
PHASE II ENVIRONMENTAL SITE INVESTIGATION

for

**46-81 METROPOLITAN AVENUE
46-81 Metropolitan Avenue,
Queens, NY 11385**

Prepared for:

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Prepared by:

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**April 13, 2021
170663101**

LANGAN

13 April 2021

Mr. Brett Richer
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Pier 1, Bay 1
San Francisco, California 94111

**Subject: Phase II Environmental Site Investigation
46-81 Metropolitan Avenue
Queens, New York
Langan Project: 170663101**

Dear Mr. Richer:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) is submitting the enclosed *Phase II Environmental Site Investigation (ESI) – 46-81 Metropolitan Avenue, Queens, New York*. Our scope of services for this project consisted of advancing exploratory soil borings, installing groundwater monitoring wells and soil vapor sampling points, and collecting and analyzing soil, groundwater, soil vapor and ambient air samples.

We appreciate the opportunity to assist you with this project. If you have questions or need information clarified, please call Mr. Andrew Kerr at (510) 874-7015.

Sincerely,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.



Andrew Kerr, P.G. (Calif)
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Robert (Rory) S. Johnston, P.E.
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1.0 INTRODUCTION

This Phase II Environmental Site Investigation (ESI) was performed for the property located at 46-81 Metropolitan Avenue (the Site). The Site is a 4.5-acre, irregularly-shaped parcel of land in the Maspeth neighborhood of Queens, New York, and is bound by Newtown Creek to the north; a parking lot, meat distributor, café and liquor store to the east; Metropolitan Avenue to the south; and a concrete supplier to the west. A site location map is provided as **Figure 1** and a sampling location plan is provided as **Figure 2**.

Prior to the Phase II ESI, Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan) prepared a draft Phase I Environmental Site Assessment (ESA) for the Site in March 2021. The results of the assessment identified two Recognized Environmental Conditions (RECs) and one Business Environmental Risk (BER) as described in Section 2.2.

This Phase II ESI was performed to obtain additional environmental information regarding the two RECs. This summary report describes the scope of services conducted, the results of the investigation, and the current overall understanding of Site conditions. Background information is presented below, with additional details outlined in the Phase I ESA report (Langan, 2021).

2.0 BACKGROUND

2.1 Site Description

The Site comprises Queens County Tax Block 2611, Lot 71, and is located in an industrial and commercial section of the Maspeth neighborhood of Queens. The Site is developed with a one-story bus maintenance building with an attached two-story office building, four office trailers, and an asphalt parking lot. The Site is at an elevation of about 5 to 10 feet above mean sea level (msl), and slopes northwest towards Newtown Creek.

According to the January 14, 2021 ALTA/NSPS Land Title Survey, prepared by Dynamic Survey, LLC, a 50-foot-wide City of New York subsurface water tunnel easement runs through the Site diagonally from southwest to northeast, 400 to 800 feet below mean sea level (msl). The Newtown Creek adjoins the Site to the north and a bulkhead spans about 520 feet of the approximately 620-foot-long northern Site boundary. Two storm sewer outfalls are located along the bulkhead that discharge Site surface runoff into Newtown Creek. The Site is located in an AE flood zone, indicating a one percent annual chance flood risk by Federal Emergency Management Agency (FEMA).

2.2 Phase I ESA Findings

The draft Phase I ESA for Site was prepared in April 2021 by Langan. The findings of the assessment included the identification of two RECs and one BER as summarized below:

REC 1 – Documented Contamination at the Subject Property

- Previous reports indicate that at least one closed-in-place underground storage tank (UST), hazardous lead and petroleum-impacted soil and petroleum-impacted groundwater remain at the Site (See Section 2.3 for more detail).

REC 2 – Historical Use of Adjoining and Surrounding Properties

- Previous reports indicate that petroleum releases associated with historical operations at the western adjoining property (Lot 35), an oil distribution facility with eight 110,000- to 400,000-gallon fuel oil tanks from 1924 to 2006, have impacted groundwater at the Site.

BER 1 – Historic Fill

Additional detail regarding these findings is provided in the draft Phase I ESA report.

The purpose of this Phase II ESI was to collect additional information regarding the RECs.

2.3 Previous Investigation Findings

Previous Phase II Subsurface Investigation and Spill Closure activities were conducted by EnviroTrac in 2019 and 2020 (EnviroTrac, 2019, 2020). Information regarding these activities is discussed in the above-referenced draft Phase I ESA and is also summarized below:

- Historic fill was identified from 0 to 10 feet below grade surface (bgs). Groundwater was encountered at 3 to 11 feet bgs.
- Both total lead and hazardous lead was identified at the Site in historic fill at concentrations above the New York State Department of Environmental Conservation (NYSDEC) Title 6 New York Codes, Rules and Regulations (6 NYCRR) Part 375 Restricted Use Commercial (RUC) and Restricted Use Industrial (RUI) Soil Cleanup Objectives (SCOs), and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste, respectively.
- Petroleum-related semivolatile organic compounds (SVOCs) were identified above RUC SCOs in soil samples and above the NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water (NYSDEC SGVs) in groundwater samples in the northwestern and southern portions of the Site. Field observations identified free product or LNAPL (light non-aqueous phase liquid) and in wells and soil staining in soil borings along the western Site boundary. The observations resulted in the assignment of NYSDEC Spill

No. 1811650 to the Site on February 22, 2019. The spill was attributed to a petroleum leak from aboveground storage tanks at the west-adjointing property, and was closed by NYSDEC on January 27, 2020 after a review of analytical data.

3.0 PHASE II EVALUATIONS

3.1 Scope and Timing

Langan completed the following scope of services between February 10 and March 3, 2021:

- Conducted a geophysical survey including preclearing of boring locations and investigating for the potential presence of USTs
- Advanced 16 soil borings to a maximum depth of 16 feet bgs and collected 16 soil samples
- Installed 7 temporary groundwater monitoring wells and collected 7 groundwater samples
- Installed 3 additional temporary wells in the northwestern corner of the Site, adjacent to the bulkhead, to attempt to provide information on the presence of LNAPL
- Installed 1 sub-slab vapor point and 5 soil vapor points, and collected 1 sub-slab vapor, 5 soil vapor, and 1 ambient air sample

A summary of the analysis performed on soil, groundwater, sub-slab vapor, soil vapor, and ambient air samples is presented in **Table 1**, and the location of the completed investigation points is shown in **Figure 2**.

3.2 Field Investigation Methods

The field investigation methods used to complete the Phase II ESI are summarized below. The activities are described in the general order of completion.

Pre-investigation Tasks

Borings, monitoring wells and sub-slab sample points were located to obtain additional information on RECs identified in the draft Phase I ESA and on data gaps identified in Phase II Subsurface Investigation and Spill Closure activities performed by others (EnviroTrac, 2019, 2020). Tentative locations of each were spray-painted on finished surfaces at the Site.

Geophysical

Prior to intrusive drilling activities, Hager-Richter Geoscience Inc. (Hager-Richter) of Fords, New York conducted a geophysical survey throughout accessible areas of the Site on February 10, 11 and 17, 2021. The geophysical survey was observed by Langan field staff and included the use of ground penetrating radar (GPR) and electromagnetic (EM) detectors to locate potential subsurface utilities, USTs and subsurface structures and to clear proposed boring locations. Borings were relocated as

necessary to avoid buried structures and for drill-rig accessibility. The geophysical report prepared by Hager-Richter is included in **Appendix A**.

Exploratory Borings and Soil Sampling

Sixteen borings were drilled on February 11, 12, and 16, 2021 by AARCO using a Geoprobe 7822DT direct push drilling rig. The boreholes were advanced by hydraulically pushing a 2.25-inch diameter stainless steel MacroCore sampler containing 4-foot-long acetate liners into the subsurface to 16 feet bgs. Groundwater was typically encountered at 3.5 to 7.5 feet bgs.

Soils were logged based on the Unified Soil Class System (USCS) system and boring logs are included in **Appendix B**. Soils retrieved from the acetate liner were screened for the presence of VOCs using a photo-ionization detector (PID) with a 10.6 eV bulb and calibrated with 100 parts per million (ppm) isobutylene reference gas.

Sixteen soil samples were collected by placing the soil from the chosen sample depth into laboratory-provided containers. Sample jars were secured in plastic bags or laboratory-provided, bubble-wrap pouches and stored in a cooler with ice for transport to the analytical laboratory.

Temporary Monitoring Wells, Groundwater Sampling and Gauging

Six borings were converted to temporary wells (MW02, MW03, MW05, MW09, MW11 and MW12) by inserting a 1-inch diameter slotted poly-vinyl chloride (PVC) casing into select soil boreholes. The temporary well annuli were packed with No. 2 sand. One groundwater monitoring well, MW01 (installed within SB01), was finished with a flush-mount well cover and left in place to continue monitoring identified LNAPL after installation. MW01 was constructed with about 10 feet of 2-inch diameter, 0.02-inch slotted schedule (SCH) 40 PVC well screen threaded to 2-inch diameter SCH 40 PVC that extended to surface grade. The well screen was set to straddle the observed groundwater table. The well was completed with a clean sand filter to above the well screen, followed by a 0.5-foot-thick hydrated bentonite seal, grout to surface, and an expandable well plug and bolted-down manhole cover.

Three additional temporary 1-inch PVC wells (TW01, TW02, and TW03) were installed on March 3, 2021 to obtain information on potential LNAPL.

The monitoring wells were gauged with an oil/water interface probe to the nearest 0.01 foot to evaluate for the presence of LNAPL and to measure static groundwater levels prior to sampling; the oil/water interface probe was cleaned with an Alconox solution with double rinses between monitoring wells. Prior to sampling, a peristaltic pump fitted with dedicated, disposable polyethylene tubing was used to purge each groundwater monitoring well except MW05, which was purged with bailers. Monitoring well effluent was pumped into a flow-through cell with a water quality monitoring probe attached. The probe was used to monitor pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential.

Groundwater samples were analyzed from seven well locations, with samples collected into laboratory-supplied sample jars using low-flow techniques after the parameters stabilized, to the extent practical. Due to the presence of LNAPL within two wells, MW02 and MW05, the wells were purged and bailed, respectively, and sampled without the use of the water quality monitoring probe and collection of parametric data. Temporary wells TW01, TW02 and TW03 were installed to obtain data on the presence of LNAPL, and were developed with a submersible pump and gauged with an interface probe, but were not sampled.

Sample jars were secured in plastic bags or laboratory-provided, bubble-wrap pouches and stored in a cooler with ice for transport to the analytical laboratory. Groundwater sampling logs are provided in **Appendix C**.

Sub-Slab and Soil Vapor Sampling

One sub-slab soil vapor probe (SSV01) was installed directly beneath the concrete slab in the on-site building. Five soil vapor probes (SV01 through SV05) were installed to 2 feet bgs at exterior areas of the Site. Sample probes were installed in accordance with the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, with subsequent updates). Soil vapor sample locations consisted of the installation of a 2-inch long polyethylene screen implant threaded into 1/4-inch Teflon tubing extending to the surface. After the sampling points were placed, boreholes were backfilled with clean sand around the implants, immediately followed by a hydrated bentonite seals to prevent ambient air infiltration.

The seal integrity was checked before and after sample collection using a shroud and helium detector. Prior to sample collection, a minimum of three probe assembly volumes of air were purged using a MultiRAE gas monitor, calibrated for a flow rate of 0.2 liters per minute (L/min). Following purging, the soil vapor samples were drawn through the polyethylene tubing into laboratory supplied Summa[®] canisters under vacuum pressure. The Summa[®] canisters were equipped with flow regulators calibrated for a two-hour sampling period. Sub-slab and soil vapor construction and sampling logs are provided in **Appendix D**.

An ambient air sample was also collected as a control sample. The sample was collected at a height above the ground to represent the breathing zone (about 3.5 feet) in the parking lot area north of the Site building. Indoor air samples were not collected as part of this investigation.

Laboratory Analysis

The soil, groundwater, sub-slab vapor, soil vapor, and ambient air samples were transported to an NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory (Alpha Analytical, Inc. of Westborough, MA [ELAP ID #11148]). Sixteen soil samples were analyzed for target compound list (TCL) VOCs, TCL SVOCs, and/or Total Analyte List (TAL) Metals. Seven groundwater

samples were analyzed for TCL VOCs, TCL SVOCs and TAL Metals (total and dissolved). Five soil vapor, one sub-slab vapor, and one ambient air sample were analyzed for TO-15 VOCs.

4.0 RESULTS

4.1 Geophysical Survey

The geophysical survey was conducted adjacent to the garage building, along the western Site boundary, and in the northeastern corner of the Site, with the exception of areas beneath parked vehicles. Boring locations were surveyed to clear obstructions. The geophysical survey identified anomalies suggestive of the following:

- Buried metal or reinforced concrete in areas surrounding the garage building and along the western Site boundary.
- Unidentified utilities throughout the Site.

Anomalies indicative of potential USTs were not observed.

4.2 Field Observations

The following observations were noted during investigation field activities:

- Historic fill is present to depths ranging from about 4 to 9 feet bgs across the Site, and generally consists of sand with varying amounts of gravel, brick, slag, glass, and coal ash. The fill is underlain by native soil to the boring terminus (16 feet bgs), which consists of varying amounts of clay, peat, sand and silt.
- Groundwater is present at a depth of about 3.5 to 7.5 feet bgs. Groundwater flow is presumed to be to the north towards Newtown Creek, and may be tidally influenced. Flow direction and tidal influence were not evaluated as part of this Phase II ESI.
- Petroleum-like odors, staining, and/or elevated PID readings were noted in seven of the sixteen soil borings and during installation of the three temporary monitoring wells, including SB01 from 1.5 to 10 feet bgs, SB02 from 3 to 16 feet bgs, SB04 from 2 to 16 feet bgs, SB05 from 1 to 16 feet bgs, SB06 from 1 to 16 feet bgs, SB11 from 5 to 7 feet bgs, and SB15 from 3 to 16 feet bgs. Nine of the ten borings/wells were located in the northwestern portion of the Site, and one boring was located near the garage building in the southern portion of the Site.
- LNAPL was observed in three wells: about 1-inch thick at MW05 along the western Site boundary, about 0.25-inch thick at TW03, and globules at MW02 along the north-central Site boundary. Elevated PID readings were noted during groundwater sampling and gauging at MW01, MW02, MW05, TW01, TW02 and TW03, in the northwestern portion of the Site.

4.3 Soil Analytical Results

Soil analytical results from sixteen soil samples are summarized in **Table 2**. The table includes applicable reference soil cleanup objectives. Laboratory analytical reports are attached in **Appendix E**.

The laboratory analytical results are summarized below:

- Five SVOCs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene) were detected at concentrations above the Restricted Use Commercial (RUC) SCO and/or Restricted Use Industrial (RUI) SCO (bolded):
 - Benzo[a]anthracene: **SB09**
 - Benzo[a]pyrene: **SB02, SB03, SB07, SB08, SB09, SB11, SB13** and **SB14**
 - Benzo[b]fluoranthene: **SB09**, SB11 and **SB13**
 - Dibenz[a,h]anthracene: **SB09**, SB11 and **SB13**
 - Indeno[1,2,3-cd]pyrene: **SB09** and SB13
- Four metals (arsenic, copper, lead and mercury) were detected at concentrations above the RUC SCO and/or RUI SCO (bolded):
 - Arsenic: **SB01, SB03, SB08, SB13** and **SB16**
 - Copper: SB01 and SB08
 - Lead: SB03, **SB09** and SB13
 - Mercury: SB01, **SB02**, SB03, **SB06**, SB13, SB14 and SB16
- No VOCs were detected above the RUC or RUI SCOs.

4.4 Groundwater Analytical Results

Groundwater analytical results from the seven groundwater samples are summarized in **Table 3**. The tables include applicable reference standards and guidance values. Laboratory analytical reports are attached in **Appendix E**.

The laboratory analytical results are summarized below:

- Five petroleum-related VOCs, including 1,2,4,5-tetramethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, and sec-butylbenzene were detected at concentrations above the SGVs in the sample from groundwater monitoring well MW05. The other samples did not contain VOCs above SGVs.

- Six SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene, were detected at concentrations above the SGVs in all samples.
- Eleven metals, including antimony, arsenic, barium, chromium, copper, iron, lead, magnesium, manganese, mercury, and sodium, were detected at concentrations above the SGVs in unfiltered groundwater samples:
 - Antimony: MW02 and MW03
 - Arsenic: MW05
 - Barium: MW05
 - Chromium: MW05
 - Copper: MW05
 - Iron: all samples
 - Lead: all samples
 - Magnesium: MW02, MW05 and MW09
 - Manganese: MW03, MW05, MW11 and MW12
 - Mercury: MW01, MW02 and MW05
 - Sodium: all samples
 - Thallium: MW05
- Five metals, including antimony, iron, magnesium, manganese, and sodium, were detected at concentrations above the SGVs in filtered groundwater samples:
 - Antimony: MW03
 - Iron: MW02, MW03, MW05, MW09, MW11 and MW12
 - Magnesium: MW02
 - Manganese: MW03, MW11 and MW12
 - Sodium: all samples

4.5 Sub Slab and Soil Vapor Analytical Results

Analytical results from one sub-slab vapor sample, five soil vapor samples, and one ambient air sample are summarized in **Table 4**. The tables include applicable reference guidance values. A copy of the laboratory analytical reports is attached in **Appendix E**.

An evaluation of vapor results is below:

- New York State currently does not have standards or criteria for allowable concentrations of VOCs in soil vapor. In lieu of regulatory standards, Decision Matrices published in the 2006 NYSDOH Soil Vapor Intrusion Guidance, updated in 2017, were used to evaluate sub-slab vapor concentrations. NYSDOH Decision Matrices (Matrices A, B, and C) address the compounds tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene, cis-1,2-dichloroethene, vinyl chloride, methylene chloride, and carbon tetrachloride. The matrix evaluation relies on both soil vapor and indoor air data. Indoor air samples were not collected as part of this investigation; however, the matrices provide a minimum soil vapor concentration above which monitoring and/or mitigation is recommended, regardless of indoor air concentrations.
 - TCE was detected at a concentration of 10 $\mu\text{g}/\text{m}^3$ at SSV01, a concentration for which the NYSDOH Decision Matrix A recommendation ranges from “no further action”, to “monitor” or “mitigate”, dependent on corresponding indoor air concentrations.
 - PCE was detected at 188 $\mu\text{g}/\text{m}^3$ at SSV01, a concentration for which the NYSDOH Decision Matrix B recommendation ranges from “no further action”, to “monitor” or “mitigate”, dependent on corresponding indoor air concentrations.
 - The remaining compounds evaluated using the NYSDOH Decision Matrices were not detected in the soil vapor or sub-slab vapor samples.

5.0 FINDINGS

The following is a summary of findings from the Phase II ESI:

- LNAPL was observed in three wells: about 1-inch thick at MW05 along the western Site boundary, about 0.25-inch thick at TW03, and globules at MW02 along the north-central Site boundary. Elevated PID readings were noted during groundwater sampling and gauging at MW01, MW02, MW05, TW01, TW02 and TW03, in the northwestern portion of the Site.
- One or more of five SVOCs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene) were detected above the RUC SCO in soil samples throughout the Site, with the highest concentrations in the samples from boring SB09 (total SVOCs = 257.6 mg/kg), located north of the garage building in the center of the Site, and boring SB13 (total SVOCs = 152 mg/kg), located in the northeastern corner of the Site.
- One or more of four metals (arsenic, copper, lead and mercury) were detected above the RUC SCO in nine of sixteen soil samples, with the highest concentrations in the samples from SB09 and SB13, as well as SB01 and SB03 in the northwestern corner of the Site.

- Petroleum-related VOCs were detected in groundwater in one monitoring well (MW05, in the northwestern part of the Site) above NYSDEC SGVs, including 1,2,4,5-tetramethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, and sec-butylbenzene.
- Petroleum-related SVOCs were detected in all groundwater above NYSDEC SGVs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.
- Metals were detected in all groundwater samples above NYSDEC SGVs, including antimony, arsenic, barium, chromium, copper, iron, lead, magnesium, manganese, mercury, sodium and thallium.
- Dissolved metals were detected in all groundwater samples above NYSDEC SGVs, including antimony, iron, magnesium, manganese and sodium.
- Detected concentrations of two chlorinated VOCs (PCE and TCE) yielded recommendations ranging from “no further action” to “mitigate” (absent indoor air concentrations) when applied to the NYSDOH Decision Matrices.

The results of the current Phase II ESI, when combined with existing understanding of Site conditions from the early investigation work, demonstrate the following:

1. Metals and SVOCs were identified in the historic fill layer at concentrations above the RUC and RUI SCOs, and are attributed to the quality of historic fill at the Site. In this investigation, metals including lead and mercury were detected at greater than 20 times the limits outlined in the EPA RCRA Characteristics of Hazardous Waste, indicating there is potential for soil analysis to fail the RCRA guidance during the Toxicity Characteristic Leaching Procedure (TCLP) sampling, which would classify excavated soil as a hazardous waste. In addition, a previous investigation identified soil which failed RCRA TCLP guidance for lead in the northeast corner of the Site; if excavated, this soil would require disposal as a hazardous waste.
2. Two areas of petroleum impacts were identified via field observations and analytical soil, groundwater and soil vapor data in the northwest portion and southern portion of the Site. Impacts in the northwestern part of the Site were evidenced by field observations including visual observation of LNAPL, elevated PID readings and soil staining and appear to have migrated onto the property from the west-adjointing property, a former oil terminal. A spill listing (NYSDEC Spill No. 1811650) was opened during a previous investigation and subsequently closed after impacts were attributed to the west-adjointing property. Impacts in the southern part of the Site are attributed to the past use as a vehicle filling station with at least one UST which leaked. Impacts were further evidenced by exceedances of RUC and

RUI SCOs in soil, and NYSDEC SGVs in groundwater, in addition to end-point soil samples collected in a previous investigation related to UST removal at the location.

3. Chlorinated VOCs are present in sub-slab soil vapor at the garage building in the southern portion of the Site.

Together, these data document releases of hazardous substances and petroleum to the environment that have originated from both on-site (historic fill placement, historical site use and petroleum bulk storage) and off-site (adjoining oil terminal and active spill listing) sources:

- The west-adjoining off-site release, due to the past use as a petroleum storage terminal, represents the only identified, known, and ongoing source of impacts at northwestern portion of the Site; if not remediated at the adjoining property source, a cut off-wall between the two properties should be considered in the area of the release.
- Separate phase LNAPL, assumed to be from the west-adjoining property, was identified along the bulkhead in the northwestern portion of the Site and represents a potential migration risk to the adjoining surface water body (Newtown Creek); therefore, the on-site LNAPL should be contained and/or remediated to prevent migration from the Site.
- The UST in the southern portion of the Site should be removed and identified petroleum impacts should be remediated.
- Historic fill will require characterization during future Site redevelopment; data indicate off-site disposal may include hazardous waste from metals impacted soil. Consideration should be given to capping the Site to preclude direct exposure risk to future site occupants if historic fill remains at the Site.
- Finally, chlorinated solvents in soil vapor present a vapor intrusion risk to current and future building occupants. Vapor intrusion risk should be further evaluated as part of future Site development and mitigation should be designed into future buildings, as necessary.

REFERENCES

1. Draft Phase I Environmental Site Assessment, dated March, 2021, prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan)
2. Phase I Environmental Site Assessment, dated December 5, 2018, prepared by Cashin Associates, P.C. (Cashin)
3. Phase II Subsurface Investigation Report, dated March 6, 2019, prepared by EnviroTrac Environmental Services (EnviroTrac)
4. Request for Spill Closure Report, dated January 2, 2020, prepared by EnviroTrac
5. Spill Closure Confirmation Letter, dated January 27, 2020, prepared by NYSDEC
6. Well Decommissioning Report, dated February 7, 2020, prepared by EnviroTrac

TABLES

Table 1

Sample Summary

Phase II Environmental Site Investigation

46-81 Metropolitan Avenue

Queens, New York

Langan Project No. 170663101

Sample No.	Sample ID	Type	Sample Depth/ Screened Interval (feet bgs)	Time	Date	Boring	Sampling Rationale	AOC	Analysis
SOIL									
1	SB01_5-6	Grab	5 to 6	11:00	2/11/2021	SB-1	Greatest degree of observable impacts/groundwater interface	Investigate AOCs 2 and 6	Part 375/TCL VOCs and SVOCs, TAL Metals
2	SB02_7-9		7 to 9	11:30	2/11/2021	SB-2			
3	SB03_6-8		6 to 8	15:30	2/11/2021	SB-3			
4	SB04_9-11		9 to 11	13:40	2/11/2021	SB-4			
5	SB05_13-15		13 to 15	12:45	2/11/2021	SB-5			
6	SB06_6-8		6 to 8	14:10	2/11/2021	SB-6		Investigate AOC 6	
7	SB07_5-7		5 to 7	10:40	2/12/2021	SB-7			
8	SB08_6-8		6 to 8	13:45	2/12/2021	SB-8		Investigate AOCs 1,4 and 6	
9	SB09_3-5		3 to 5	14:30	2/12/2021	SB-9			
10	SB10_6-8		6 to 8	15:15	2/12/2021	SB-10			
11	SB11_5-7		5 to 7	13:20	2/16/2021	SB-11			
12	SB12_3-5		3 to 5	12:40	2/16/2021	SB-12			
13	SB13_5-7		5 to 7	12:10	2/12/2021	SB-13		Investigate AOCs 3 and 6	
14	SB14_6-8		6 to 8	11:30	2/12/2021	SB-14			
15	SB15_6-8		6 to 8	15:45	2/12/2021	SB-15		Investigate AOCs 2 and 6	
16	SB16_3-5		3 to 5	14:15	2/16/2021	SB-16			
GROUNDWATER									
1	MW01_021621	Grab	2 to 12	11:30	2/16/2021	MW-1	Middle of observed water column based on initial gauging results	Investigate AOC 2	Part 375/TCL VOCs and SVOCs, TAL Metals
2	MW02_021621		3 to 13	9:30	2/16/2021	MW-2			
3	MW03_021221		3 to 13	11:51	2/12/2021	MW-3			
4	MW05_021621		3 to 13	14:45	2/16/2021	MW-5		Investigate AOCs 1 and 4	
5	MW09_021221		3 to 13	15:25	2/12/2021	MW-9			
6	MW11_021621		3 to 13	15:05	2/16/2021	MW-11			
7	MW12_021621		3 to 13	13:30	2/16/2021	MW-12			
SUB-SLAB VAPOR AND SOIL VAPOR									
1	SV01_021621	Grab	2	12:00	2/16/2021	SV-1	Soil vapor (2 feet above groundwater)	Investigate AOC 5	TO-15 VOCs
2	SV02_021621		2	12:10	2/16/2021	SV-2			
3	SV03_021621		2	12:46	2/16/2021	SV-3			
4	SV04_021621		2	12:32	2/16/2021	SV-4			
5	SV05_021621		2	13:47	2/16/2021	SV-5			
6	SSV01_021621		0.83	13:07	2/16/2021	SSV-1	Sub-slab vapor (2 inches beneath building slab)	Investigate AOCs 1, 4 and 5	
AMBIENT AIR									
1	AA01_021621	Grab	-	12:13	2/16/2021	AA-1	Ambient Air (3 to 5 feet above surface)	Investigate AOCs 1, 2, 3, 4, 5	TO-15 VOCs

- Notes:

1. All volatile soil samples to be collected using TerraCore sampler kits.

2. AOC 1 = UST location and former auto-repair/gasoline filling activities

3. AOC 2 = Petroleum spill from adjoining property

4. AOC 3 = Hazardous lead in soil

5. AOC 4 = CVOC use at garage location

6. AOC 5 = Soil vapor concerns throughout site

7. AOC 6 = Historic fill throughout site
8. VOC = Volatile Organic Compound

9. SVOC = Semi-volatile Organic Compound

10. TCL = Target Compound List

11. TAL = Total Analyte List

12. UST = Underground storage tank

13. CVOC = Chlorinated Volatile Organic Compound

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results Summary

46-81 Metropolitan Avenue
Queens, New York
Langan Project No.: 170663101

Location	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs	SB01 SB01 5-6 L2106775-01 2/11/2021	SB02 SB02 7-9 L2106775-02 2/11/2021	SB03 SB03 6-8 L2106775-03 2/11/2021	SB04 SB04 9-11 L2106775-04 2/11/2021	SB05 SB05 13-15 L2106775-05 2/11/2021	SB06 SB06 6-8 L2106775-06 2/11/2021	SB07 SB07 5-7 L2107086-04 2/12/2021	SB08 SB08 6-8 L2107086-02 2/12/2021	SB09 SB09 3-5 L2107086-05 2/12/2021	SB10 SB10 6-8 L2107086-03 2/12/2021	SB11 SB11 5-7 L2107477-05 2/16/2021	SB12 SB12 3-5 L2107477-04 2/16/2021	SB13 SB13 5-7 L2107086-07 2/12/2021	SB14 SB14 6-8 L2107086-06 2/12/2021	SB15 SB15 6-8 L2107086-01 2/12/2021	SB16 SB16 3-5 L2107477-06 2/16/2021																
Sample ID																																		
Laboratory ID																																		
Sample Date																																		
Sample Depth (feet bgs)																																		
Volatile Organic Compounds (mg/kg)																																		
1,2,4,5-Tetramethylbenzene	~	~	0.18	U	3	0.0054	U	14	3.5	12	0.0019	U	0.0002	J	0.0028	U	0.0017	U	0.047	J	0.13	U	0.003	U	0.0027	U	7.4	0.003	U	0.003	U			
1,2,4-Trimethylbenzene	190	380	0.18	U	0.26	0.0054	U	0.47	U	0.22	U	0.22	U	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.082	J	0.13	U	0.003	U	0.0027	U	1.4	0.003	U		
1,3,5-Trimethylbenzene (Mesitylene)	190	380	0.18	U	0.13	J	0.0054	U	0.47	U	0.22	U	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.042	J	0.13	U	0.003	U	0.0027	U	0.061	J	0.003	U		
1,4-Diethyl Benzene	~	~	0.037	J	0.26	0.0054	U	0.47	U	0.42	0.22	U	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.069	J	0.13	U	0.003	U	0.0027	U	2	0.003	U			
4-Ethyltoluene	~	~	0.046	J	0.16	J	0.0054	U	0.47	U	0.22	U	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.12	J	0.13	U	0.003	U	0.0027	U	0.17	0.003	U			
Acetone	500	1,000	0.88	U	0.91	U	0.5	2.3	U	1.1	U	1.1	U	0.034	0.048	0.026	0.014	0.082	U	0.034	0.22	0.24	0.53	U	0.094									
Benzene	44	89	0.044	U	0.045	U	0.0014	U	0.12	U	0.054	U	0.054	U	0.00016	J	0.00044	U	0.0007	U	0.00044	U	0.33	0.033	U	0.00076	U	0.0067	U	0.026	U	0.00076	U	
Carbon Disulfide	~	~	0.88	U	0.91	U	0.027	U	2.3	U	1.1	U	1.1	U	0.0074	J	0.0088	U	0.014	U	0.0087	U	7.6	0.65	U	0.015	U	0.013	U	0.53	U	0.015	U	
Cymene	~	~	0.088	U	0.28	0.00032	J	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.0096	J	0.065	U	0.0015	U	0.0013	U	0.53	0.0015	U		
Ethylbenzene	390	780	0.088	U	0.013	J	0.0027	U	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.12	0.065	U	0.0015	U	0.0013	U	0.059	0.0015	U		
Isopropylbenzene (Cumene)	~	~	0.088	U	0.095	0.0027	U	0.19	J	0.63	0.18	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.013	J	0.065	U	0.0015	U	0.0013	U	1.7	0.0015	U				
M,P-Xylene	~	~	0.18	U	0.059	J	0.0054	U	0.47	U	0.22	U	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.18	0.13	U	0.003	U	0.0027	U	0.052	J	0.003	U			
Methyl Ethyl Ketone (2-Butanone)	500	1,000	0.88	U	0.91	U	0.099	2.3	U	1.1	U	1.1	U	0.0021	J	0.0078	J	0.0038	J	0.0087	U	0.82	U	0.65	U	0.055	0.063	0.53	U	0.02				
Naphthalene	500	1,000	0.82	0.63	0.011	U	2.1	0.87	0.47	0.0038	U	0.001	J	0.0056	U	0.0035	U	32	0.26	U	0.006	U	0.0054	U	6.3	0.006	U							
n-Butylbenzene	500	1,000	0.068	J	0.66	0.0027	U	3.3	1.3	2	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.082	U	0.065	U	0.0015	U	0.0013	U	4.1	0.0015	U					
n-Propylbenzene	500	1,000	0.046	J	0.055	J	0.0027	U	0.23	U	1.3	0.096	J	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.082	U	0.065	U	0.0015	U	0.0013	U	3.6	0.0015	U		
o-Xylene (1,2-Dimethylbenzene)	~	~	0.088	U	0.044	J	0.0027	U	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.024	J	0.065	U	0.0015	U	0.0013	U	0.13	0.0015	U	
Sec-Butylbenzene	500	1,000	0.046	J	0.73	0.0027	U	2.7	0.93	2.6	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.082	U	0.065	U	0.0015	U	0.0013	U	2.4	0.0015	U					
Styrene	~	~	0.088	U	0.091	U	0.0027	U	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.022	J	0.065	U	0.0015	U	0.0013	U	0.053	U	0.0015	U
T-Butylbenzene	500	1,000	0.045	J	0.19	0.0054	U	0.74	0.2	J	0.6	0.0019	U	0.0018	U	0.0028	U	0.0017	U	0.16	U	0.13	U	0.003	U	0.0027	U	0.53	0.00041	J				
Tert-Butyl Methyl Ether	500	1,000	0.18	U	0.18	U	0.0016	J	0.47	U	0.22	U	0.0019	U	0.0018	U	0.00039	J	0.0009	J	0.16	U	0.0024	0.0013	J	0.0027	U	0.1	U	0.00034	J			
Toluene	500	1,000	0.088	U	0.091	U	0.0027	U	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.26	0.065	U	0.0015	U	0.0013	U	0.053	U	0.0015	U	
Total Xylenes	500	1,000	0.088	U	0.1	J	0.0027	U	0.23	U	0.11	U	0.11	U	0.00095	U	0.00088	U	0.0014	U	0.00087	U	0.2	J	0.065	U	0.0015	U	0.0013	U	0.18	J	0.0015	U
Semivolatile Organic Compounds (mg/kg)																																		
2,4-Dinitrotoluene	~	~	4.8	3.2	U	1	U	2.7	U	2.6	U	6	U	0.2	U	0.19	U	1.1	U	0.19	U	0.95	U	0.21	U	1.4	U	0.22	U	0.19	U	0.22	U	
2-Methylnaphthalene	~	~	1.1	J	0.79	J	1.2	U	3.2	U	3.2	U	18	0.043	J	0.096	J	0.53	J	0.23	U	3.9	0.25	U	0.24	J	0.065	J	6.5	0.26	U			
2-Methylphenol (o-Cresol)	500	1,000	3.4	U	3.2	U	1	U	2.7	U	2.6	U	6	U	0.2	U	0.19	U	1.1	U	0.19	U	0.16	J	0.21	U	1.4	U	0.22	U	0.19	U	0.22	U
3 & 4 Methylphenol (m&p Cresol)	500	1,000	4.9	U	4.7	U	0.6	J	3.8	U	3.8	U	8.7	U	0.072	J	0.28	U	1.6	U	0.27	U	0.5	J	0.3	U	1.6	J	0.85	0.27	U	0.31	U	
Acenaphthene	500	1,000	3.5	2.6	0.45	J	0.98	J	0.42	J	1.3	J	0.27	0.11	J	3.8	0.15	U	0.55	J	0.045	J	0.88	J	0.44	0.25	0.063	J						
Acenaphthylene	500	1,000	1.4	J	1.8	J	0.8	U	0.82	J	0.47	J	4.8	U	0.16	U	0.089	J	0.86	U	0.15	U	1.8	0.16	U	1.1	U	0.099	J	0.15	U	0.17	U	
Acetophenone	~	~	3.4	U	3.2	U	1	U	2.7	U	2.6	U	6	U	0.2	U	0.19	U	1.1	U	0.19	U	0.34	J	0.21	U	1.4	U	0.22	U	0.19	U	0.22	U
Anthracene	50																																	

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results Summary

46-81 Metropolitan Avenue
Queens, New York
Langan Project No.: 170663101

Notes:

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Commercial and Restricted Use Industrial Soil Cleanup Objectives (SCO).
2. Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).
3. Criterion comparisons for total chromium are provided for reference. Promulgated SCOs shown are for trivalent chromium.
4. Only detected analytes are shown in the table.
5. Detected analytical results above Restricted Use Commercial SCOs are bolded.
6. Detected analytical results above Restricted Use Industrial SCOs are shaded.
7. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
8. ~ = Regulatory limit for this analyte does not exist
9. bgs = below grade surface
10. mg/kg = milligrams per kilogram
11. % = percent

Qualifiers:

- J = The analyte was detected above the Method Detection Limit (MDL), but below the 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
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results Summary

46-81 Metropolitan Avenue
Queens, New York
Langan Project No.: 170663101

Location Sample ID Laboratory ID Sample Date	NYSDEC SGVs	MW01 MW01_021621 L2107477-02 2/16/2021	MW02 MW02_021621 L2107477-01 2/16/2021	MW03 MW03_021221 L2107086-09 2/12/2021	MW05 MW05_021621 L2107477-07 2/16/2021	MW09 MW09_021221 L2107086-08 2/12/2021	MW11 MW11_021621 L2107477-08 2/16/2021	MW12 MW12_021621 L2107477-03 2/16/2021
Volatile Organic Compounds (µg/L)								
1,1-Dichloroethene	5	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.34 J
1,2,4,5-Tetramethylbenzene	5	1.9 J	2.1 U	20 U	53	2 U	0.88 J	2 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	25 U	0.96 J	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	~	2 U	2 U	20 U	5.2	2 U	2 U	2 U
Acetone	50	5 U	5 U	50 U	15	5 U	5 U	5 U
Bromomethane	5	2.5 U	2.5 U	25 U	2.5 U	0.78 J	2.5 U	2.5 U
Dichlorodifluoromethane	5	5 U	2.6 J	50 U	5 U	5 U	5 U	5 U
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	25 U	13	2.5 U	2.5 U	2.5 U
Naphthalene	10	1.1 J	2.5 U	25 U	7.3	2.5 U	0.88 J	2.5 U
n-Butylbenzene	5	2.5 U	2.5 U	25 U	11	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5	2.5 U	2.5 U	25 U	21	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	2.5 U	2.5 U	25 U	11	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	2.5 U	2.5 U	25 U	3	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	2.5 U	0.81 J	25 U	0.98 J	0.97 J	1 J	7.5
Trichloroethene (TCE)	5	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.66
Vinyl Chloride	2	1 U	1 U	10 U	1 U	0.11 J	1 U	0.24 J
Semivolatile Organic Compounds (µg/L)								
2-Methylnaphthalene	~	0.15	0.05 J	0.31	58	0.1 U	0.27	0.1 U
Acenaphthene	20	1.7	0.36	0.1 J	10	0.07 J	0.38	0.03 J
Acenaphthylene	~	0.36	0.18	0.04 J	11	0.1 U	0.18	0.04 J
Anthracene	50	0.86	0.21	0.07 J	7.8	0.08 J	0.26	0.09 J
Benzo(a)anthracene	0.002	0.42	0.18	0.06 J	1.5	0.52	0.3	0.55
Benzo(a)pyrene	0	0.42	0.2	0.06 J	1.3	0.61	0.31	0.63
Benzo(b)fluoranthene	0.002	0.47	0.18	0.07 J	1.2	0.63	0.34	0.64
Benzo(g,h,i)Perylene	~	0.28	0.13	0.05 J	0.97	0.35	0.22	0.31
Benzo(k)fluoranthene	0.002	0.16	0.1	0.03 J	0.38	0.27	0.15	0.26
Bis(2-ethylhexyl) phthalate	5	3 U	3 U	3 U	2.2 J	3 U	3 U	3 U
Chrysene	0.002	0.43	0.16	0.05 J	2.2	0.49	0.26	0.47
Dibenz(a,h)anthracene	~	0.06 J	0.02 J	0.1 U	0.19	0.08 J	0.05 J	0.09 J
Dibenzofuran	~	2 U	2 U	2 U	20	2 U	2 U	2 U
Fluoranthene	50	1.1	0.45	0.15	3.8	0.93	0.84	1
Fluorene	50	1.8	0.55	0.12	30	0.04 J	0.46	0.03 J
Indeno(1,2,3-cd)pyrene	0.002	0.28	0.13	0.04 J	0.75	0.38	0.25	0.34
Naphthalene	10	0.14	0.1	0.08 J	6.7	0.1 U	0.48	0.1 U
Pentachlorophenol	1	0.13 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	50	0.36	1.1	0.22	40	0.32	1.1	0.41
Pyrene	50	2.2	0.61	0.14	12	0.9	0.72	0.94
Inorganics (µg/L)								
Aluminum	~	2,250	1,340	181	23,200	989	1,710	11,500
Aluminum (Dissolved)	~	9.16 J	10.9	20	10 U	10 U	3.88 J	4.25 J
Antimony	3	1.87 J	3.56 J	6.41	2.65 J	4 U	0.49 J	1.44 J
Antimony (Dissolved)	3	4 U	4 U	6.45	1.25 J	4 U	0.46 J	0.94 J
Arsenic	25	9.17	3.28	13.44	54.96	1.23	5.01	20.94
Arsenic (Dissolved)	25	2.1	1.41	12.02	9.8	0.37 J	3.38	17.11
Barium	1,000	147.8	95.09	167.6	1,113	139.7	264.7	410.8
Barium (Dissolved)	1,000	99.86	58.54	158.7	248.3	111.3	229.3	171.9
Beryllium	3	0.16 J	0.14 J	0.5 U	1.79	0.5 U	0.5 U	0.94
Cadmium	5	0.27	0.08 J	0.09 J	2.47	0.2 U	0.09 J	0.56
Cadmium (Dissolved)	5	0.2 U	0.2 U	0.07 J	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	~	82,600	35,200	104,000	127,000	117,000	72,600	136,000
Calcium (Dissolved)	~	80,000	34,700	97,500	63,100	110,000	70,800	122,000
Chromium, Total	50	7.08	10.5	0.71 J	98.91	4.57	6.99	46.47
Chromium, Total (Dissolved)	50	0.27 J	3.25	0.2 J	1 U	1 U	0.2 J	1 U
Cobalt	~	2.22	1.44	1	29.22	0.94	1.66	14.42
Cobalt (Dissolved)	~	0.5 U	0.5 U	0.86	1.23	0.5 U	0.18 J	0.35 J
Copper	200	51.55	27.31	7.16	1,237	10.36	15.65	64.13
Copper (Dissolved)	200	1 U	1 U	0.41 J	0.79 J	1 U	0.44 J	0.4 J
Iron	300	4,910	4,420	25,700	77,000	7,840	17,800	44,700
Iron (Dissolved)	300	226	1,550	24,100	10,400	5,550	14,300	15,600
Lead	25	133.9	233.7	55.75	6,776	43.62	30.93	218
Lead (Dissolved)	25	1 U	1 U	24.12	0.82 J	1 U	1 U	1 U
Magnesium	35,000	13,100	40,200	22,600	47,600	40,800	16,300	26,300
Magnesium (Dissolved)	35,000	12,300	47,000	21,900	20,800	34,700	17,900	19,500
Manganese	300	138	212	459.7	977	234.2	769.5	2,250
Manganese (Dissolved)	300	96.1	195.9	428.2	205.9	204.5	747.9	1,916
Mercury	0.7	2.91	0.84	0.2 U	3.12	0.2 U	0.39	0.26
Nickel	100	7	3.25	6.79	61.04	2.1	4.34	28.02
Nickel (Dissolved)	100	2 U	2 U	6.13	2.93	2 U	0.96 J	1.91 J
Potassium	~	26,600	24,100	21,500	20,200	8,840	40,700	14,100
Potassium (Dissolved)	~	25,600	23,800	21,200	16,600	8,500	37,200	12,000
Selenium	10	5 U	5 U	5 U	8.93	5 U	5 U	5.64
Selenium (Dissolved)	10	5 U	5 U	5 U	5 U	5 U	5 U	2.38 J
Silver	50	0.4 U	0.16 J	0.4 U	2.74	0.4 U	0.4 U	0.16 J
Sodium	20,000	50,700	111,000	149,000	122,000	68,300	96,100	132,000
Sodium (Dissolved)	20,000	42,000	93,800	170,000	100,000	75,600	76,800	111,000
Thallium	0.5	0.18 J	0.21 J	1 U	0.57 J	1 U	1 U	0.31 J
Thallium (Dissolved)	0.5	1 U	1 U	1 U	0.17 J	0.15 J	1 U	1 U
Vanadium	~	9.04	18.33	2.53 J	92.32	4.2 J	5.99	46.56
Vanadium (Dissolved)	~	5 U	5.62	1.64 J	5 U	5 U	5 U	5 U
Zinc	2,000	84.64	47.03	53.6	1,083	12.89	36.1	225.3
Zinc (Dissolved)	2,000	10 U	10 U	39.26	6.46 J	10 U	10 U	7.87 J

Notes:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").
- Only detected analytes are shown in the table.
- Detected analytical results above NYSDC SGVs are bolded and shaded.
- Analytical results with reporting limits (RL) above NYSDC SGVs are italicized.
- ~ = Regulatory limit for this analyte does not exist
- µg/l = micrograms per liter

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the 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 4
Phase II Environmental Site Investigation Report
Soil Vapor Sample Analytical Results Summary

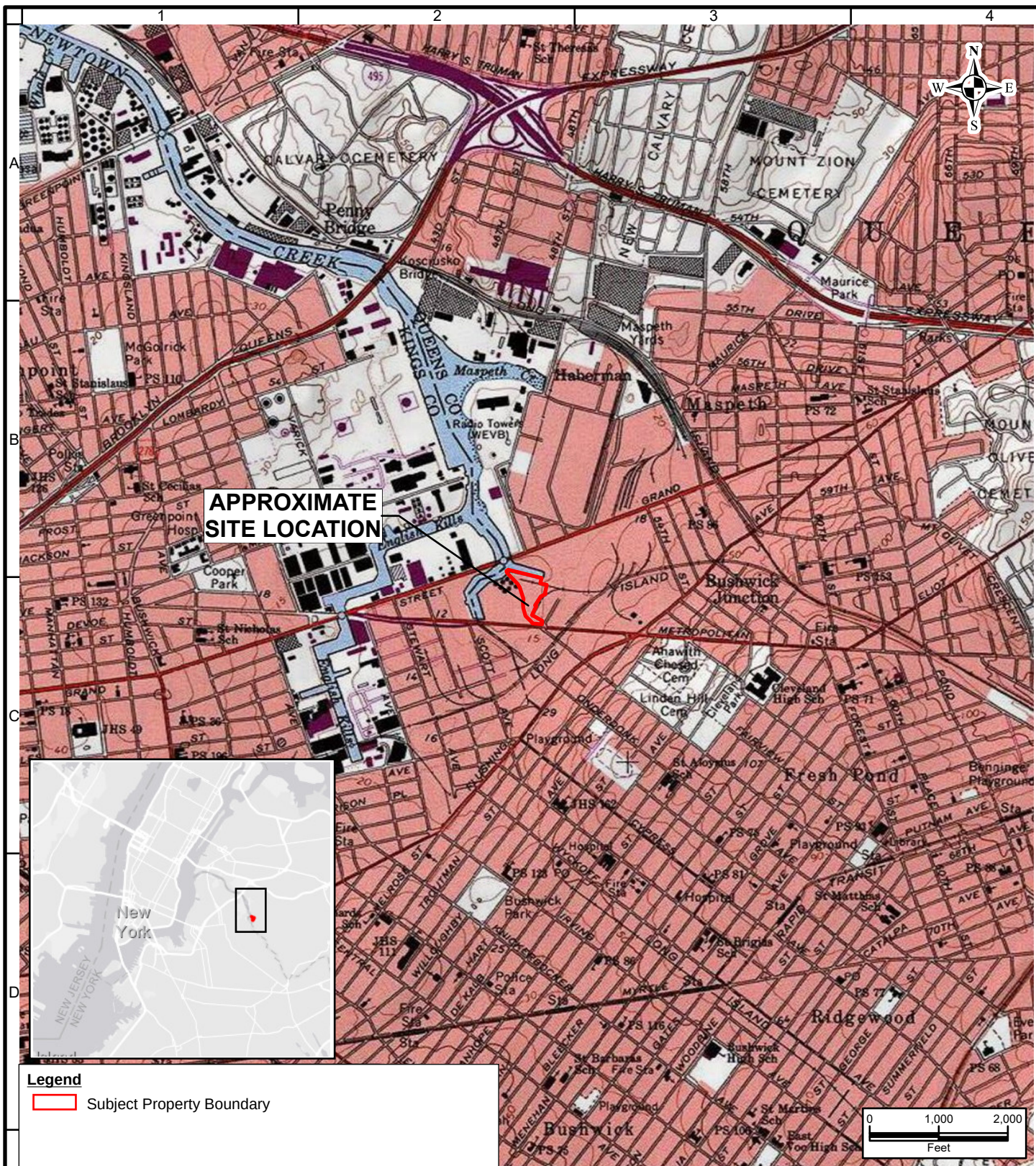
46-81 Metropolitan Avenue
Queens, New York
Langan Project No.: 170663101

Location			AA01			SSV01			SV01			SV02			SV03			SV04			SV05	
Sample ID	NYSDOH AGVs	NYSDOH Decision Matrices Minimum Concentrations	AA01_021621			SSV01_021621			SV01_021621			SV02_021621			SV03_021621			SV04_021621			SV05_021621	
Laboratory ID			L2107478-03			L2107478-06			L2107478-01			L2107478-02			L2107478-05			L2107478-04			L2107478-07	
Sample Date			2/16/2021			2/16/2021			2/16/2021			2/16/2021			2/16/2021			2/16/2021			2/16/2021	
Sample Type			AA			SSV			SV			SV			SV			SV			SV	
Volatile Organic Compounds (µg/m³)																						
1,2,4-Trimethylbenzene	~	~	2.13			31.2	U		347			570			97.3			211			97.8	
1,3,5-Trimethylbenzene (Mesitylene)	~	~	0.983	U		31.2	U		112			167			35			89			40.5	
1,3-Butadiene	~	~	0.442	U		14	U		0.885	U		5.18			3.69	U		6.86			9.49	
2,2,4-Trimethylpentane	~	~	3.56			9,010			110			33			1,890			48.6			20.6	
2-Hexanone	~	~	0.82	U		26	U		45.9			45.9			6.84	U		52.5			37.5	
4-Ethyltoluene	~	~	0.983	U		31.2	U		84.1			107			19.8			52.6			20.8	
Acetone	~	~	7.6			126			35.4			31.8			19.8	U		71.5			26.6	
Benzene	~	~	1.3			20.3	U		2.04			3.83			5.34	U		4.98			5.72	
Carbon Disulfide	~	~	0.623	U		25.7			1.59			15.2			5.2	U		19			88.4	
Chloromethane	~	~	1.07			13.1	U		0.826	U		1.33			3.45	U		0.686			1.01	
Cyclohexane	~	~	1.06			134			203			22.8			25.7			34.8			10.1	
Dichlorodifluoromethane	~	~	2.21			31.4	U		1.98	U		1.98	U		8.26	U		0.989	U		7.27	
Ethanol	~	~	17.8			300	U		29.6			33.7			78.6	U		31.3			22.2	
Ethylbenzene	~	~	1.23			27.6	U		9.08			8.99			7.25	U		16.6			10	
Isopropanol	~	~	8.68			176			2.46	U		2.46	U		10.3	U		2.29			1.23	
M,P-Xylene	~	~	4.27			55.2	U		131			114			38			121			68.6	
Methyl Ethyl Ketone (2-Butanone)	~	~	1.47	U		46.9	U		363			229			232			442			262	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	~	2.05	U		65.2	U		78.3			4.1	U		17.1	U		4.22			2.05	U
n-Heptane	~	~	2.07			26	U		9.84			28.8			12			24.2			12.1	
n-Hexane	~	~	1.97			149			26.7			84.9			119			69.1			24.6	
o-Xylene (1,2-Dimethylbenzene)	~	~	1.61			27.6	U		108			92.1			25.6			96.4			50.8	
Tert-Butyl Alcohol	~	~	1.52	U		48.2	U		8.12			5.67			12.6	U		4.12			1.52	U
Tetrachloroethene (PCE)	30	100	1.36	U		188			2.71	U		2.71	U		1.13	U		1.36	U		1.36	U
Toluene	~	~	6.67			23.9	U		13.2			16.3			14.9			26.7			41.5	
Total Xylenes	~	~	5.86			27.6	U		240			206			63.4			217			119	
Trichloroethene (TCE)	2	6	1.07	U		10			2.15	U		2.15	U		0.897	U		1.07	U		1.07	U
Trichlorofluoromethane	~	~	1.19			35.7	U		2.25	U		2.25	U		9.38	U		1.12	U		1.12	U
Vinyl Chloride	~	6	0.511	U		5.67			1.02	U		1.02	U		0.427	U		0.511	U		0.511	U

- Notes:**
1. Soil vapor sample analytical results are compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGVs) as set forth in the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York and subsequent updates (2013, 2015) and to the minimum soil vapor concentrations at which mitigation is recommended as set forth in the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).
 2. Ambient air sample analytical results are shown for reference only.
 3. Only detected analytes are shown in the table.
 4. Detected analytical results above the NYSDOH AGVs sample are bolded.
 5. Detected analytical results above the minimum soil vapor concentrations recommending mitigation are shaded.
 6. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
 7. ~ = Regulatory limit for this analyte does not exist
 8. µg/m³ = micrograms per cubic meter
 9. AA = Ambient Air
 10. SV = Soil Vapor
 11. SSV = Sub-slab Soil Vapor

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.

FIGURES



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LANGAN

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T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape
Architecture and Geology, D.P.C.
Langan International
Collectively known as Langan

Project

**46-81
METROPOLITAN
AVE**

QUEENS

NEW YORK

Figure Title

**SITE
LOCATION MAP**

Project No.

170663101

Date

1/14/2021

Scale

1:2,000

Drawn By

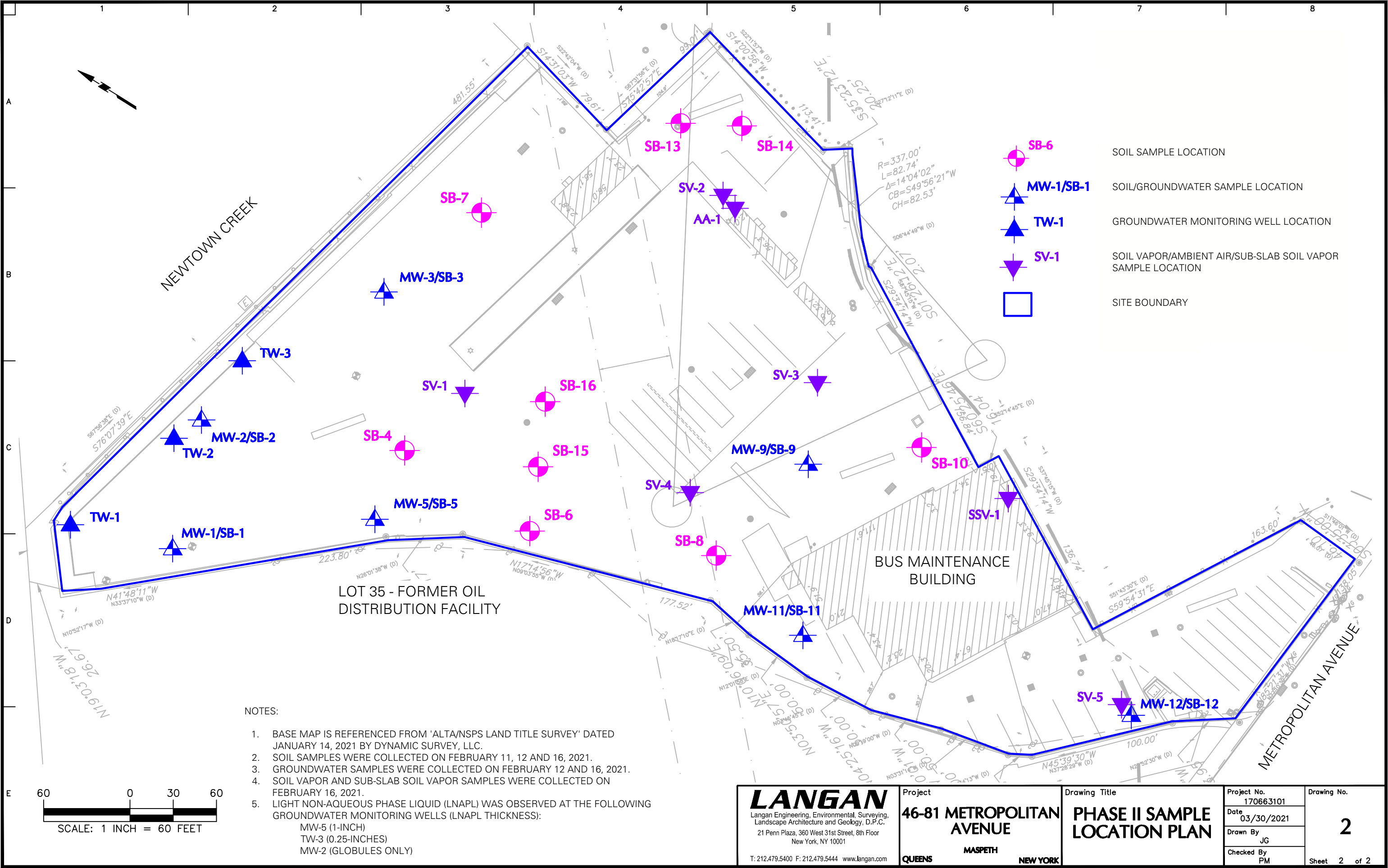
Site Analyzer

Figure

1

Disclaimer: This information is produced by an automated system and may not be complete. The absence of a feature is not a confirmation that the feature is not present at the subject location. Information produced is in the public domain and unless noted has not been field verified or provided for any specific use. Users are also cautioned to confirm the information shown is suitable for their intended use.
Spatial Reference: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet

Warning: It is a violation of the NYS Education Law Article 145 for any person, unless acting under the direction of a licensed professional engineer, land surveyor or geologist, to alter this item in any way.



NOTES:

- 1. BASE MAP IS REFERENCED FROM 'ALTA/NSPS LAND TITLE SURVEY' DATED JANUARY 14, 2021 BY DYNAMIC SURVEY, LLC.
- 2. SOIL SAMPLES WERE COLLECTED ON FEBRUARY 11, 12 AND 16, 2021.
- 3. GROUNDWATER SAMPLES WERE COLLECTED ON FEBRUARY 12 AND 16, 2021.
- 4. SOIL VAPOR AND SUB-SLAB SOIL VAPOR SAMPLES WERE COLLECTED ON FEBRUARY 16, 2021.
- 5. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WAS OBSERVED AT THE FOLLOWING GROUNDWATER MONITORING WELLS (LNAPL THICKNESS):
 - MW-5 (1-INCH)
 - TW-3 (0.25-INCHES)
 - MW-2 (GLOBULES ONLY)

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	Drawing Title	Project No.	Drawing No.
	46-81 METROPOLITAN AVENUE	PHASE II SAMPLE LOCATION PLAN	170663101	2
	MASPETH		Date	
	QUEENS	NEW YORK	03/30/2021	
			Drawn By	
			JG	
			Checked By	
			PM	
				Sheet 2 of 2

APPENDIX A

Geophysical Survey Report

**GEOPHYSICAL SURVEY
46-81 METROPOLITAN AVENUE
QUEENS, NEW YORK**

Prepared for:

LANGAN
300 Kimball Drive, 4th Floor
Parsippany, New Jersey 07054-2172

Prepared by:

Hager-Richter Geoscience, Inc.
dba HR Geological Services in New York
846 Main Street
Fords, New Jersey 08863

File 21AM03
March, 2021

HAGER-RICHTER GEOSCIENCE, INC.

GEOPHYSICS FOR THE ENGINEERING COMMUNITY
SALEM, NEW HAMPSHIRE
Tel: 603.893.9944
FORDS, NEW JERSEY
Tel: 732.661.0555

March 12, 2021
File 21AM03

Joshua Golding
Senior Staff Engineer
LANGAN
300 Kimball Drive, 4th Floor
Parsippany, New Jersey 07054-2172

Tel: 212.479.5562
Cell: 917.941.3484
Email: jgolding@langan.com

RE: Geophysical Survey
46-81 Metropolitan Avenue
Queens, New York

Dear Mr. Golding:

In this report, we summarize the results of a geophysical survey conducted by Hager-Richter Geoscience, Inc., dba HR Geological Services in New York, (HRGS) at the above referenced site in Queens, New York for LANGAN in February 2021. The scope of the survey and area of interest were specified by LANGAN.

INTRODUCTION

The site, approximately 4.5 acres in size, is an active asphalt-paved lot located at 46-81 Metropolitan Avenue in Queens, New York. The general location of the site is shown in Figure 1. Portions of the site are currently used for bus parking. LANGAN required a geophysical survey to determine the locations of possible underground storage tanks (USTs) and subsurface utilities including stormwater drainage piping in 3 areas of concern (AOCs). LANGAN was also interested in clearing utilities at 20 proposed boring locations.

The 3 AOCs totaled approximately 2 acres of the site, including the site building. AOC 1/AOC 4 was in the southern portion of the site and included the building. Severe access limitations were encountered inside the building and in the southern parking area of AOC 1/AOC 4. AOC 2 was in the western portion of the site, and access was also impacted by the presence of parked cars and trucks. AOC 3 was in the northeast corner of the site and was mostly accessible. The proposed boring locations were marked by LANGAN at the time of survey and were relocated by LANGAN if necessary. The limits of the geophysical survey areas are shown in Figure 2.

OBJECTIVE

The objective of the geophysical survey was to detect, and if detected, to locate possible USTs, utilities, etc. in the interior and exterior accessible portions of the specified areas of interest, and to clear utilities in the vicinity of 20 proposed boring locations.

THE SURVEY

Amanda Fabian, P.G., Alexis Martinez, and Justin Covert of HRGS conducted the geophysical survey on February 10th, 11th, and 17th, 2021. The project was coordinated with Mr. Joshua Golding of LANGAN. Mr. Tyler Zorn, also of LANGAN, was on site for the duration of the survey.

The geophysical survey of the specified areas was conducted using three complementary methods: time domain electromagnetic induction metal detection (EM), ground penetrating radar (GPR), and precision utility location (PUL). The EM data were acquired at approximately 8-inch intervals along lines spaced 5 feet apart across the accessible portions of the specified areas of interest. The EM survey detects buried metal. However, the EM method cannot provide information on the type of objects causing an EM anomaly.

GPR data were acquired along traverses oriented in two mutually perpendicular directions, with lines spaced no more than 5 feet apart across the accessible portions of the areas of interest. The GPR method can detect both metal and nonmetal objects.

The PUL method was used to search for subsurface utilities in the areas of interest by passively searching for signals from active electric lines and by actively tracing signals applied by direct connections to accessible utility structures such as hydrants, valves, and other exposed pipes or conduits. Due to snow fall and snow melt prior to and during the field survey many of the site catch basins and manholes were filled with water. Therefore, visual alignment and confirmation of the stormwater drainage piping was not possible.

The locations of utilities detected at the time of the survey with the PUL were marked on site and their locations were recorded with respect to the local survey grid for inclusion on the site plan. The geophysical data were reviewed in the office and additional utility segments were identified, and their locations are shown on the plan included in this report.

The proposed locations of the boreholes were marked in the field by LANGAN at the beginning of the survey. The locations of the proposed borings on the plan included in this report are shown as they are on the plan, provided by LANGAN, entitled, "Site Plan (Phase II Sample Locations - proposed only)." The locations may have been slightly adjusted in field to avoid obstructions. In particular, since the field survey crew could only gain access to the bay area at the eastern side of the building, Mr. Zorn indicated that proposed boring SSV-1 would likely be moved into that area. Utilities and other features detected in the vicinity of proposed borings were marked on the

ground at the time of the survey. LANGAN was notified where proposed boring locations conflicted with detected utilities or features. The locations of the proposed borings on the plan included in this report are shown as they are on the plan, provided by LANGAN, entitled, "Site Plan (Phase II Sample Locations - proposed only)."

EQUIPMENT

EM61. The EM survey was conducted using a Geonics EM61-MK2 time domain electromagnetic induction metal detector. The EM61-MK2 instrument was designed specifically for detecting buried metal objects such as utilities, underground storage tanks (USTs), and drums. An air-cored transmitter coil generates a pulsed primary magnetic field in the earth, thereby inducing eddy currents in nearby metal objects. The eddy current produces a secondary magnetic field that is sensed by two receiver coils, one coincident with the transmitter and one positioned 40 cm above the main coil. By measuring the secondary magnetic field after the current in the ground has dissipated but before the current in metal objects has dissipated, the instrument responds only to the secondary magnetic field produced by metal objects. Four channels of secondary response are measured in mV and are recorded on a digital data logger. The system is generally operated by pushing the coils configured as a wagon with an odometer mounted on the axle to trigger the data logger automatically at approximately 8-inch intervals.

GPR. The GPR survey was conducted using a Geophysical Survey Systems, Inc. UtilityScan Hyper Stacking digital GPR system using both 350 MHZ antenna with 50 ns time window. GPR uses a high-frequency electromagnetic pulse (referred to herein as "radar signal") transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. Travel times of the radar signal can be converted to approximate depth below the surface by correlation with targets of known depths and by a curve matching routine. We monitor the acquisition of GPR data in the field and record the GPR data digitally for subsequent processing. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

Data from the GPR survey were processed using RADAN 7.4 GPR processing software from Geophysical Survey Systems, Inc. We reviewed profile images of the GPR data. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

PUL. The PUL survey was conducted using a Radiodetection RD 7000 series PUL instrument. The RD 7000 series consists of separate transmitter and receiver. The system can be used in "passive" and "active" modes to locate buried pipes by detecting electromagnetic signals carried by the pipes. In the "passive" mode, only the receiver unit is used to detect signals carried by the pipe from nearby power lines, live signals transmitted along underground power cables, or very low frequency radio signals resulting from long wave radio transmissions that flow along buried conductors. In the "active" mode of operation, the transmitter is used to induce a signal on a

target pipe, and the receiver is used to trace the signal along the length of the pipe. Our system uses a 10W transmitter.

LIMITATIONS OF THE METHODS

HRGS MAKES NO GUARANTEE THAT ALL TARGETS WERE DETECTED IN THIS SURVEY. HRGS IS NOT RESPONSIBLE FOR DETECTING TARGETS THAT CANNOT BE DETECTED BY THE METHODS EMPLOYED OR BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MIGHT NOT BE SUFFICIENT TO DETECT ALL TARGETS.

Field mark-outs. Utilities detected by the PUL method at the time of the survey are marked in the field. Adverse weather and site conditions (rain, snow, snow and soil piles, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Mark-outs made on wet pavement, snow, snow piles, gravel surfaces, or in active construction zones may not last. HRGS is not responsible for maintaining utility mark-outs after leaving the work area.

EM61. The EM61 cannot detect non-metallic objects. The data from an EM61 survey are adversely affected by surface metal. The EM61 has a depth sensitivity limited to about 12 feet. The instrument is relatively cumbersome and works best where the transmit and receive coils can be hand pushed in a small wagon.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- a cache of drums, UST, automobile, white goods, etc.?). Although the EM data cannot be used to identify all buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey. Limitations include: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities.

The electrical conductivity of the ground determines the attenuation of the GPR signal and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize, and the target can be missed.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

PUL. The PUL equipment cannot detect non-metallic utilities, such as pipes constructed of vitrified clay, transite, plastic, PVC, and unreinforced concrete, when used in passive mode alone. Such pipes can be detected if a wire tracer is installed with access to such tracer for transmission of a signal or where access (such as floor drains and clean-outs) permits insertion of a device on which a signal can be transmitted. In some, but not all cases, the subsurface utility designation equipment cannot detect metal utilities reliably under reinforced concrete because the signal couples onto the metal reinforcing in the concrete. Similarly, the method commonly cannot be used adjacent to grounded metal structures such as chain link fences and metal guardrails. In congested areas, where several utilities are bundled or located within a short distance of each other, the signal transmitted on one utility can couple onto adjacent utilities, and the accuracy of the location indicated by the instrument decreases.

RESULTS

General. The geophysical survey was conducted using the EM61, GPR, and PUL methods across the accessible portions of the AOCs specified by LANGAN. Figure 2 shows the approximate limits of the geophysical survey, Plate 1 shows a color contour plot of the EM61 survey results, and Plate 2 shows the locations of the GPR traverses and the integrated interpretation of the geophysical data.

EM61. The EM61 data were acquired at approximately 8-inch intervals along survey lines spaced 5 feet apart across the accessible portions of the areas of interest. As indicated above, the results of the EM61 survey are shown in color contour form in Plate 1. Interpretation of EM61 data is based on the relative response of the instrument in millivolts to local conditions. The instrument is not calibrated to provide an absolute measure of a particular property, such as the conductivity of the soil or the strength of the earth's magnetic field. Subsurface metal objects produce sharply defined positive anomalies when the EM61 is positioned directly over them. Acquiring data at short intervals along closely spaced lines, as was done at the subject site, provides high spatial resolution of the location and footprint of the targets. Thus, buried metal is

recognized in contour plots of EM61 data by positive anomalies with spatial dimensions roughly corresponding to the dimensions of the buried metal.

Numerous moderate- to high-amplitude EM anomalies (green to red areas) are present within the areas of interest. Many such anomalies are attributed to surface features such as buildings, chain link fencing, trucks, staged equipment, etc. The locations of anomalies attributed to surface metal objects are depicted as blue hatched areas in the integrated interpretation shown in Plate 2. We note that the presence or absence of subsurface metal in such areas cannot be determined based on the EM data alone because of the anomalies caused by the surface metal objects.

Several EM anomalies, ranging from low to high amplitude and not attributable to surface metal, were detected in AOC 1/AOC 4 and AOC 2. The GPR records for the locations of EM anomalies were carefully examined to determine the cause of the anomalies. When no specific cause can be determined, the EM anomaly is simply attributed to buried metal and their locations are shown on Plate 2 as red-hatched areas. The large EM anomaly detected to the north of AOC 2 was determined to be caused by shallow-buried reinforced concrete.

Linear EM anomalies with various amplitudes are also present throughout the AOCs. These features are attributed to segments of metallic utilities.

GPR Survey and Integrated Interpretation. The locations of the GPR traverses and the integrated interpretation of the geophysical data are shown in Plate 2. Apparent GPR signal penetration was limited, with two-way travel time reflections received from 10-20 ns. Based upon site specific velocity matching calibrations, the GPR signal penetration is estimated to have been 2-4 feet.

The GPR records exhibit linear alignments of reflections interpreted as possible utilities or segments of utilities, and their locations are shown as black-dashed lines on Plate 2. Some of the utilities were also detected by the EM and PUL methods. GPR reflections typical for underground storage tanks (USTs) were not observed in the GPR records. Whether other buried structures such as utilities or underground storage tanks (USTs) occur at a depth greater than the effective depth of investigation of the GPR (about 2-4 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

PUL. The PUL transmitter was attached to fire hydrants, light poles a gas meter, and electrical conduits located in and around the AOCs. We also conducted a PUL survey in “passive” mode to detect signals carried by utilities from nearby power lines. Several electric, gas and a water line were detected. The locations of detected utilities are shown in Plate 2. Due to snow fall and snow melt prior to and during the field survey many of the site catch basins and manholes were filled with water. Therefore, visual alignment and confirmation of the stormwater drainage piping was not possible.

CONCLUSIONS

Based upon the geophysical survey conducted by HRGS at the 46-81 Metropolitan Avenue for LANGAN in February 2021, we conclude:

- Some areas of buried metal/reinforced concrete were detected in AOCs 1/4 and 2.
- Electric utilities were detected in several AOCs
- A gas utility was detected in AOC 1
- Unidentified possible utilities were detected throughout the site.
- No other subsurface features, such as utilities or USTs, were detected within the effective depth of penetration of the GPR signal (about 2-4 feet).

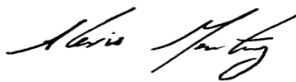
LIMITATIONS ON USE OF THIS REPORT

This letter report was prepared for the exclusive use of LANGAN (Client). No other party shall be entitled to rely on this Report, or any information, documents, records, data, interpretations, advice, or opinions given to Client by Hager-Richter Geoscience, Inc. (HRGS) in the performance of its work. The Report relates solely to the specific project for which HRGS has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of HRGS. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to HRGS.

HRGS has used reasonable care, skill, competence and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by HRGS should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, HRGS makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed. If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with LANGAN on this project. We look forward to working with you again in the future.

Sincerely,
HAGER-RICHTER GEOSCIENCE, INC.
dba HR Geological Services in NY



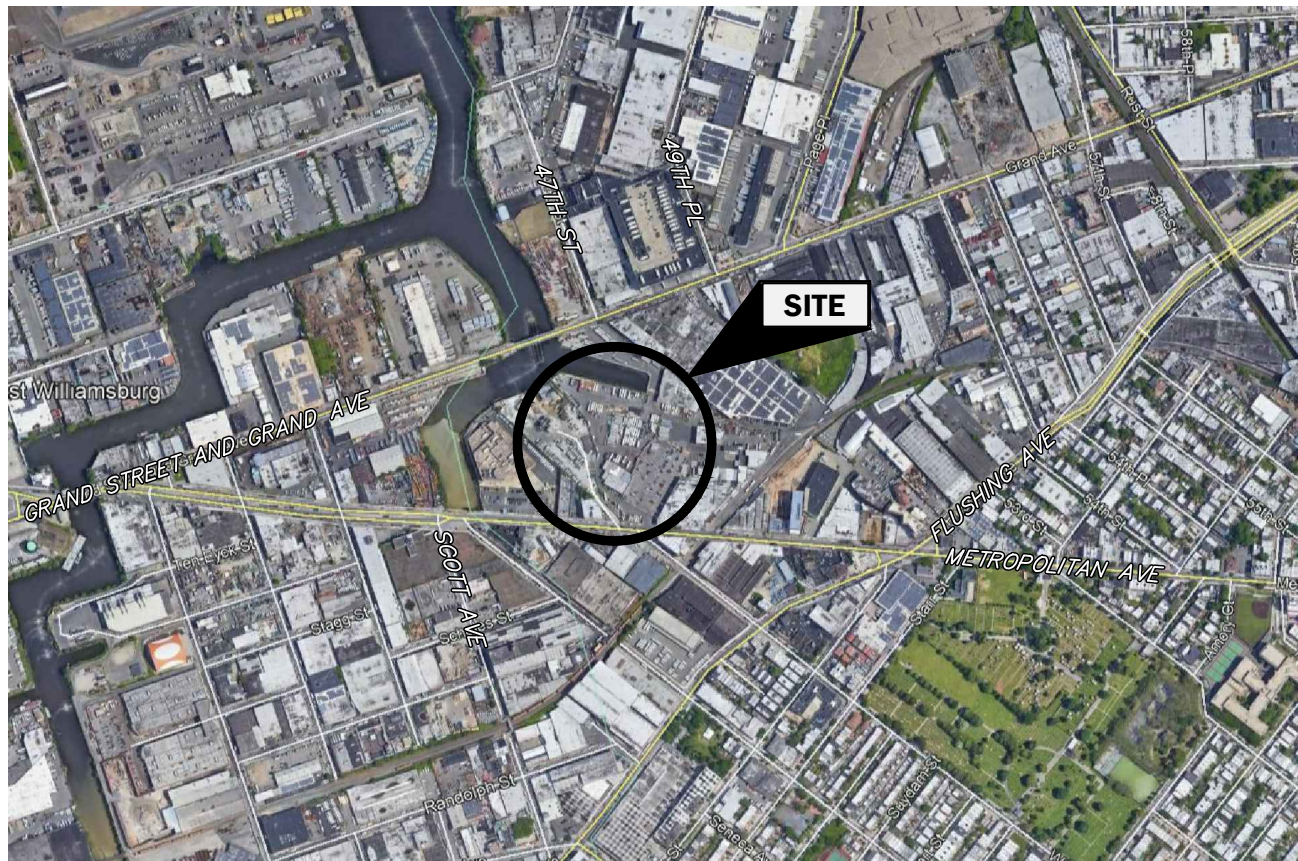
Alexis Martinez
Senior Geophysicist



Amanda Fabian, P.G. (NY 000567)
Geophysicist

Attachments: Figures 1 – 2

Plates 1 - 2



APPROXIMATE SCALE (feet)

0 1000 2000



NOTE:

Modified from Google Earth Pro aerial photograph.

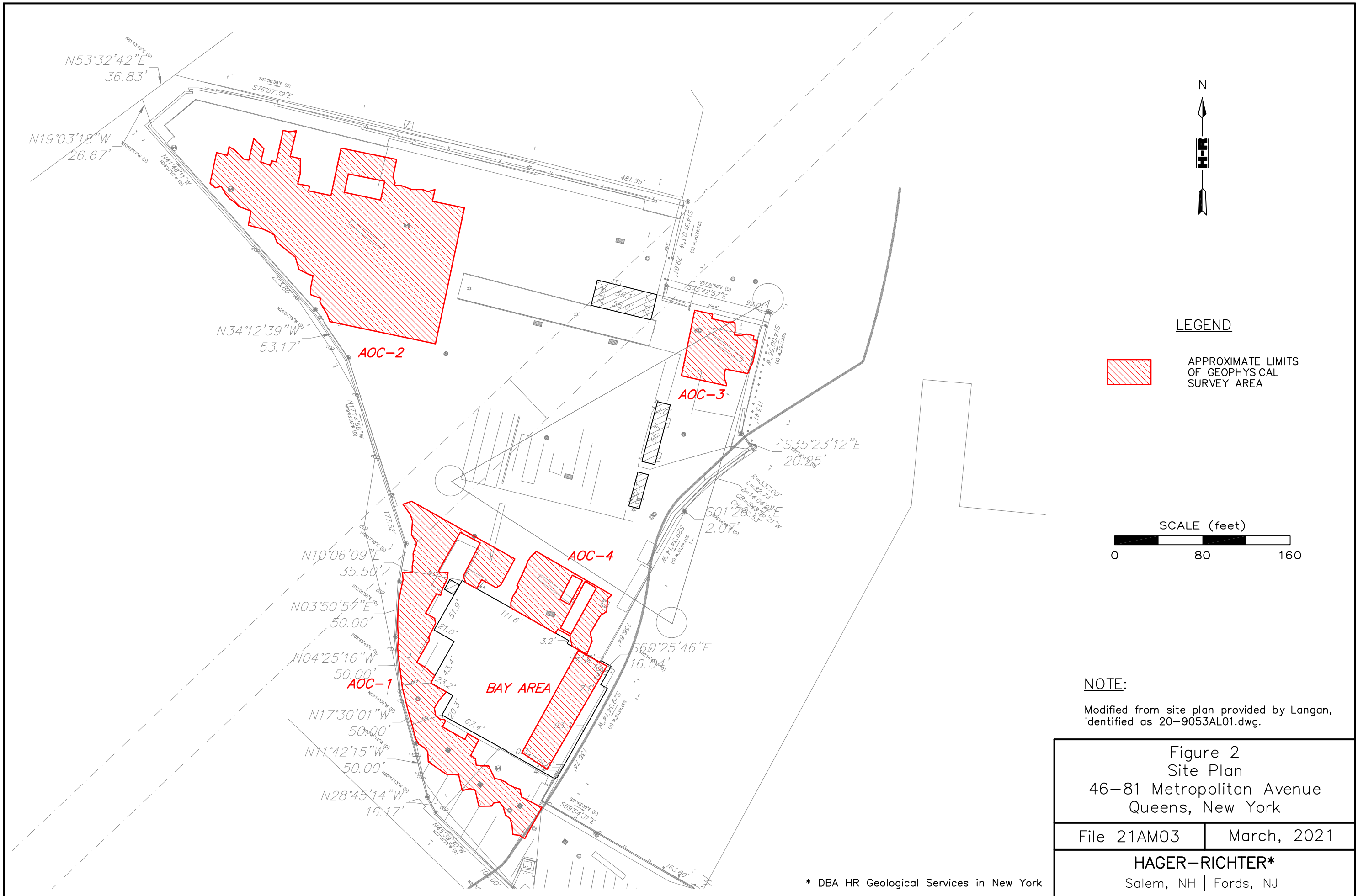
* DBA HR Geological
Services in New York

Figure 1
General Site Location
46–81 Metropolitan Avenue
Queens, New York

File 21AM03

March, 2021

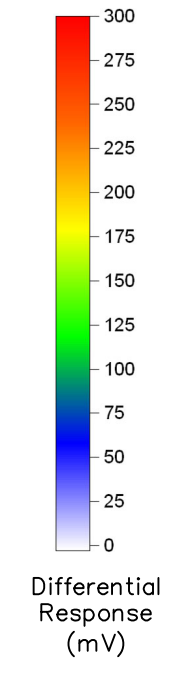
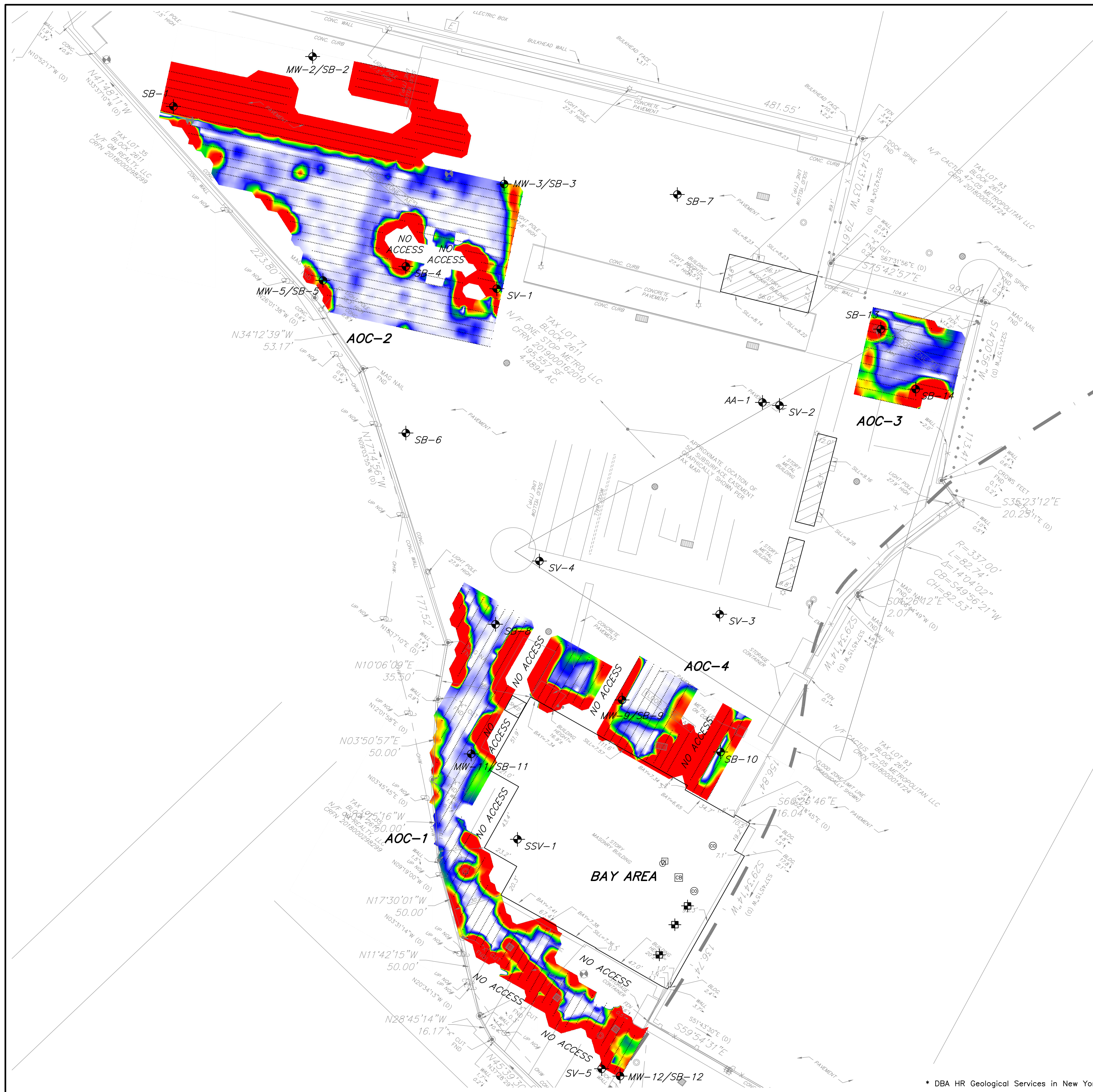
HAGER–RICHTER*
Salem, NH | Fords, NJ



NOTE:
Modified from site plan provided by Langan,
identified as 20-9053AL01.dwg.

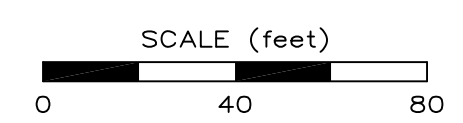
Figure 2 Site Plan 46-81 Metropolitan Avenue Queens, New York	
File 21AM03	March, 2021
HAGER-RICHTER* Salem, NH Fords, NJ	

* DBA HR Geological Services in New York



LEGEND

- DATA STATIONS
- PROPOSED BORING
- CATCH BASIN
- VAULT
- VENT
- CLEAN OUT
- MONITORING WELL



NOTES:

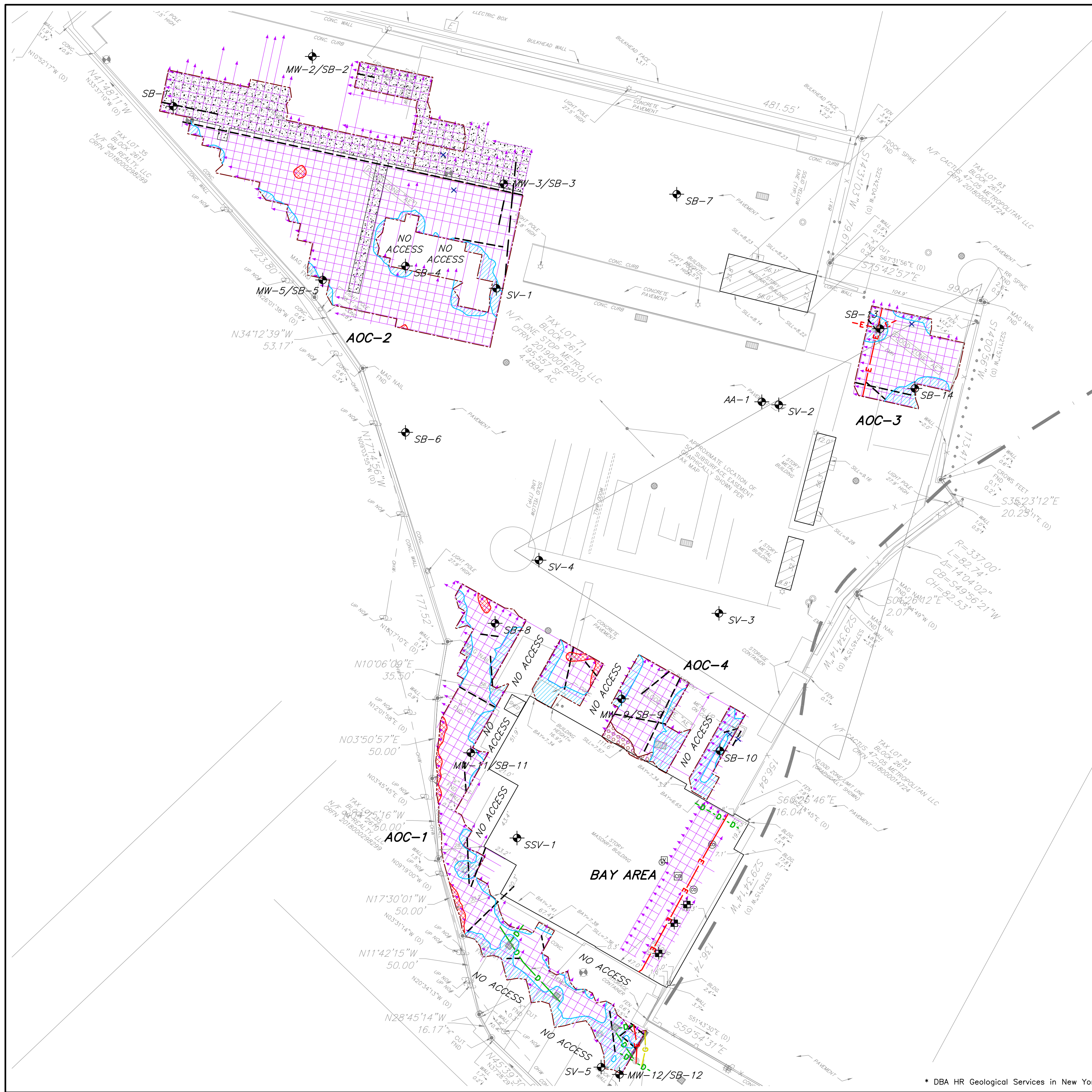
- Modified from site plan provided by Langan, identified as 20-9053AL01.dwg.
- Data were acquired with Geonics EM61-MK2. Differential response shown.
- Differential response equals top coil response - bottom coil response.

PLATE 1
EM61 SURVEY
46-81 METROPOLITAN AVENUE
QUEENS, NEW YORK

FILE 21AM03MARCH, 2021

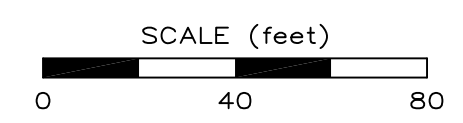
HAGER-RICHTER*
SALEM, NH | FORDS, NJ

* DBA HR Geological Services in New York



LEGEND

- APPROXIMATE LIMITS OF EM SURVEY AREA
- GPR TRAVERSE
- AREA OF POSSIBLE BURIED METAL
- BURIED REINFORCED CONCRETE
- G GAS LINE
- E ELECTRIC LINE
- D DRAIN LINE
- - - POSSIBLE UTILITY
- x UNIDENTIFIED BURIED OBJECT
- EM ANOMALY ATTRIBUTED TO EFFECTS OF SURFACE OBJECTS. THE PRESENCE OR ABSENCE OF BURIED METAL WITHIN THIS AREA CANNOT BE DETERMINED ON THE BASIS OF THE EM61 DATA ALONE.
- PROPOSED BORING
- CATCH BASIN
- VAULT
- VENT
- CLEAN OUT
- MONITORING WELL



NOTE:

Modified from site plan provided by Langan, identified as 20-9053AL01.dwg.

PLATE 2
GPR SURVEY &
INTEGRATED INTERPRETATION
46-81 METROPOLITAN AVENUE
QUEENS, NEW YORK

FILE 21AM03MARCH, 2021

HAGER-RICHTER*
SALEM, NH | FORDS, NJ

* DBA HR Geological Services in New York

APPENDIX B

Soil Boring Logs

Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/11/21		Date Finished 2/11/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 3.5		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Caroline Gratton			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (0-12"): Gray to greenish orange medium SAND, some fine gravel, brick (moist)[FILL]	0					0.0	Petroleum-like staining observed from 1.5 to 2.5 feet		
		R1B (12-21"): Dark gray fine SAND, trace fine gravel, some silt, brick, slag (moist)[FILL]	1					0.0			
		R1C (21-34"): Dark gray to greenish brown fine SAND, trace fine gravel, some silt, trace clay, brick (moist)[FILL]	2	R-1	MACROCORE	34		0.0			
			3					0.0			
			4					0.0			
			R2A (0-4"): Dark gray fine SAND, trace fine gravel, trace medium sand (moist)[FILL]	5					6.6	Collect SB01_5-6	
			R2B (4-20"): Dark gray medium SAND, some fine gravel, coal ash, glass, slag (wet)[FILL]	6	R-2	MACROCORE	36		8.6		
			R2C (20-36"): Dark gray to dark green fine SAND, trace fine gravel, trace silt, ceramics, coal ash (wet)[FILL]	7					3.7	Petroleum-like odor and staining observed from 5 to 8 feet	
				8					2.3		
				9					2.1		
				R3A (0-18"): Gray medium SAND, trace fine gravel, some fine sand, some silt, trace clay, coal ash, glass (wet)[FILL]	10					1.7	Petroleum-like odor and staining observed from 8.5 to 10 feet
				R3B (18-40"): Brown to dark gray firm PEAT, trace clay (wet)[Pt]	11	R-3	MACROCORE	40		1.2	
			R4A (0-14"): Brown to dark gray firm PEAT, trace clay (wet)[Pt]	12					0.3	Organic-like decay odor observed from 10 to 12 feet	
	R4B (14-20"): Dary gray to brown organic CLAY, some fibers (wet)[OH]		13					0.3			
		R4C (20-32"): Dark gray fine SAND, some fine gravel (wet)[SP]	14	R-4	MACROCORE	32		0.4	Organic-like decay odor observed from 13.5 to 15 feet		
			15					0.5			
			16					2.8			
				17					5.7	End of boring. Set 10-foot 0.020-slot well screen at about 12 feet.	
			18					3.4			
			19					2.0			
			20					36.6			

Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/11/21		Date Finished 2/11/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		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 Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (0-12"): Tan to dark brown fine SAND, trace fine gravel, some medium sand, brick (dry)[FILL]	0					0.4	Petroleum-like odor observed from 3 to 4 feet
		R1B (12-28"): Tan to yellowish brown fine SAND, trace fine gravel, some medium sand (dry)[FILL]	1				0.2		
			2	R-1	MACROCORE	40		0.7	
			3				0.6		
		R1C (28-40"): Dark brown medium SAND, trace fine gravel, some fine sand, brick (moist)[FILL]	4				0.4		
			5				0.4		
			6				0.2		
		R2: Dark brown to black fine SAND, trace fine gravel, some medium sand, brick (wet)[FILL]	6	R-2	MACROCORE	20		12.9	Petroleum-like odor and staining observed from 7 to 9 feet
			7				14.1		
			8				16.3		
		R3A (0-12"): Gray to dark gray fine SAND, trace fine gravel, trace medium sand, trace silt (wet)[FILL]	9				25.2	Collect SB02_7-9	
		R3B (12-48"): Gray to dark gray fine sand, organics (wet)[SP]	10	R-3	MACROCORE	48		11.1	Petroleum-like odor observed from 8 to 12 feet
			11				10.8		
			12				7.4		
			13				6.1		
		R4: Brown to gray medium SAND, trace fine gravel, some fine sand (wet)[SP]	14	R-4	MACROCORE	48		4.9	Petroleum-like odor observed from 12 to 16 feet
		15				4.2			
		16				5.1			
		17				3.8			
			18				7.8		
			19				6.5		
			20				7.2		
							5.9		
							5.2		
							6.1		
							5.2		
							4.7	End of boring. Set 10-foot 0.020-slot well screen at about 13 feet. Temporary well was removed after sampling. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.	

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Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/11/21		Date Finished 2/11/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		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 Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (0-18"): Light gray fine gravel, concrete (dry)[CONCRETE]	0						An about 1.5-foot layer of concrete encountered
			1						
			2						
			3						
		R1B (18-30"): Tan to brown fine SAND, trace fine gravel, trace medium sand, brick (dry)[FILL]	4						Collect SB03_6-8
			5						
			6						
			7						
		R1C (30-48"): Dark brown fine SAND, trace fine gravel, some medium sand, brick (moist)[FILL]	8						Collect SB03_6-8
			9						
			10						
			11						
		R2: Dark brown medium SAND, some fine gravel, some fine sand (wet)[FILL]	12						Collect SB03_6-8
			13						
			14						
			15						
		R3A (0-12"): Dark brown medium SAND, some fine gravel, some fine sand (wet)[FILL]	16						Collect SB03_6-8
			17						
			18						
			19						
		R3B (12-48"): Brown PEAT, trace clay (moist)[Pt]	20						Collect SB03_6-8
			21						
			22						
			23						
		R4: Gray SILT, trace fine sand (wet)[SP-SM]	24						End of boring. Set 10-foot 0.020-slot well screen at about 13 feet. Temporary well was removed after sampling. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
			25						
			26						
			27						

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Project 46-81 Metropolitan Ave			Project No. 170663101		
Location Queens, NY			Elevation and Datum N/A		
Drilling Company AARCO Environmental Services Corp.			Date Started 2/11/21		Date Finished 2/11/21
Drilling Equipment Geoprobe 7822 DT			Completion Depth 16 ft		Rock Depth N/A
Size and Type of Bit 2-inch-diameter Direct Push			Number of Samples	Disturbed 4	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 Thomas Harer		
Sampler 4-foot-long Macrocore with acetate liner			Field Engineer Tyler Zorn		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

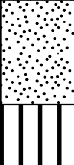
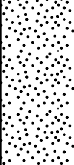
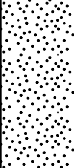
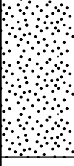
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/in	PID Reading (ppm)	
		R1A (0-12"): Light gray to dark gray medium SAND, some fine gravel, some fine sand, brick, concrete (dry)[FILL] R1B (12-38"): Tan to dark brown fine SAND, trace fine gravel, some medium sand, construction wood debris (moist)[FILL]	0					0.3	Petroleum-like odor observed from 2 to 4 feet
			1					1.4	
			2	R-1	MACROCORE	38		6.6	
			3					61.8	
			4					72.1	
			5					73.9	Petroleum-like odor observed from 4 to 8 feet
		R2A (0-14"): Tan to dark brown fine SAND, trace fine gravel, some medium sand, trace silt (moist)[FILL]	6	R-2	MACROCORE	42		72.5	
		R2B (14-42"): Tan to brown SILT, some fine sand (wet)[SP-SM]	7					121.6	
			8					148.2	
			9					68.3	
		R3: Tan to brown fine SAND, trace medium sand, some silt (wet)[SP-SM]	10	R-3	MACROCORE	36		86.7	Petroleum-like odor observed from 9 to 12 feet Collect SB04_9-11
			11					75.5	
			12					79.2	
			13	R-4	MACROCORE	48		71.3	
		R4: Tan to brown fine SAND, some medium sand, trace silt (wet)[SP-SM]	14					66.1	
			15					72.8	Petroleum-like staining observed from 11 to 12 feet
			16					115.2	
			17					159.4	
			18					151.7	
			19					146.4	
			20					147.5	Petroleum-like odor and staining observed from 12 to 16 feet
								141.2	
								133.3	
								128.4	
								124.7	
								112.2	End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
								104.7	
								102.3	
								101.8	

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Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/11/21		Date Finished 2/11/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		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 Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (0-24"): Light gray to dark gray medium SAND, some fine gravel, some fine sand, brick, concrete (dry)[FILL]	0					1.6	Petroleum-like odor observed from 1 to 4 feet
			1					2.4	
			2	R-1	MACROCORE	44		3.7	
			3					5.2	
		R2A (24-44"): Dark brown fine SAND, trace fine gravel, some medium sand, glass (moist)[FILL]	4					80.9	Petroleum-like odor observed from 4 to 8 feet
			5					114.2	
			6	R-2	MACROCORE	48		148.6	
			7					78.1	
		R2A (0-30"): Dark brown to gray fine SAND, trace fine gravel, some medium sand, organics (moist)[SP]	8					77.9	Petroleum-like staining observed from 7 to 8 feet
			9					81.5	
			10	R-3	MACROCORE	26		72.7	
			11					71.2	
		R2B (30-48"): Tan to gray SILT, trace fine gravel, trace fine sand (wet)[SP-SM]	12					74.8	Petroleum-like odor and staining observed from 10 to 12 feet
			13					72.4	
			14	R-4	MACROCORE	48		114.2	
			15					148.1	
		R3: Tan to gray fine SAND, trace fine gravel, some silt (wet)[SP-SM]	16					162.5	Petroleum-like odor and staining observed from 12 to 16 feet
			17					156.6	
			18					161.8	
			19					178.3	
		R4: Tan to gray fine SAND, trace fine gravel, some silt (wet)[SP-SM]	20					188.5	Collect SB05_13-15
			21					189.4	
			22					197.8	
			23					173.1	
			24					162.3	End of boring. Set 10-foot 0.020-slot well screen at about 13 feet. Temporary well was removed after sampling. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
			25					159.1	
			26					158.3	
			27						

Project	46-81 Metropolitan Ave			Project No.	170663101		
Location	Queens, NY			Elevation and Datum	N/A		
Drilling Company	AARCO Environmental Services Corp.			Date Started	2/11/21	Date Finished	
Drilling Equipment	Geoprobe 7822 DT			Completion Depth	16 ft	Rock Depth	
Size and Type of Bit	2-inch-diameter Direct Push			Number of Samples	4	Disturbed	Undisturbed
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First	7	Completion
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	24 HR.	N/A
Sampler	4-foot-long Macrocore with acetate liner			Drilling Foreman	Thomas Harer		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	Field Engineer	Tyler Zorn

MATERIAL SYMBOL	Elev. (ft)	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 (0-4"): Light gray to dark gray medium SAND, some fine gravel, some fine sand, concrete (dry)[FILL] R1B (4-32"): Brown to dark brown fine SAND, trace fine gravel, some medium sand, brick, glass (moist)[FILL]	0	R-1	MACROCORE	32		2.2	Petroleum-like odor observed from 1 to 4 feet
			1					4.9	
			2					10.3	
			3					20.1	
		R2A (0-16"): Brown to dark brown fine SAND, trace fine gravel, some medium sand (moist)[FILL]	4	R-2	MACROCORE	48		32.7	Petroleum-like odor observed from 4 to 8 feet
			5					48.7	
			6					61.4	
			7					70.9	
		R2B (16-36"): Dark brown fine SAND, trace silt, organics (moist)[SP-SM]	8	R-3	MACROCORE	48		77.1	Collect SB06_6-8
			9					68.6	
			10					79.2	
			11					80.5	
		R2C (36-48"): Tan to brown SILT, some fine sand (wet)[SP-SM]	12	R-4	MACROCORE	36		72.4	Petroleum-like odor observed from 8 to 12 feet
			13					71.8	
			14					70.9	
			15					71.8	
		R3: Tan to brown fine SAND, trace medium sand, trace silt (wet)[SP-SM]	16	R-3	MACROCORE	48		45.6	Petroleum-like odor observed from 12 to 16 feet
			17					25.7	
			18					26.1	
			19					26.2	
		R4: Tan to brown medium SAND, trace fine sand, trace silt (wet)[SP-SM]	20	R-4	MACROCORE	36		24.7	End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
			21					23.1	
			22					24.2	
			23					21.9	
			24	R-4	MACROCORE	36		23.6	
			25					18.1	
			26					15.6	
			27					12.1	
			28	R-4	MACROCORE	36		11.8	
			29					10.4	
			30						
			31						

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Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/12/21		Date Finished 2/12/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples		Disturbed 4	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot-long Macrocore with acetate liner				Drilling Foreman Thomas Harer			
Sampler Hammer N/A				Field Engineer Tyler Zorn			
Sampler Hammer N/A				Weight (lbs) N/A			
Drop (in) N/A							

MATERIAL SYMBOL	Elev. (ft)	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"): Light gray medium SAND, concrete (dry)[FILL]	0	R-1	MACROCORE	36			0.0	Collect SB07_5-7	
		R1B (6-16"): Gray fine SAND, trace fine gravel, some medium sand, concrete (dry)[FILL]	1						0.0		
		R1C (16-36"): Dark gray medium SAND, trace fine gravel, trace fine sand (moist)[FILL]	2						0.1		
			3						0.3		
			4						0.1		
		R2A (0-22"): Light gray to gray fine SAND, trace fine gravel, some medium sand (wet)[FILL]	5	R-2	MACROCORE	48			0.0		
			6						0.0		
			7						0.0		
			8						0.0		
			9						0.0		
			R3: Brown PEAT, trace clay (moist)[Pt]	10	R-3	MACROCORE	38				8.2
				11							2.1
			12	6.4							
			13	5.1							
			14	2.2							
		R4A (0-12"): Brown PEAT, trace clay (moist)[Pt]	15	R-4	MACROCORE	36			0.6		
			16						0.1		
			17						0.1		
		R4B (12-36"): Light gray to gray SILT, some fine sand (wet)[SP-SM]	18						0.0		
			19						0.0		
			20						0.0		

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End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.

Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/12/21		Date Finished 2/12/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 7.5		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (012"): Light gray to gray medium SAND, some fine gravel, trace fine sand, concrete (dry)[FILL] R1B (12-22"): Dark brown medium SAND, trace fine gravel, some fine sand, brick (dry)[FILL] R1C (22-35"): Dark brown fine SAND, trace fine gravel, some medium sand, concrete (moist)[FILL]	0	R-1	MACROCORE	35			0.0	Collect SB08_6-8
	1	0.0								
	2	0.0								
	3	0.0								
	4	0.0								
		R2A (012"): Dark brown medium SAND, trace fine gravel, concrete (moist)[FILL] R2B (12-18"): Dark brown fine SAND, trace fine gravel, brick, concrete (wet)[FILL] R2C (18-26"): Dark brown fine SAND, trace fine gravel, brick (wet)[FILL] R3A (0-16"): Brown PEAT, trace clay (moist)[Pt]	5	R-2	MACROCORE	26			0.0	
	6	0.0								
	7	0.0								
	8	0.0								
		R3B (16-28"): Brown to gray SILT, some fine sand (wet)[SP-SM] R3C (28-48"): Brown to gray medium SAND, some fine sand, trace silt (wet)[SP-SM]	9	R-3	MACROCORE	48			0.2	
	10	0.6								
	11	0.1								
	12	0.0								
		R4: Brown to gray medium SAND, some fine sand, trace silt (wet)[SP-SM]	13	R-4	MACROCORE	36			0.0	
	14	0.0								
	15	0.0								
16	0.0									
			17						0.0	End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
18										
19										
20										

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Project	46-81 Metropolitan Ave			Project No.	170663101		
Location	Queens, NY			Elevation and Datum	N/A		
Drilling Company	AARCO Environmental Services Corp.			Date Started	2/12/21	Date Finished	
Drilling Equipment	Geoprobe 7822 DT			Completion Depth	16 ft	Rock Depth	
Size and Type of Bit	2-inch-diameter Direct Push			Number of Samples	4	Disturbed	Undisturbed
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First	7	Completion
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	24 HR.	N/A
Sampler	4-foot-long Macrocore with acetate liner			Drilling Foreman	Thomas Harer		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	Field Engineer	Tyler Zorn

MATERIAL SYMBOL	Elev. (ft)	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"): Light to dark gray medium SAND, some fine gravel, trace fine sand, brick, concrete (dry)[FILL]	0					0.0	
		R1B (6-18"): Light brown to brown fine SAND, trace fine gravel, some medium sand, brick (dry)[FILL]	1					0.0	
		R1C (18-24"): Dark brown fine SAND, trace fine gravel, some medium sand (moist)[FILL]	2	R-1	MACROCORE	40		0.0	
		R1D (24-40"): Brown fine SAND, trace fine gravel (moist)[FILL]	3					0.0	
		R2A (0-8"): Brown fine SAND, trace fine gravel, trace medium sand (moist)[FILL]	4					0.0	
		R2B (8-20"): Brown PEAT, trace clay (moist)[Pt]	5	R-2	MACROCORE	34		0.0	
		R2C (20-34"): Brown to light blue SILT, trace fine sand, trace clay (wet)[ML]	6					0.0	
		R3A (0-20"): Brown to light blue SILT, trace fine sand, trace clay (wet)[ML]	7	R-3	MACROCORE	34		0.0	
		R3B (20-34"): Brown fine SAND, trace medium sand, trace silt (wet)[SP-SM]	8					0.0	
		R4: Light brown to brown fine SAND, trace medium sand, trace silt (wet)[SP-SM]	9	R-4	MACROCORE	30		0.0	
			10					0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
			15					0.0	
			16					0.0	
			17					0.0	
			18					0.0	
			19					0.0	
			20					0.0	

Collect SB10_6-8

End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.

Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/16/21		Date Finished 2/16/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 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 Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penet. resist BL/in		PID Reading (ppm)
	0	R1A (0-24"): Light gray medium SAND, some fine gravel, concrete (dry)[FILL]						0.0	Petroleum-like odor observed from 5 to 7 feet Collect SB11_5-7 End of boring. Set 10-foot 0.020-slot well screen at about 13 feet. Temporary well was removed after sampling. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
	1						0.0		
	2	R1B (24-30"): Dark gray fine SAND, trace fine gravel, trace medium sand, brick (moist)[FILL]	R-1	MACROCORE	36		0.0		
	3	R1C (30-36"): Light gray medium SAND, some fine gravel, concrete (moist)[FILL]					0.0		
4						0.0			
5	R2A (0-24"): Brown to dark gray medium SAND, some fine gravel, trace fine sand, brick, construction wood debris (moist)[FILL]					0.0			
6	R2B (24-36"): Light to dark gray medium SAND, some fine gravel, trace fine sand (wet)[FILL]	R-2	MACROCORE	48		0.0			
7	R2C (36-48"): Brown fine SAND, trace fine gravel, some medium sand (wet)[FILL]					0.0			
8						0.0			
9						0.0			
10	R3A (0-8"): Brown to dark gray fine SAND, some medium sand, fibrous organics (wet)[SP]	R-3	MACROCORE	16		0.0			
11						0.0			
12	R3B (8-16"): Light gray to brown SILT, trace fine sand (wet)[SP-SM]					0.0			
13	R4A (0-18"): Light gray to brown SILT, trace fine sand, (wet)[SP-SM]					0.0			
14	R4B (18-48"): Light gray to brown fine sand trace silt (wet)[SP-SM]	R-4	MACROCORE	48		0.0			
15						0.0			
16						0.0			
17						0.0			
18						0.0			
19						0.0			
20						0.0			

Project				Project No.							
46-81 Metropolitan Ave				170663101							
Location				Elevation and Datum							
Queens, NY				N/A							
Drilling Company				Date Started		Date Finished					
AARCO Environmental Services Corp.				2/16/21		2/16/21					
Drilling Equipment				Completion Depth		Rock Depth					
Geoprobe 7822 DT				16 ft		N/A					
Size and Type of Bit				Number of Samples		Disturbed		Undisturbed		Core	
2-inch-diameter Direct Push						4		N/A		N/A	
Casing Diameter (in)			Casing Depth (ft)	Water Level (ft.)		First		Completion		24 HR.	
N/A			N/A			4		N/A		N/A	
Casing Hammer		Weight (lbs)		Drop (in)		Drilling Foreman					
N/A		N/A		N/A		Thomas Harer					
Sampler				Field Engineer							
4-foot-long Macrocore with acetate liner				Tyler Zorn							
Sampler Hammer		Weight (lbs)		Drop (in)							
N/A		N/A		N/A							

MATERIAL SYMBOL	Elev. (ft)	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 (0-12"): Gray medium SAND, some fine gravel, concrete (dry)[FILL]	0					0.0	
		R1B (12-18"): Light gray to white medium SAND, some fine gravel, concrete (dry)[FILL]	1					0.0	
		R1C (18-32"): Dark gray fine SAND, trace fine gravel, some medium sand, brick (moist)[FILL]	2	R-1	MACROCORE	34		0.0	
			3					0.0	
			4					0.0	
		R2A (0-24"): Dark gray fine SAND, trace fine gravel, some medium sand, brick (wet)[FILL]	5					0.0	
			6	R-2	MACROCORE	48		0.0	
		R2B (24-48"): Gray to dark gray fine SAND, trace medium sand, trace silt (wet)[SP-SM]	7					0.0	
			8					0.0	
		R3A (0-24"): Gray to dark gray fine SAND, trace medium sand, trace silt (wet)[SP-SM]	9					0.0	
			10	R-3	MACROCORE	48		0.0	
		R3B (24-48"): Brown to gray medium SAND, some fine sand, trace silt (wet)[SP-SM]	11					0.0	
			12					0.0	
		R4: Brown to gray medium SAND, some fine sand, trace silt (wet)[SP-SM]	13					0.0	
			14	R-4	MACROCORE	48		0.0	
			15					0.0	
			16					0.0	
			17						
			18						
			19						
			20						

End of boring. Set 10-foot 0.020-slot well screen at about 13 feet. Temporary well was removed after sampling. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.

Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/12/21		Date Finished 2/12/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples 4		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 5		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Thomas Harer	
Sampler 4-foot-long Macrocore with acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	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 (0-14"): Light gray medium SAND, some fine gravel, trace fine sand, concrete (dry)[FILL]	0					0.0	Collect SB13_5-7
		R1B (14-18"): Light gray fine gravel, concrete (dry)[FILL]	1					0.0	
		R1C (18-38"): Brown fine SAND, trace medium sand, construction wood debris (moist)[FILL]	2	R-1	MACROCORE	38		0.0	
			3					0.0	
		4					0.0		
		R2A (0-24"): Brown to gray medium SAND, some fine gravel, trace fine sand, brick, construction wood debris (moist)[FILL]	4					0.0	
			5					0.0	
			6	R-2	MACROCORE	48		0.0	
			7					0.0	
			8					0.0	
		R3A (0-28"): Brown PEAT, trace clay (moist)[Pt]	9					0.0	
			10	R-3	MACROCORE	34		0.0	
		R3B (28-34"): Light brown to light gray CLAY, trace silt (wet)[ML]	11					0.0	
			12					0.0	
		R4: Light brown to light gray CLAY, trace silt (wet)[ML]	13					0.0	
			14	R-4	MACROCORE	48		0.0	
			15					0.0	
			16					0.0	
			17					0.0	
			18					0.0	
			19					0.0	
			20					0.0	

End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.

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Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/12/21		Date Finished 2/12/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples		Disturbed 4	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot-long Macrocore with acetate liner				Drilling Foreman Thomas Harer			
Sampler Hammer N/A				Field Engineer Tyler Zorn			
Sampler Hammer N/A				Weight (lbs) N/A			
Drop (in) N/A				Tyler Zorn			

MATERIAL SYMBOL	Elev. (ft)	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)		
	0	R1: Brown to dark brown medium SAND, some fine gravel, trace fine sand, glass (moist)[FILL]	0	R-1	MACROCORE	30			0.0	Collect SB14_6-8
	1		0.0							
	2		0.1							
	3		0.0							
	4	R2A (0-18"): Brown to dark brown medium SAND, some fine gravel, trace fine sand, ceramics, glass (moist)[FILL]	4	R-2	MACROCORE	36			0.0	
	5		0.0							
	6		0.0							
	7		0.0							
	8	R2B (18-36"): Dark brown to dark gray medium SAND, trace fine gravel, trace fine sand, ceramics (wet)[FILL]	8	R-3	MACROCORE	34			0.1	
	9		0.0							
	10		0.3							
	11		0.6							
	12	R3A (0-28"): Brown PEAT, trace clay (moist)[Pt]	12	R-4	MACROCORE	34			0.2	
	13		1.0							
	14		0.2							
	15		0.0							
16	R3B (28-34"): Light brown to light gray CLAY, trace silt (wet)[ML]	16	R-4	MACROCORE	34			0.0		
17		0.0								
18		0.0								
19		0.0								
20	R4: Light brown to light gray CLAY, trace silt (wet)[ML]	20	R-4	MACROCORE	34			0.0		
21		0.0								
22		0.0								
23		0.0								
24	End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.	24	R-4	MACROCORE	34			0.0		
25		0.0								
26		0.0								
27		0.0								

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Project 46-81 Metropolitan Ave				Project No. 170663101			
Location Queens, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services Corp.				Date Started 2/12/21		Date Finished 2/12/21	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch-diameter Direct Push				Number of Samples		Disturbed 4	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot-long Macrocore with acetate liner				Drilling Foreman Thomas Harer			
Sampler Hammer N/A				Field Engineer Tyler Zorn			
Sampler Hammer N/A				Weight (lbs) N/A			
Drop (in) N/A							

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recon. (in)	Penetr. resist. BL/in	PID Reading (ppm)	
	0	R1A (0-26"): Gray to dark brown medium SAND, some fine gravel, trace fine sand, brick, concrete (moist)[FILL]						0.3	Petroleum-like odor detected from 3 to 4 feet
	1						0.4		
	2						0.4		
	3						51.3		
	4	R1B (26-38"): Dark gray medium SAND, trace fine gravel, trace fine sand, brick, glass (moist)[FILL]						17.8	Petroleum-like odor detected from 4 to 8 feet
	5						15.7		
	6						13.5		
	7						9.6		
	8	R2A (0-14"): Dark brown to dark gray PEAT, trace clay (moist)[Pt]						11.8	Collect grab sample SB15_6-8
	9						86.7		
	10						139.3		
	11								
	12	R2B (14-42"): Brown to dark gray SILT, trace fine sand (wet)[SP-SM]							Petroleum-like odor detected from 8 to 12 feet
	13						74.6		
	14						32.8		
	15						23.2		
	16	R3: Tan to brown medium SAND, trace fine gravel, some fine sand (wet)[SW]						16.8	Petroleum-like odor detected from 12 to 16 feet
	17						15.7		
	18						18.7		
	19						17.2		
	20	R4: Tan to brown medium SAND, trace fine gravel, some fine sand (wet)[SW]						18.9	End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
	21						11.4		
	22						11.4		
	23						9.3		

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Project				Project No.							
46-81 Metropolitan Ave				170663101							
Location				Elevation and Datum							
Queens, NY				N/A							
Drilling Company				Date Started		Date Finished					
AARCO Environmental Services Corp.				2/16/21		2/16/21					
Drilling Equipment				Completion Depth		Rock Depth					
Geoprobe 7822 DT				16 ft		N/A					
Size and Type of Bit				Number of Samples		Disturbed		Undisturbed		Core	
2-inch-diameter Direct Push						4		N/A		N/A	
Casing Diameter (in)			Casing Depth (ft)	Water Level (ft.)		First		Completion		24 HR.	
N/A			N/A			5		N/A		N/A	
Casing Hammer		Weight (lbs)		Drop (in)		Drilling Foreman					
N/A		N/A		N/A		Thomas Harer					
Sampler				Field Engineer							
4-foot-long Macrocore with acetate liner				Tyler Zorn							
Sampler Hammer		Weight (lbs)		Drop (in)							
N/A		N/A		N/A							

MATERIAL SYMBOL	Elev. (ft)	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"): Brown fine SAND, trace fine gravel, some medium sand, concrete (dry)[FILL]	0					0.0	
		R1B (8-12"): Light gray medium SAND, some fine gravel, concrete (dry)[FILL]	1					0.0	
		R1C (12-28"): Dark brown to gray medium SAND, trace fine gravel, some fine sand, brick, glass (moist)[FILL]	2	R-1	MACROCORE	28		0.0	
			3						
		R2A (0-8"): Dark brown to gray medium SAND, trace fine gravel, some fine sand, brick, glass (wet)[FILL]	4						
			5					0.1	
		R2B (8-28"): Brown PEAT, trace clay (moist)[Pt]	6	R-2	MACROCORE	36		0.6	
			7					0.2	
		R2C (28-36"): Light gray to brown SILT, some fine sand (wet)[SP-SM]	8					0.0	
			9					0.0	
		R3A (0-14"): Light gray to brown SILT, some fine sand (wet)[SP-SM]	10	R-3	MACROCORE	30		0.0	
			11					0.0	
		R3B (14-30"): Brown medium SAND, some fine sand (wet) [SP]	12					0.0	
			13					0.0	
		R4: Brown medium SAND, trace fine gravel, some fine sand (wet) [SP]	14	R-4	MACROCORE	34		0.0	
			15					0.0	
			16					0.0	
			17						End of boring. Borehole backfilled with No. 2 sand to surrounding surface grade and capped with cold patch asphalt.
			18						
			19						
			20						

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APPENDIX C

Groundwater Sampling Logs

[illegible]

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	46-81 Metropolitan Ave	Well No:	MW11	Water Quality Device Model:	Horiba U-52	Weather:	45 Partly Cloudy	Sample(s):	MW11_021621
Project Number:	170663101	Well Depth:	16 feet	Pine Number:	16192	Background PID (ppm):	0.0		
Site Location:	46-81 Metropolitan Ave	Well Diameter:	1 inch	Pump Make and Model:	Pine Peri Pump	PID Beneath Inner Cap (ppm):	0		
Sampling Personnel:	Michael Au	Well Screen Interval:	0 feet 16 feet	Pine Number:	019539	Pump Intake Depth:	9 feet	Sample Date:	2/16/2021
				Tubing Diameter:	3/8 OD	Depth to Water Before Purge:	4.75	Sample Time:	15:05

STABILIZATION = 3 successive readings within limits

	TEMP °Celsius	PH	ORP mV	CONDUCTIVITY mS/cm	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)							

BEGIN PURGING

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

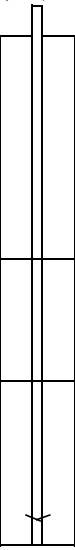
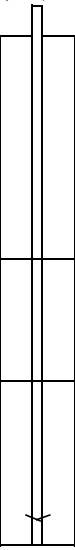
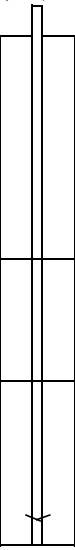
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[illegible]

APPENDIX D

Sub-Slab and Soil Vapor Construction Logs

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET
 Sample Number: SSV01

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101																														
LOCATION: Queens, NY		SURFACE ELEVATION AND DATUM (NAV88): N/A																														
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Service Corp.		INSTALLATION DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																													
INSTALLATION FOREMAN: Thomas Harer		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																													
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																														
INSPECTOR: Tyler Zorn		SAMPLER: Tyler Zorn																														
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 30-48 °F Wind: WSW 16 mph Precipitation: Rain Pressure: 29.61 inHG																														
METHOD OF INSTALLATION AND PURGING: AARCO advanced subslab vapor point to 2-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. The remainder of the borehole was sealed with bentonite.																																
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: Bentonite																														
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																														
BOREHOLE DIAMETER: 1-1/8-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand																														
PURGE VOLUME (L): 0.40 PURGE FLOW RATE (ML/MIN): 200 PID AFTER PURGE (PPM): 0.0 HELIUM TESTS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>Pre-sampling</th> <th>Post-sampling</th> </tr> <tr> <td>HELIUM TEST IN BUCKET(%):</td> <td>11.3%</td> <td>12.1%</td> </tr> <tr> <td>HELIUM TEST IN TUBE (PPM):</td> <td>0.0</td> <td>0.0</td> </tr> </table> SAMPLE START TIME: 11:07 SAMPLE STOP TIME: 13:07 TOTAL SAMPLE TIME (MIN): 120 REGULATOR FLOW RATE (L/MIN): 0.018 VOLUME OF SAMPLE (LITERS): 2.7 L PID AFTER SAMPLE (PPM): 0.0 SAMPLE MOISTURE CONTENT: N/A CAN SERIAL NUMBER: 263 REGULATOR SERIAL NUMBER: 1146 CAN START VACUUM PRESS. (" HG): -30.21 CAN STOP VACUUM PRESS. (" HG): -6.78			Pre-sampling	Post-sampling	HELIUM TEST IN BUCKET(%):	11.3%	12.1%	HELIUM TEST IN TUBE (PPM):	0.0	0.0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="text-align: center;">DEPTH (FEET FROM SURFACE)</th> <th style="text-align: center;">NOTES</th> </tr> <tr> <td style="width: 10%;">SURFACE</td> <td style="width: 10%; text-align: center;">  </td> <td style="width: 10%;">SURFACE</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Top of Seal</td> <td style="text-align: center;">0:00</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.66</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Tube Depth</td> <td style="text-align: center;">0.83</td> <td></td> </tr> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE		SURFACE			Top of Seal	0:00			Top of Pack	0.66			Tube Depth	0.83	
	Pre-sampling	Post-sampling																														
HELIUM TEST IN BUCKET(%):	11.3%	12.1%																														
HELIUM TEST IN TUBE (PPM):	0.0	0.0																														
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES																													
SURFACE		SURFACE																														
	Top of Seal	0:00																														
	Top of Pack	0.66																														
	Tube Depth	0.83																														
SAMPLE LOCATION SKETCH		NOTES																														
See Sample Location Plan																																

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Sample Number: SV01

Page 2 of 7

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV02

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101																			
LOCATION: Queens NY		SURFACE ELEVATION AND DATUM (NAV88): N/A																			
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Service Corp.		INSTALLATION DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																		
INSTALLATION FOREMAN: Thomas Harer		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																		
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																			
INSPECTOR: Tyler Zorn		SAMPLER: Tyler Zorn																			
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 30-48 °F Wind: WSW 16 mph Precipitation: Rain Pressure: 29.61 inHG																			
AARCO advanced Geoprobe 7822 DT to 4 feet below grade surface (bgs), where groundwater was encountered. Installed 2-inch soil vapor probe at 2 feet bgs, backfilled with No. 2 sand to 1 feet bgs, and sealed to surface with hydrated bentonite.																					
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: Bentonite																			
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																			
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand																			
PURGE VOLUME (L):	0.40	<table border="1"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS</th> <th rowspan="2">DEPTH (FEET FROM SURFACE)</th> <th rowspan="2">NOTES</th> </tr> <tr> <th colspan="2">(SEAL, FILTER, ETC.)</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td>SURFACE</td> <td></td> <td></td> </tr> <tr> <td colspan="2" rowspan="3"> </td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS		DEPTH (FEET FROM SURFACE)	NOTES	(SEAL, FILTER, ETC.)		SURFACE	SURFACE										
IMPLANT/PROBE DETAILS				DEPTH (FEET FROM SURFACE)	NOTES																
(SEAL, FILTER, ETC.)																					
SURFACE	SURFACE																				
PURGE FLOW RATE (ML/MIN):	200																				
PID AFTER PURGE (PPM):	0.0																				
HELIUM TESTS																					
	Pre-sampling Post-sampling																				
HELIUM TEST IN BUCKET(%):	11.1% 10.8%																				
HELIUM TEST IN TUBE (PPM):	0.0 0.0																				
SAMPLE START TIME:	10:10																				
SAMPLE STOP TIME:	12:10																				
TOTAL SAMPLE TIME (MIN):	120																				
REGULATOR FLOW RATE (L/MIN):	0.018																				
VOLUME OF SAMPLE (LITERS):	2.7 L																				
PID AFTER SAMPLE (PPM):	0.0																				
SAMPLE MOISTURE CONTENT:	N/A																				
CAN SERIAL NUMBER:	3200																				
REGULATOR SERIAL NUMBER:	1245																				
CAN START VACUUM PRESS. (" HG):	-30.00																				
CAN STOP VACUUM PRESS. (" HG):	-6.56																				
SAMPLE LOCATION SKETCH		NOTES																			
See Sample Location Plan																					

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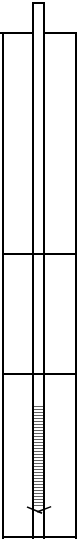
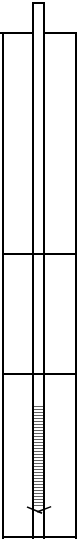
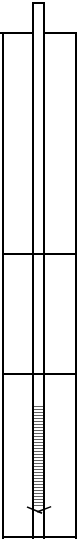
SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV03

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101	
LOCATION: Queens NY		SURFACE ELEVATION AND DATUM (NAV88): N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Service Corp.		INSTALLATION DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021
INSTALLATION FOREMAN: Thomas Harer		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
INSPECTOR: Tyler Zorn		SAMPLER: Tyler Zorn	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 30-48 °F Wind: WSW 16 mph Precipitation: Rain Pressure: 29.61 inHG	
AARCO advanced Geoprobe 7822 DT to 4 feet below grade surface (bgs), where groundwater was encountered. Installed 2-inch soil vapor probe at 2 feet bgs, backfilled with No. 2 sand to 1 feet bgs, and sealed to surface with hydrated bentonite.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: Bentonite	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.40	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0.0		
HELIUM TESTS	Pre-sampling Post-sampling		
HELIUM TEST IN BUCKET(%):	10.4% 10.4%	Top of Seal 0.00 Top of Pack 1.00 Probe Depth 2.00	
HELIUM TEST IN TUBE (PPM):	0.0 0.0		
SAMPLE START TIME:	10:45	NOTES	
SAMPLE STOP TIME:	12:46		
TOTAL SAMPLE TIME (MIN):	121		
REGULATOR FLOW RATE (L/MIN):	0.018		
VOLUME OF SAMPLE (LITERS):	2.7 L		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	2558		
REGULATOR SERIAL NUMBER:	1879		
CAN START VACUUM PRESS. (" HG):	-29.95		
CAN STOP VACUUM PRESS. (" HG):	-6.97		
SAMPLE LOCATION SKETCH			
See Sample Location Plan			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV04

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101																			
LOCATION: Queens NY		SURFACE ELEVATION AND DATUM (NAV88): N/A																			
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Service Corp.		INSTALLATION DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																		
INSTALLATION FOREMAN: Thomas Harer		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																		
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																			
INSPECTOR: Tyler Zorn		SAMPLER: Tyler Zorn																			
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 30-48 °F Wind: WSW 16 mph Precipitation: Rain Pressure: 29.61 inHG																			
AARCO advanced Geoprobe 7822 DT to 4 feet below grade surface (bgs), where groundwater was encountered. Installed 2-inch soil vapor probe at 2 feet bgs, backfilled with No. 2 sand to 1 feet bgs, and sealed to surface with hydrated bentonite.																					
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: Bentonite																			
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																			
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand																			
PURGE VOLUME (L):	0.40	<table border="1"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td>SURFACE</td> <td></td> <td></td> </tr> <tr> <td colspan="2" rowspan="4">  </td> <td>Top of Seal</td> <td>0.00</td> </tr> <tr> <td>Top of Pack</td> <td>1.00</td> </tr> <tr> <td>Probe Depth</td> <td>2.00</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE					Top of Seal	0.00	Top of Pack	1.00	Probe Depth	2.00		
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES																
SURFACE	SURFACE																				
				Top of Seal	0.00																
				Top of Pack	1.00																
				Probe Depth	2.00																
PURGE FLOW RATE (ML/MIN):	200																				
PID AFTER PURGE (PPM):	0.0																				
HELIUM TESTS																					
	Pre-sampling Post-sampling																				
HELIUM TEST IN BUCKET(%):	10.1% 10.5%																				
HELIUM TEST IN TUBE (PPM):	0.0 0.0																				
SAMPLE START TIME:	10:32																				
SAMPLE STOP TIME:	12:32																				
TOTAL SAMPLE TIME (MIN):	120																				
REGULATOR FLOW RATE (L/MIN):	0.018																				
VOLUME OF SAMPLE (LITERS):	2.7 L																				
PID AFTER SAMPLE (PPM):	0.0																				
SAMPLE MOISTURE CONTENT:	N/A																				
CAN SERIAL NUMBER:	3207																				
REGULATOR SERIAL NUMBER:	1095																				
CAN START VACUUM PRESS. (" HG):	-29.98																				
CAN STOP VACUUM PRESS. (" HG):	-6.86																				
SAMPLE LOCATION SKETCH		NOTES																			
See Sample Location Plan																					
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV05

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101																																				
LOCATION: Queens NY		SURFACE ELEVATION AND DATUM (NAV88): N/A																																				
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Service Corp.		INSTALLATION DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																																			
INSTALLATION FOREMAN: Thomas Harer		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021																																			
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																																				
INSPECTOR: Tyler Zorn		SAMPLER: Tyler Zorn																																				
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 30-48 °F Wind: WSW 16 mph Precipitation: Rain Pressure: 29.61 inHG																																				
AARCO advanced Geoprobe 7822 DT to 4 feet below grade surface (bgs), where groundwater was encountered. Installed 2-inch soil vapor probe at 2 feet bgs, backfilled with No. 2 sand to 1 feet bgs, and sealed to surface with hydrated bentonite.																																						
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: Bentonite																																				
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																																				
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand																																				
PURGE VOLUME (L):	0.40	<table border="1"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS</th> <th rowspan="2">DEPTH (FEET FROM SURFACE)</th> <th rowspan="2">NOTES</th> </tr> <tr> <th colspan="2">(SEAL, FILTER, ETC.)</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td>SURFACE</td> <td></td> <td></td> </tr> <tr> <td colspan="2" rowspan="4"> </td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Top of Seal</td> <td>0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Top of Pack</td> <td>1.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Probe Depth</td> <td>2.00</td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS		DEPTH (FEET FROM SURFACE)	NOTES	(SEAL, FILTER, ETC.)		SURFACE	SURFACE															Top of Seal	0.00				Top of Pack	1.00				Probe Depth	2.00	
IMPLANT/PROBE DETAILS				DEPTH (FEET FROM SURFACE)	NOTES																																	
(SEAL, FILTER, ETC.)																																						
SURFACE	SURFACE																																					
				Top of Seal	0.00																																	
				Top of Pack	1.00																																	
				Probe Depth	2.00																																	
PURGE FLOW RATE (ML/MIN):	200																																					
PID AFTER PURGE (PPM):	0.0																																					
HELIUM TESTS																																						
	Pre-sampling Post-sampling																																					
HELIUM TEST IN BUCKET(%):	11.7% 10.6%																																					
HELIUM TEST IN TUBE (PPM):	0.0 0.0																																					
SAMPLE START TIME:	11:47																																					
SAMPLE STOP TIME:	13:47																																					
TOTAL SAMPLE TIME (MIN):	120																																					
REGULATOR FLOW RATE (L/MIN):	0.018																																					
VOLUME OF SAMPLE (LITERS):	2.7 L																																					
PID AFTER SAMPLE (PPM):	0.0																																					
SAMPLE MOISTURE CONTENT:	N/A																																					
CAN SERIAL NUMBER:	1727																																					
REGULATOR SERIAL NUMBER:	1263																																					
CAN START VACUUM PRESS. (" HG):	-30.13																																					
CAN STOP VACUUM PRESS. (" HG):	-6.19																																					
SAMPLE LOCATION SKETCH		NOTES																																				
See Sample Location Plan																																						
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AIR SAMPLING LOG SHEET

Sample Number: AA01

PROJECT: 46-81 Metropolitan Ave		PROJECT NO.: 170663101	
LOCATION: Queens, NY		SURFACE ELEVATION AND DATUM (NAV88): N/A	
SAMPLER: Tyler Zorn		SAMPLE DATE STARTED: 2/16/2021	DATE FINISHED: 2/16/2021
INSPECTOR: Tyler Zorn		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	30-48 °F
		Wind:	WSW 16 mph
		Precipitation:	Rain
		Pressure:	29.61 inHG
METHOD OF INSTALLATION AND SAMPLING: Langan field screened the sample location with a MultiRAE chemical detector prior to sampling. Sample consisted of 2.7L Summa canister fitted with a 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.			
SAMPLE DETAILS		SAMPLE LOCATION SKETCH	
HEIGHT ABOVE GROUND (FT):	3.5	See Sample Location Plan	
PID BEFORE SAMPLE (PPM):	0.0		
SAMPLE START TIME:	10:13		
SAMPLE STOP TIME:	12:13		
TOTAL SAMPLE TIME (MIN):	120		
REGULATOR FLOW RATE (L/MIN):	0.018		
VOLUME OF SAMPLE (LITERS):	2.7 L		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	157		
REGULATOR SERIAL NUMBER:	1335		
CAN START VACUUM PRESS. (" HG):	-29.89		
CAN STOP VACUUM PRESS. (" HG):	-6.26		
NOTES			
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APPENDIX E

Analytical Laboratory Reports



ANALYTICAL REPORT

Lab Number:	L2107478
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Paul McMahon
Phone:	(212) 479-5429
Project Name:	46-81 METROPOLITAN AVE
Project Number:	170663101
Report Date:	02/23/21

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), 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 #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2107478-01	SV01_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 12:00	02/16/21
L2107478-02	SV02_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 12:10	02/16/21
L2107478-03	AA01_021621	AIR	QUEENS, NY	02/16/21 12:13	02/16/21
L2107478-04	SV04_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 12:32	02/16/21
L2107478-05	SV03_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 12:46	02/16/21
L2107478-06	SSV01_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 13:07	02/16/21
L2107478-07	SV05_021621	SOIL_VAPOR	QUEENS, NY	02/16/21 13:47	02/16/21
L2107478-08	UNUSED CAN# 3113	AIR	QUEENS, NY		02/16/21

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 11, 2021. The canister certification results are provided as an addendum.

L2107478-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2107478-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2107478-04D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2107478-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1467099-3 LCS recoveries for bromoform (135%), benzyl chloride (174%) and 1,2,4-trichlorobenzene (134%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

TO15-SIM

L2107478-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2107478-06D: The sample has elevated detection limits due to the dilution required by the elevated

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

Case Narrative (continued)

concentrations of target compounds in the sample.

L2107478-06D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 02/23/21

AIR

Project Name: 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107478**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-01 D

Client ID: SV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:00

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/23/21 04:50

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	15.7	10.0	--	29.6	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	14.9	2.00	--	35.4	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	2.68	1.00	--	8.12	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	0.512	0.400	--	1.59	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	123	1.00	--	363	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-01 D

Client ID: SV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:00

Date Received: 02/16/21

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	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	7.59	0.400	--	26.7	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	0.640	0.400	--	2.04	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	59.1	0.400	--	203	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
Xylenes, Total	55.2	0.400	--	240	1.74	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	23.5	0.400	--	110	1.87	--		2
Heptane	2.40	0.400	--	9.84	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	19.1	1.00	--	78.3	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	3.51	0.400	--	13.2	1.51	--		2
2-Hexanone	11.2	0.400	--	45.9	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-01 D

Client ID: SV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:00

Date Received: 02/16/21

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								
Ethylbenzene	2.09	0.400	--	9.08	1.74	--		2
p/m-Xylene	30.2	0.800	--	131	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	24.9	0.400	--	108	1.74	--		2
4-Ethyltoluene	17.1	0.400	--	84.1	1.97	--		2
1,3,5-Trimethylbenzene	22.7	0.400	--	112	1.97	--		2
1,2,4-Trimethylbenzene	70.6	0.400	--	347	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	111		60-140



Project Name: 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107478**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-02 D

Client ID: SV02_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:10

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/23/21 05:27

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.400	--	ND	1.98	--		2
Chloromethane	0.644	0.400	--	1.33	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	2.34	0.400	--	5.18	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	17.9	10.0	--	33.7	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	13.4	2.00	--	31.8	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	1.87	1.00	--	5.67	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	4.88	0.400	--	15.2	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	77.8	1.00	--	229	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-02 D

Client ID: SV02_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:10

Date Received: 02/16/21

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	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	24.1	0.400	--	84.9	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	1.20	0.400	--	3.83	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	6.62	0.400	--	22.8	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
Xylenes, Total	47.5	0.400	--	206	1.74	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	7.07	0.400	--	33.0	1.87	--		2
Heptane	7.02	0.400	--	28.8	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	4.33	0.400	--	16.3	1.51	--		2
2-Hexanone	11.2	0.400	--	45.9	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-02 D

Client ID: SV02_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:10

Date Received: 02/16/21

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								
Ethylbenzene	2.07	0.400	--	8.99	1.74	--		2
p/m-Xylene	26.3	0.800	--	114	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	21.2	0.400	--	92.1	1.74	--		2
4-Ethyltoluene	21.7	0.400	--	107	1.97	--		2
1,3,5-Trimethylbenzene	34.0	0.400	--	167	1.97	--		2
1,2,4-Trimethylbenzene	116	0.400	--	570	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-03

Client ID: AA01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:13

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 18:58

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.447	0.200	--	2.21	0.989	--		1
Chloromethane	0.520	0.200	--	1.07	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	9.43	5.00	--	17.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.20	1.00	--	7.60	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--		1
Isopropanol	3.53	0.500	--	8.68	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
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-03

Client ID: AA01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:13

Date Received: 02/16/21

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	0.560	0.200	--	1.97	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.407	0.200	--	1.30	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.309	0.200	--	1.06	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
Xylenes, Total	1.35	0.200	--	5.86	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.762	0.200	--	3.56	0.934	--		1
Heptane	0.505	0.200	--	2.07	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	1.77	0.200	--	6.67	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: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-03

Client ID: AA01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:13

Date Received: 02/16/21

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								
Ethylbenzene	0.283	0.200	--	1.23	0.869	--		1
p/m-Xylene	0.982	0.400	--	4.27	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	0.370	0.200	--	1.61	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	0.433	0.200	--	2.13	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	95		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-04
 Client ID: SV04_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:32
 Date Received: 02/16/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 02/22/21 23:07
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	0.332	0.200	--	0.686	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	3.10	0.200	--	6.86	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	16.6	5.00	--	31.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	30.1	1.00	--	71.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.930	0.500	--	2.29	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.36	0.500	--	4.12	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	6.11	0.200	--	19.0	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
2-Butanone	140	0.500	--	413	1.47	--	E	1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-04

Client ID: SV04_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:32

Date Received: 02/16/21

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	19.6	0.200	--	69.1	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.56	0.200	--	4.98	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	10.1	0.200	--	34.8	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Xylenes, Total	50.0	0.200	--	217	0.869	--		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	10.4	0.200	--	48.6	0.934	--		1
Heptane	5.90	0.200	--	24.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.03	0.500	--	4.22	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	7.09	0.200	--	26.7	0.754	--		1
2-Hexanone	12.8	0.200	--	52.5	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: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-04

Date Collected: 02/16/21 12:32

Client ID: SV04_021621

Date Received: 02/16/21

Sample Location: QUEENS, 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								
Ethylbenzene	3.82	0.200	--	16.6	0.869	--		1
p/m-Xylene	27.8	0.400	--	121	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	22.2	0.200	--	96.4	0.869	--		1
4-Ethyltoluene	10.7	0.200	--	52.6	0.983	--		1
1,3,5-Trimethylbenzene	18.1	0.200	--	89.0	0.983	--		1
1,2,4-Trimethylbenzene	42.9	0.200	--	211	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	100		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	105		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-04 D

Client ID: SV04_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:32

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/23/21 08:10

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Butanone	150	1.25	--	442	3.69	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	102		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-05 D

Client ID: SV03_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:46

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/23/21 06:04

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.67	--	ND	8.26	--		8.333
Chloromethane	ND	1.67	--	ND	3.45	--		8.333
Freon-114	ND	1.67	--	ND	11.7	--		8.333
1,3-Butadiene	ND	1.67	--	ND	3.69	--		8.333
Bromomethane	ND	1.67	--	ND	6.48	--		8.333
Chloroethane	ND	1.67	--	ND	4.41	--		8.333
Ethanol	ND	41.7	--	ND	78.6	--		8.333
Vinyl bromide	ND	1.67	--	ND	7.30	--		8.333
Acetone	ND	8.33	--	ND	19.8	--		8.333
Trichlorofluoromethane	ND	1.67	--	ND	9.38	--		8.333
Isopropanol	ND	4.17	--	ND	10.3	--		8.333
Tertiary butyl Alcohol	ND	4.17	--	ND	12.6	--		8.333
Methylene chloride	ND	4.17	--	ND	14.5	--		8.333
3-Chloropropene	ND	1.67	--	ND	5.23	--		8.333
Carbon disulfide	ND	1.67	--	ND	5.20	--		8.333
Freon-113	ND	1.67	--	ND	12.8	--		8.333
trans-1,2-Dichloroethene	ND	1.67	--	ND	6.62	--		8.333
1,1-Dichloroethane	ND	1.67	--	ND	6.76	--		8.333
Methyl tert butyl ether	ND	1.67	--	ND	6.02	--		8.333
2-Butanone	78.7	4.17	--	232	12.3	--		8.333
Ethyl Acetate	ND	4.17	--	ND	15.0	--		8.333
Chloroform	ND	1.67	--	ND	8.16	--		8.333
Tetrahydrofuran	ND	4.17	--	ND	12.3	--		8.333



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-05 D

Client ID: SV03_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:46

Date Received: 02/16/21

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								
1,2-Dichloroethane	ND	1.67	--	ND	6.76	--		8.333
n-Hexane	33.8	1.67	--	119	5.89	--		8.333
Benzene	ND	1.67	--	ND	5.34	--		8.333
Cyclohexane	7.47	1.67	--	25.7	5.75	--		8.333
1,2-Dichloropropane	ND	1.67	--	ND	7.72	--		8.333
Bromodichloromethane	ND	1.67	--	ND	11.2	--		8.333
1,4-Dioxane	ND	1.67	--	ND	6.02	--		8.333
2,2,4-Trimethylpentane	405	1.67	--	1890	7.80	--		8.333
Heptane	2.92	1.67	--	12.0	6.84	--		8.333
cis-1,3-Dichloropropene	ND	1.67	--	ND	7.58	--		8.333
Xylenes, Total	14.6	1.67	--	63.4	7.25	--		8.333
4-Methyl-2-pentanone	ND	4.17	--	ND	17.1	--		8.333
trans-1,3-Dichloropropene	ND	1.67	--	ND	7.58	--		8.333
1,1,2-Trichloroethane	ND	1.67	--	ND	9.11	--		8.333
Toluene	3.95	1.67	--	14.9	6.29	--		8.333
2-Hexanone	ND	1.67	--	ND	6.84	--		8.333
Dibromochloromethane	ND	1.67	--	ND	14.2	--		8.333
1,2-Dibromoethane	ND	1.67	--	ND	12.8	--		8.333
Chlorobenzene	ND	1.67	--	ND	7.69	--		8.333
Ethylbenzene	ND	1.67	--	ND	7.25	--		8.333
p/m-Xylene	8.75	3.33	--	38.0	14.5	--		8.333
Bromoform	ND	1.67	--	ND	17.3	--		8.333
Styrene	ND	1.67	--	ND	7.11	--		8.333
1,1,1,2,2-Tetrachloroethane	ND	1.67	--	ND	11.5	--		8.333
o-Xylene	5.89	1.67	--	25.6	7.25	--		8.333
4-Ethyltoluene	4.02	1.67	--	19.8	8.21	--		8.333



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-05 D

Client ID: SV03_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:46

Date Received: 02/16/21

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								
1,3,5-Trimethylbenzene	7.12	1.67	--	35.0	8.21	--		8.333
1,2,4-Trimethylbenzene	19.8	1.67	--	97.3	8.21	--		8.333
Benzyl chloride	ND	1.67	--	ND	8.65	--		8.333
1,3-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,4-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,2-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,2,4-Trichlorobenzene	ND	1.67	--	ND	12.4	--		8.333
Hexachlorobutadiene	ND	1.67	--	ND	17.8	--		8.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	92		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-05 D

Client ID: SV03_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:46

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 02/23/21 06:04

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	0.167	--	ND	0.427	--		8.333
1,1-Dichloroethene	ND	0.167	--	ND	0.662	--		8.333
cis-1,2-Dichloroethene	ND	0.167	--	ND	0.662	--		8.333
1,1,1-Trichloroethane	ND	0.167	--	ND	0.911	--		8.333
Carbon tetrachloride	ND	0.167	--	ND	1.05	--		8.333
Trichloroethene	ND	0.167	--	ND	0.897	--		8.333
Tetrachloroethene	ND	0.167	--	ND	1.13	--		8.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-06 D

Client ID: SSV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:07

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/23/21 06:42

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.35	--	ND	31.4	--		31.77
Chloromethane	ND	6.35	--	ND	13.1	--		31.77
Freon-114	ND	6.35	--	ND	44.4	--		31.77
1,3-Butadiene	ND	6.35	--	ND	14.0	--		31.77
Bromomethane	ND	6.35	--	ND	24.7	--		31.77
Chloroethane	ND	6.35	--	ND	16.8	--		31.77
Ethanol	ND	159	--	ND	300	--		31.77
Vinyl bromide	ND	6.35	--	ND	27.8	--		31.77
Acetone	53.1	31.8	--	126	75.5	--		31.77
Trichlorofluoromethane	ND	6.35	--	ND	35.7	--		31.77
Isopropanol	71.7	15.9	--	176	39.1	--		31.77
Tertiary butyl Alcohol	ND	15.9	--	ND	48.2	--		31.77
Methylene chloride	ND	15.9	--	ND	55.2	--		31.77
3-Chloropropene	ND	6.35	--	ND	19.9	--		31.77
Carbon disulfide	8.26	6.35	--	25.7	19.8	--		31.77
Freon-113	ND	6.35	--	ND	48.7	--		31.77
trans-1,2-Dichloroethene	ND	6.35	--	ND	25.2	--		31.77
1,1-Dichloroethane	ND	6.35	--	ND	25.7	--		31.77
Methyl tert butyl ether	ND	6.35	--	ND	22.9	--		31.77
2-Butanone	ND	15.9	--	ND	46.9	--		31.77
Ethyl Acetate	ND	15.9	--	ND	57.3	--		31.77
Chloroform	ND	6.35	--	ND	31.0	--		31.77
Tetrahydrofuran	ND	15.9	--	ND	46.9	--		31.77



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-06 D

Client ID: SSV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:07

Date Received: 02/16/21

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								
1,2-Dichloroethane	ND	6.35	--	ND	25.7	--		31.77
n-Hexane	42.4	6.35	--	149	22.4	--		31.77
Benzene	ND	6.35	--	ND	20.3	--		31.77
Cyclohexane	38.8	6.35	--	134	21.9	--		31.77
1,2-Dichloropropane	ND	6.35	--	ND	29.3	--		31.77
Bromodichloromethane	ND	6.35	--	ND	42.5	--		31.77
1,4-Dioxane	ND	6.35	--	ND	22.9	--		31.77
2,2,4-Trimethylpentane	1930	6.35	--	9010	29.7	--		31.77
Heptane	ND	6.35	--	ND	26.0	--		31.77
cis-1,3-Dichloropropene	ND	6.35	--	ND	28.8	--		31.77
4-Methyl-2-pentanone	ND	15.9	--	ND	65.2	--		31.77
Xylenes, Total	ND	6.35	--	ND	27.6	--		31.77
trans-1,3-Dichloropropene	ND	6.35	--	ND	28.8	--		31.77
1,1,2-Trichloroethane	ND	6.35	--	ND	34.6	--		31.77
Toluene	ND	6.35	--	ND	23.9	--		31.77
2-Hexanone	ND	6.35	--	ND	26.0	--		31.77
Dibromochloromethane	ND	6.35	--	ND	54.1	--		31.77
1,2-Dibromoethane	ND	6.35	--	ND	48.8	--		31.77
Chlorobenzene	ND	6.35	--	ND	29.2	--		31.77
Ethylbenzene	ND	6.35	--	ND	27.6	--		31.77
p/m-Xylene	ND	12.7	--	ND	55.2	--		31.77
Bromoform	ND	6.35	--	ND	65.7	--		31.77
Styrene	ND	6.35	--	ND	27.0	--		31.77
1,1,1,2-Tetrachloroethane	ND	6.35	--	ND	43.6	--		31.77
o-Xylene	ND	6.35	--	ND	27.6	--		31.77
4-Ethyltoluene	ND	6.35	--	ND	31.2	--		31.77



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-06 D

Client ID: SSV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:07

Date Received: 02/16/21

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								
1,3,5-Trimethylbenzene	ND	6.35	--	ND	31.2	--		31.77
1,2,4-Trimethylbenzene	ND	6.35	--	ND	31.2	--		31.77
Benzyl chloride	ND	6.35	--	ND	32.9	--		31.77
1,3-Dichlorobenzene	ND	6.35	--	ND	38.2	--		31.77
1,4-Dichlorobenzene	ND	6.35	--	ND	38.2	--		31.77
1,2-Dichlorobenzene	ND	6.35	--	ND	38.2	--		31.77
1,2,4-Trichlorobenzene	ND	6.35	--	ND	47.1	--		31.77
Hexachlorobutadiene	ND	6.35	--	ND	67.7	--		31.77

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-06 D

Client ID: SSV01_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:07

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 02/23/21 06:42

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	2.22	0.635	--	5.67	1.62	--		31.77
1,1-Dichloroethene	ND	0.635	--	ND	2.52	--		31.77
cis-1,2-Dichloroethene	ND	0.635	--	ND	2.52	--		31.77
1,1,1-Trichloroethane	ND	0.635	--	ND	3.46	--		31.77
Carbon tetrachloride	ND	0.635	--	ND	3.99	--		31.77
Trichloroethene	1.87	0.635	--	10.0	3.41	--		31.77
Tetrachloroethene	27.7	0.635	--	188	4.31	--		31.77

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-07

Client ID: SV05_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:47

Date Received: 02/16/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 23:47

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.47	0.200	--	7.27	0.989	--		1
Chloromethane	0.489	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	4.29	0.200	--	9.49	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	11.8	5.00	--	22.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.2	1.00	--	26.6	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.500	0.500	--	1.23	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	28.4	0.200	--	88.4	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
2-Butanone	88.9	0.500	--	262	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-07

Client ID: SV05_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:47

Date Received: 02/16/21

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	6.97	0.200	--	24.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.79	0.200	--	5.72	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	2.93	0.200	--	10.1	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
Xylenes, Total	27.5	0.200	--	119	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	4.40	0.200	--	20.6	0.934	--		1
Heptane	2.96	0.200	--	12.1	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	11.0	0.200	--	41.5	0.754	--		1
2-Hexanone	9.16	0.200	--	37.5	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: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**SAMPLE RESULTS**

Lab ID: L2107478-07

Client ID: SV05_021621

Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:47

Date Received: 02/16/21

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								
Ethylbenzene	2.31	0.200	--	10.0	0.869	--		1
p/m-Xylene	15.8	0.400	--	68.6	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	11.7	0.200	--	50.8	0.869	--		1
4-Ethyltoluene	4.23	0.200	--	20.8	0.983	--		1
1,3,5-Trimethylbenzene	8.24	0.200	--	40.5	0.983	--		1
1,2,4-Trimethylbenzene	19.9	0.200	--	97.8	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	98		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 02/22/21 15:05

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 05-06 Batch: WG1467086-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,05-06 Batch: WG1467092-4								
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
Xylenes, Total	ND	0.200	--	ND	0.869	--		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



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,05-06 Batch: WG1467092-4								
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
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,05-06 Batch: WG1467092-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 17:39

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03-04,07 Batch: WG1467099-4								
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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, Total	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 17:39

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03-04,07 Batch: WG1467099-4								
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
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/21 17:39

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03-04,07 Batch: WG1467099-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 05-06 Batch: WG1467086-3								
Vinyl chloride	85		-		70-130	-		25
1,1-Dichloroethene	89		-		70-130	-		25
cis-1,2-Dichloroethene	86		-		70-130	-		25
1,1,1-Trichloroethane	97		-		70-130	-		25
Carbon tetrachloride	104		-		70-130	-		25
Trichloroethene	101		-		70-130	-		25
Tetrachloroethene	98		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,05-06 Batch: WG1467092-3								
Dichlorodifluoromethane	90		-		70-130	-		
Chloromethane	82		-		70-130	-		
Freon-114	92		-		70-130	-		
Vinyl chloride	87		-		70-130	-		
1,3-Butadiene	94		-		70-130	-		
Bromomethane	86		-		70-130	-		
Chloroethane	85		-		70-130	-		
Ethanol	81		-		40-160	-		
Vinyl bromide	80		-		70-130	-		
Acetone	63		-		40-160	-		
Trichlorofluoromethane	86		-		70-130	-		
Isopropanol	68		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	77		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	82		-		70-130	-		
Carbon disulfide	83		-		70-130	-		
Freon-113	86		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,05-06 Batch: WG1467092-3								
Ethyl Acetate	91		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
1,2-Dichloroethane	88		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
Benzene	106		-		70-130	-		
Carbon tetrachloride	104		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	103		-		70-130	-		
cis-1,3-Dichloropropene	119		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	101		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	95		-		70-130	-		
2-Hexanone	112		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	115		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,05-06 Batch: WG1467092-3								
Tetrachloroethene	98		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	103		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	106		-		70-130	-		
Styrene	115		-		70-130	-		
1,1,2,2-Tetrachloroethane	109		-		70-130	-		
o-Xylene	104		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	114		-		70-130	-		
Benzyl chloride	106		-		70-130	-		
1,3-Dichlorobenzene	113		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
1,2,4-Trichlorobenzene	125		-		70-130	-		
Hexachlorobutadiene	120		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03-04,07 Batch: WG1467099-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	96		-		70-130	-		
Freon-114	106		-		70-130	-		
Vinyl chloride	114		-		70-130	-		
1,3-Butadiene	108		-		70-130	-		
Bromomethane	114		-		70-130	-		
Chloroethane	115		-		70-130	-		
Ethanol	96		-		40-160	-		
Vinyl bromide	111		-		70-130	-		
Acetone	74		-		40-160	-		
Trichlorofluoromethane	104		-		70-130	-		
Isopropanol	83		-		40-160	-		
1,1-Dichloroethene	113		-		70-130	-		
Tertiary butyl Alcohol	87		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
Freon-113	111		-		70-130	-		
trans-1,2-Dichloroethene	119		-		70-130	-		
1,1-Dichloroethane	117		-		70-130	-		
Methyl tert butyl ether	113		-		70-130	-		
2-Butanone	101		-		70-130	-		
cis-1,2-Dichloroethene	124		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03-04,07 Batch: WG1467099-3								
Ethyl Acetate	130		-		70-130	-		
Chloroform	117		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
1,2-Dichloroethane	107		-		70-130	-		
n-Hexane	116		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	118		-		70-130	-		
Cyclohexane	117		-		70-130	-		
1,2-Dichloropropane	115		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	120		-		70-130	-		
Trichloroethene	114		-		70-130	-		
2,2,4-Trimethylpentane	122		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	121		-		70-130	-		
4-Methyl-2-pentanone	97		-		70-130	-		
trans-1,3-Dichloropropene	115		-		70-130	-		
1,1,2-Trichloroethane	116		-		70-130	-		
Toluene	108		-		70-130	-		
2-Hexanone	97		-		70-130	-		
Dibromochloromethane	126		-		70-130	-		
1,2-Dibromoethane	117		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107478

Report Date: 02/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03-04,07 Batch: WG1467099-3								
Tetrachloroethene	111		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	118		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	135	Q	-		70-130	-		
Styrene	108		-		70-130	-		
1,1,2,2-Tetrachloroethane	123		-		70-130	-		
o-Xylene	119		-		70-130	-		
4-Ethyltoluene	105		-		70-130	-		
1,3,5-Trimethylbenzene	106		-		70-130	-		
1,2,4-Trimethylbenzene	113		-		70-130	-		
Benzyl chloride	174	Q	-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		
1,2-Dichlorobenzene	117		-		70-130	-		
1,2,4-Trichlorobenzene	134	Q	-		70-130	-		
Hexachlorobutadiene	130		-		70-130	-		

Project Name: 46-81 METROPOLITAN AVE

Serial_No:02232114:44
Lab Number: L2107478

Project Number: 170663101

Report Date: 02/23/21

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
L2107478-01	SV01_021621	01932	SV20	02/11/21	342955		-	-	-	Pass	19.0	18.2	4
L2107478-01	SV01_021621	474	2.7L Can	02/11/21	342955	L2105307-01	Pass	-29.4	-4.3	-	-	-	-
L2107478-02	SV02_021621	01245	SV20	02/11/21	342955		-	-	-	Pass	19.9	18.9	5
L2107478-02	SV02_021621	3200	2.7L Can	02/11/21	342955	L2105307-01	Pass	-29.6	-5.6	-	-	-	-
L2107478-03	AA01_021621	01335	SV20	02/11/21	342955		-	-	-	Pass	19.8	18.9	5
L2107478-03	AA01_021621	157	2.7L Can	02/11/21	342955	L2105307-01	Pass	-29.5	-5.4	-	-	-	-
L2107478-04	SV04_021621	01095	SV20	02/11/21	342955		-	-	-	Pass	19.0	18.3	4
L2107478-04	SV04_021621	3207	2.7L Can	02/11/21	342955	L2105307-01	Pass	-29.5	-6.0	-	-	-	-
L2107478-05	SV03_021621	01879	SV20	02/11/21	342955		-	-	-	Pass	18.2	17.2	6
L2107478-05	SV03_021621	2558	2.7L Can	02/11/21	342955	L2105611-01	Pass	-29.5	-6.2	-	-	-	-
L2107478-06	SSV01_021621	01146	SV20	02/11/21	342955		-	-	-	Pass	19.4	18.5	5
L2107478-06	SSV01_021621	263	2.7L Can	02/11/21	342955	L2105611-01	Pass	-29.5	-6.0	-	-	-	-
L2107478-07	SV05_021621	01263	SV20	02/11/21	342955		-	-	-	Pass	19.1	19.1	0
L2107478-07	SV05_021621	1727	2.7L Can	02/11/21	342955	L2105307-01	Pass	-29.5	-5.5	-	-	-	-
L2107478-08	UNUSED CAN# 3113	01342	SV20	02/11/21	342955		-	-	-	Pass	17.7	16.6	6

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2107478-08	UNUSED CAN# 3113	3113	2.7L Can	02/11/21	342955	L2105611-01	Pass	-29.3	-28.6	-	-	-	-



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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/04/21 17:39
Analyst: EW

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: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
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
Xylenes, total	ND	0.600	--	ND	0.869	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		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



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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
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								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
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



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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
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								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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**Lab Number:** L2105307**Project Number:** CANISTER QC BAT**Report Date:** 02/23/21**Air Canister Certification Results**

Lab ID: L2105307-01

Date Collected: 02/02/21 16:00

Client ID: CAN 1737 SHELF 4

Date Received: 02/03/21

Sample Location:

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	98		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/04/21 17:39
Analyst: EW

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
Acrolein	ND	0.050	--	ND	0.115	--		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



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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
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								
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
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
1,1,1,2,2-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-Trimethybenzene	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



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

Lab Number: L2105307
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105307-01
Client ID: CAN 1737 SHELF 4
Sample Location:

Date Collected: 02/02/21 16:00
Date Received: 02/03/21
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								
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
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/06/21 16:58
Analyst: TS

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: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
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
Xylenes, total	ND	0.600	--	ND	0.869	--		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
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		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



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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
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								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
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



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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
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								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
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
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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



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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
 Client ID: CAN 386 SHELF 6
 Sample Location:

Date Collected: 02/04/21 16:00
 Date Received: 02/05/21
 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								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/06/21 16:58
Analyst: TS

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
Acrolein	ND	0.050	--	ND	0.115	--		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



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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
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								
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
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
1,1,1,2,2-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-Trimethybenzene	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



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

Lab Number: L2105611
Report Date: 02/23/21

Air Canister Certification Results

Lab ID: L2105611-01
Client ID: CAN 386 SHELF 6
Sample Location:

Date Collected: 02/04/21 16:00
Date Received: 02/05/21
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								
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
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107478**Project Number:** 170663101**Report Date:** 02/23/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107478-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2107478-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2107478-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2107478-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2107478-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2107478-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2107478-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2107478-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: Data Usability Report



Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

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.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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. 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 reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

Data Qualifiers

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.

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107478
Report Date: 02/23/21

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 18

Published Date: 2/16/2021 5:32:02 PM

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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, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** 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, SM4500CI-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, SM9222D.****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, EPA 537.1.****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.

CHAIN OF CUSTODY

21/2A, 03:00



ANALYTICAL REPORT

Lab Number:	L2106775
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Paul McMahon
Phone:	(212) 479-5429
Project Name:	46-81 METROPOLITAN AVENUE
Project Number:	170663101
Report Date:	02/17/21

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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2106775-01	SB01_5-6	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 11:00	02/11/21
L2106775-02	SB02_7-9	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 11:30	02/11/21
L2106775-03	SB03_6-8	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 15:30	02/11/21
L2106775-04	SB04_9-11	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 13:40	02/11/21
L2106775-05	SB05_13-15	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 12:45	02/11/21
L2106775-06	SB06_6-8	SOIL	BROOKLYN/ QUEENS, NEW YORK	02/11/21 14:10	02/11/21

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

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

L2106775-01: The client ID was specified by the client.

Volatile Organics

L2106775-01 and -02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2106775-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (165%); 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.

L2106775-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (142%); 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.

L2106775-04D: The sample was received with the appropriate container (vial) for the Volatile Organics by EPA Method 5035/8260 analysis; however, it could not be used for analysis. The sample aliquot utilized for the Volatile Organics analysis was taken from an unpreserved container (inappropriate plastic) and preserved appropriately. Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2106775-04D and -05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2106775-04D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (188%); 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.

L2106775-05D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (144%);

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Case Narrative (continued)

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.

L2106775-06: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (193%); 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.

Semivolatile Organics

L2106775-01, -02D, -04D, -05D, and -06D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2106775-01D, -02D, -03, -04D, and -05D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

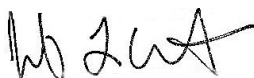
L2106775-06D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L2106775-01 through -06: 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.

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:



Jennifer L Clements

Title: Technical Director/Representative

Date: 02/17/21

ORGANICS

VOLATILES

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-01
 Client ID: SB01_5-6
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:00
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/12/21 23:26
 Analyst: MKS
 Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	440	200	1
1,1-Dichloroethane	ND		ug/kg	88	13.	1
Chloroform	ND		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	88	20.	1
1,2-Dichloropropane	ND		ug/kg	88	11.	1
Dibromochloromethane	ND		ug/kg	88	12.	1
1,1,2-Trichloroethane	ND		ug/kg	88	24.	1
Tetrachloroethene	ND		ug/kg	44	17.	1
Chlorobenzene	ND		ug/kg	44	11.	1
Trichlorofluoromethane	ND		ug/kg	350	61.	1
1,2-Dichloroethane	ND		ug/kg	88	23.	1
1,1,1-Trichloroethane	ND		ug/kg	44	15.	1
Bromodichloromethane	ND		ug/kg	44	9.6	1
trans-1,3-Dichloropropene	ND		ug/kg	88	24.	1
cis-1,3-Dichloropropene	ND		ug/kg	44	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	44	14.	1
1,1-Dichloropropene	ND		ug/kg	44	14.	1
Bromoform	ND		ug/kg	350	22.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	44	15.	1
Benzene	ND		ug/kg	44	15.	1
Toluene	ND		ug/kg	88	48.	1
Ethylbenzene	ND		ug/kg	88	12.	1
Chloromethane	ND		ug/kg	350	82.	1
Bromomethane	ND		ug/kg	180	51.	1
Vinyl chloride	ND		ug/kg	88	30.	1
Chloroethane	ND		ug/kg	180	40.	1
1,1-Dichloroethene	ND		ug/kg	88	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	12.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-01**Date Collected:** 02/11/21 11:00**Client ID:** SB01_5-6**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**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	44	12.	1
1,2-Dichlorobenzene	ND		ug/kg	180	13.	1
1,3-Dichlorobenzene	ND		ug/kg	180	13.	1
1,4-Dichlorobenzene	ND		ug/kg	180	15.	1
Methyl tert butyl ether	ND		ug/kg	180	18.	1
p/m-Xylene	ND		ug/kg	180	50.	1
o-Xylene	ND		ug/kg	88	26.	1
Xylenes, Total	ND		ug/kg	88	26.	1
cis-1,2-Dichloroethene	ND		ug/kg	88	15.	1
1,2-Dichloroethene, Total	ND		ug/kg	88	12.	1
Dibromomethane	ND		ug/kg	180	21.	1
Styrene	ND		ug/kg	88	17.	1
Dichlorodifluoromethane	ND		ug/kg	880	81.	1
Acetone	ND		ug/kg	880	420	1
Carbon disulfide	ND		ug/kg	880	400	1
2-Butanone	ND		ug/kg	880	200	1
Vinyl acetate	ND		ug/kg	880	190	1
4-Methyl-2-pentanone	ND		ug/kg	880	110	1
1,2,3-Trichloropropane	ND		ug/kg	180	11.	1
2-Hexanone	ND		ug/kg	880	100	1
Bromochloromethane	ND		ug/kg	180	18.	1
2,2-Dichloropropane	ND		ug/kg	180	18.	1
1,2-Dibromoethane	ND		ug/kg	88	25.	1
1,3-Dichloropropane	ND		ug/kg	180	15.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	44	12.	1
Bromobenzene	ND		ug/kg	180	13.	1
n-Butylbenzene	68	J	ug/kg	88	15.	1
sec-Butylbenzene	46	J	ug/kg	88	13.	1
tert-Butylbenzene	45	J	ug/kg	180	10.	1
o-Chlorotoluene	ND		ug/kg	180	17.	1
p-Chlorotoluene	ND		ug/kg	180	9.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	88.	1
Hexachlorobutadiene	ND		ug/kg	350	15.	1
Isopropylbenzene	ND		ug/kg	88	9.6	1
p-Isopropyltoluene	ND		ug/kg	88	9.6	1
Naphthalene	820		ug/kg	350	57.	1
Acrylonitrile	ND		ug/kg	350	100	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-01**Date Collected:** 02/11/21 11:00**Client ID:** SB01_5-6**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	46	J	ug/kg	88	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	24.	1
1,3,5-Trimethylbenzene	ND		ug/kg	180	17.	1
1,2,4-Trimethylbenzene	ND		ug/kg	180	30.	1
1,4-Dioxane	ND		ug/kg	7100	3100	1
p-Diethylbenzene	37	J	ug/kg	180	16.	1
p-Ethyltoluene	46	J	ug/kg	180	34.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	180	17.	1
Ethyl ether	ND		ug/kg	180	30.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	440	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	165	Q	70-130
Dibromofluoromethane	96		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-02
 Client ID: SB02_7-9
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:30
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/12/21 23:47
 Analyst: MKS
 Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	450	210	1
1,1-Dichloroethane	ND		ug/kg	91	13.	1
Chloroform	ND		ug/kg	140	13.	1
Carbon tetrachloride	ND		ug/kg	91	21.	1
1,2-Dichloropropane	ND		ug/kg	91	11.	1
Dibromochloromethane	ND		ug/kg	91	13.	1
1,1,2-Trichloroethane	ND		ug/kg	91	24.	1
Tetrachloroethene	ND		ug/kg	45	18.	1
Chlorobenzene	ND		ug/kg	45	12.	1
Trichlorofluoromethane	ND		ug/kg	360	63.	1
1,2-Dichloroethane	ND		ug/kg	91	23.	1
1,1,1-Trichloroethane	ND		ug/kg	45	15.	1
Bromodichloromethane	ND		ug/kg	45	9.9	1
trans-1,3-Dichloropropene	ND		ug/kg	91	25.	1
cis-1,3-Dichloropropene	ND		ug/kg	45	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	45	14.	1
1,1-Dichloropropene	ND		ug/kg	45	14.	1
Bromoform	ND		ug/kg	360	22.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	45	15.	1
Benzene	ND		ug/kg	45	15.	1
Toluene	ND		ug/kg	91	49.	1
Ethylbenzene	13	J	ug/kg	91	13.	1
Chloromethane	ND		ug/kg	360	84.	1
Bromomethane	ND		ug/kg	180	53.	1
Vinyl chloride	ND		ug/kg	91	30.	1
Chloroethane	ND		ug/kg	180	41.	1
1,1-Dichloroethene	ND		ug/kg	91	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	140	12.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-02**Date Collected:** 02/11/21 11:30**Client ID:** SB02_7-9**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**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	45	12.	1
1,2-Dichlorobenzene	ND		ug/kg	180	13.	1
1,3-Dichlorobenzene	ND		ug/kg	180	13.	1
1,4-Dichlorobenzene	ND		ug/kg	180	15.	1
Methyl tert butyl ether	ND		ug/kg	180	18.	1
p/m-Xylene	59	J	ug/kg	180	51.	1
o-Xylene	44	J	ug/kg	91	26.	1
Xylenes, Total	100	J	ug/kg	91	26.	1
cis-1,2-Dichloroethene	ND		ug/kg	91	16.	1
1,2-Dichloroethene, Total	ND		ug/kg	91	12.	1
Dibromomethane	ND		ug/kg	180	22.	1
Styrene	ND		ug/kg	91	18.	1
Dichlorodifluoromethane	ND		ug/kg	910	83.	1
Acetone	ND		ug/kg	910	440	1
Carbon disulfide	ND		ug/kg	910	410	1
2-Butanone	ND		ug/kg	910	200	1
Vinyl acetate	ND		ug/kg	910	190	1
4-Methyl-2-pentanone	ND		ug/kg	910	120	1
1,2,3-Trichloropropane	ND		ug/kg	180	12.	1
2-Hexanone	ND		ug/kg	910	110	1
Bromochloromethane	ND		ug/kg	180	18.	1
2,2-Dichloropropane	ND		ug/kg	180	18.	1
1,2-Dibromoethane	ND		ug/kg	91	25.	1
1,3-Dichloropropane	ND		ug/kg	180	15.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	45	12.	1
Bromobenzene	ND		ug/kg	180	13.	1
n-Butylbenzene	660		ug/kg	91	15.	1
sec-Butylbenzene	730		ug/kg	91	13.	1
tert-Butylbenzene	190		ug/kg	180	11.	1
o-Chlorotoluene	ND		ug/kg	180	17.	1
p-Chlorotoluene	ND		ug/kg	180	9.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	90.	1
Hexachlorobutadiene	ND		ug/kg	360	15.	1
Isopropylbenzene	95		ug/kg	91	9.9	1
p-Isopropyltoluene	280		ug/kg	91	9.9	1
Naphthalene	630		ug/kg	360	59.	1
Acrylonitrile	ND		ug/kg	360	100	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-02**Date Collected:** 02/11/21 11:30**Client ID:** SB02_7-9**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	55	J	ug/kg	91	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	29.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	25.	1
1,3,5-Trimethylbenzene	130	J	ug/kg	180	17.	1
1,2,4-Trimethylbenzene	260		ug/kg	180	30.	1
1,4-Dioxane	ND		ug/kg	7200	3200	1
p-Diethylbenzene	260		ug/kg	180	16.	1
p-Ethyltoluene	160	J	ug/kg	180	35.	1
1,2,4,5-Tetramethylbenzene	3000		ug/kg	180	17.	1
Ethyl ether	ND		ug/kg	180	31.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	450	130	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	142	Q	70-130
Dibromofluoromethane	94		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-03
 Client ID: SB03_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 15:30
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/12/21 21:39
 Analyst: MKS
 Percent Solids: 48%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	14	6.2	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.39	1
Chloroform	ND		ug/kg	4.1	0.38	1
Carbon tetrachloride	ND		ug/kg	2.7	0.62	1
1,2-Dichloropropane	ND		ug/kg	2.7	0.34	1
Dibromochloromethane	ND		ug/kg	2.7	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.72	1
Tetrachloroethene	ND		ug/kg	1.4	0.53	1
Chlorobenzene	ND		ug/kg	1.4	0.34	1
Trichlorofluoromethane	ND		ug/kg	11	1.9	1
1,2-Dichloroethane	ND		ug/kg	2.7	0.70	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.45	1
Bromodichloromethane	ND		ug/kg	1.4	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	2.7	0.74	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.43	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.43	1
1,1-Dichloropropene	ND		ug/kg	1.4	0.43	1
Bromoform	ND		ug/kg	11	0.67	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.45	1
Benzene	ND		ug/kg	1.4	0.45	1
Toluene	ND		ug/kg	2.7	1.5	1
Ethylbenzene	ND		ug/kg	2.7	0.38	1
Chloromethane	ND		ug/kg	11	2.5	1
Bromomethane	ND		ug/kg	5.4	1.6	1
Vinyl chloride	ND		ug/kg	2.7	0.91	1
Chloroethane	ND		ug/kg	5.4	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.7	0.64	1
trans-1,2-Dichloroethene	ND		ug/kg	4.1	0.37	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-03**Date Collected:** 02/11/21 15:30**Client ID:** SB03_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.39	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.40	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.46	1
Methyl tert butyl ether	1.6	J	ug/kg	5.4	0.54	1
p/m-Xylene	ND		ug/kg	5.4	1.5	1
o-Xylene	ND		ug/kg	2.7	0.79	1
Xylenes, Total	ND		ug/kg	2.7	0.79	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	2.7	0.37	1
Dibromomethane	ND		ug/kg	5.4	0.64	1
Styrene	ND		ug/kg	2.7	0.53	1
Dichlorodifluoromethane	ND		ug/kg	27	2.5	1
Acetone	500		ug/kg	27	13.	1
Carbon disulfide	ND		ug/kg	27	12.	1
2-Butanone	99		ug/kg	27	6.0	1
Vinyl acetate	ND		ug/kg	27	5.8	1
4-Methyl-2-pentanone	ND		ug/kg	27	3.5	1
1,2,3-Trichloropropane	ND		ug/kg	5.4	0.34	1
2-Hexanone	ND		ug/kg	27	3.2	1
Bromochloromethane	ND		ug/kg	5.4	0.56	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.55	1
1,2-Dibromoethane	ND		ug/kg	2.7	0.76	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.45	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.36	1
Bromobenzene	ND		ug/kg	5.4	0.39	1
n-Butylbenzene	ND		ug/kg	2.7	0.45	1
sec-Butylbenzene	ND		ug/kg	2.7	0.40	1
tert-Butylbenzene	ND		ug/kg	5.4	0.32	1
o-Chlorotoluene	ND		ug/kg	5.4	0.52	1
p-Chlorotoluene	ND		ug/kg	5.4	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.1	2.7	1
Hexachlorobutadiene	ND		ug/kg	11	0.46	1
Isopropylbenzene	ND		ug/kg	2.7	0.30	1
p-Isopropyltoluene	0.32	J	ug/kg	2.7	0.30	1
Naphthalene	ND		ug/kg	11	1.8	1
Acrylonitrile	ND		ug/kg	11	3.1	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-03**Date Collected:** 02/11/21 15:30**Client ID:** SB03_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.7	0.46	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.87	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.74	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.52	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.90	1
1,4-Dioxane	ND		ug/kg	220	95.	1
p-Diethylbenzene	ND		ug/kg	5.4	0.48	1
p-Ethyltoluene	ND		ug/kg	5.4	1.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.52	1
Ethyl ether	ND		ug/kg	5.4	0.92	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	3.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/13/21 00:08
 Analyst: MKS
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1200	530	4
1,1-Dichloroethane	ND		ug/kg	230	34.	4
Chloroform	ND		ug/kg	350	33.	4
Carbon tetrachloride	ND		ug/kg	230	54.	4
1,2-Dichloropropane	ND		ug/kg	230	29.	4
Dibromochloromethane	ND		ug/kg	230	33.	4
1,1,2-Trichloroethane	ND		ug/kg	230	62.	4
Tetrachloroethene	ND		ug/kg	120	46.	4
Chlorobenzene	ND		ug/kg	120	30.	4
Trichlorofluoromethane	ND		ug/kg	930	160	4
1,2-Dichloroethane	ND		ug/kg	230	60.	4
1,1,1-Trichloroethane	ND		ug/kg	120	39.	4
Bromodichloromethane	ND		ug/kg	120	25.	4
trans-1,3-Dichloropropene	ND		ug/kg	230	64.	4
cis-1,3-Dichloropropene	ND		ug/kg	120	37.	4
1,3-Dichloropropene, Total	ND		ug/kg	120	37.	4
1,1-Dichloropropene	ND		ug/kg	120	37.	4
Bromoform	ND		ug/kg	930	57.	4
1,1,2,2-Tetrachloroethane	ND		ug/kg	120	39.	4
Benzene	ND		ug/kg	120	39.	4
Toluene	ND		ug/kg	230	130	4
Ethylbenzene	ND		ug/kg	230	33.	4
Chloromethane	ND		ug/kg	930	220	4
Bromomethane	ND		ug/kg	470	140	4
Vinyl chloride	ND		ug/kg	230	78.	4
Chloroethane	ND		ug/kg	470	100	4
1,1-Dichloroethene	ND		ug/kg	230	56.	4
trans-1,2-Dichloroethene	ND		ug/kg	350	32.	4

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 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	120	32.	4
1,2-Dichlorobenzene	ND		ug/kg	470	34.	4
1,3-Dichlorobenzene	ND		ug/kg	470	34.	4
1,4-Dichlorobenzene	ND		ug/kg	470	40.	4
Methyl tert butyl ether	ND		ug/kg	470	47.	4
p/m-Xylene	ND		ug/kg	470	130	4
o-Xylene	ND		ug/kg	230	68.	4
Xylenes, Total	ND		ug/kg	230	68.	4
cis-1,2-Dichloroethene	ND		ug/kg	230	41.	4
1,2-Dichloroethene, Total	ND		ug/kg	230	32.	4
Dibromomethane	ND		ug/kg	470	56.	4
Styrene	ND		ug/kg	230	46.	4
Dichlorodifluoromethane	ND		ug/kg	2300	210	4
Acetone	ND		ug/kg	2300	1100	4
Carbon disulfide	ND		ug/kg	2300	1100	4
2-Butanone	ND		ug/kg	2300	520	4
Vinyl acetate	ND		ug/kg	2300	500	4
4-Methyl-2-pentanone	ND		ug/kg	2300	300	4
1,2,3-Trichloropropane	ND		ug/kg	470	30.	4
2-Hexanone	ND		ug/kg	2300	280	4
Bromochloromethane	ND		ug/kg	470	48.	4
2,2-Dichloropropane	ND		ug/kg	470	47.	4
1,2-Dibromoethane	ND		ug/kg	230	65.	4
1,3-Dichloropropane	ND		ug/kg	470	39.	4
1,1,1,2-Tetrachloroethane	ND		ug/kg	120	31.	4
Bromobenzene	ND		ug/kg	470	34.	4
n-Butylbenzene	3300		ug/kg	230	39.	4
sec-Butylbenzene	2700		ug/kg	230	34.	4
tert-Butylbenzene	740		ug/kg	470	28.	4
o-Chlorotoluene	ND		ug/kg	470	44.	4
p-Chlorotoluene	ND		ug/kg	470	25.	4
1,2-Dibromo-3-chloropropane	ND		ug/kg	700	230	4
Hexachlorobutadiene	ND		ug/kg	930	39.	4
Isopropylbenzene	190	J	ug/kg	230	25.	4
p-Isopropyltoluene	ND		ug/kg	230	25.	4
Naphthalene	2100		ug/kg	930	150	4
Acrylonitrile	ND		ug/kg	930	270	4

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	230	40.	4
1,2,3-Trichlorobenzene	ND		ug/kg	470	75.	4
1,2,4-Trichlorobenzene	ND		ug/kg	470	63.	4
1,3,5-Trimethylbenzene	ND		ug/kg	470	45.	4
1,2,4-Trimethylbenzene	ND		ug/kg	470	78.	4
1,4-Dioxane	ND		ug/kg	19000	8200	4
p-Diethylbenzene	ND		ug/kg	470	41.	4
p-Ethyltoluene	ND		ug/kg	470	90.	4
1,2,4,5-Tetramethylbenzene	14000		ug/kg	470	44.	4
Ethyl ether	ND		ug/kg	470	80.	4
trans-1,4-Dichloro-2-butene	ND		ug/kg	1200	330	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	188	Q	70-130
Dibromofluoromethane	96		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/13/21 00:29
 Analyst: MKS
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	540	250	2
1,1-Dichloroethane	ND		ug/kg	110	16.	2
Chloroform	ND		ug/kg	160	15.	2
Carbon tetrachloride	ND		ug/kg	110	25.	2
1,2-Dichloropropane	ND		ug/kg	110	14.	2
Dibromochloromethane	ND		ug/kg	110	15.	2
1,1,2-Trichloroethane	ND		ug/kg	110	29.	2
Tetrachloroethene	ND		ug/kg	54	21.	2
Chlorobenzene	ND		ug/kg	54	14.	2
Trichlorofluoromethane	ND		ug/kg	440	76.	2
1,2-Dichloroethane	ND		ug/kg	110	28.	2
1,1,1-Trichloroethane	ND		ug/kg	54	18.	2
Bromodichloromethane	ND		ug/kg	54	12.	2
trans-1,3-Dichloropropene	ND		ug/kg	110	30.	2
cis-1,3-Dichloropropene	ND		ug/kg	54	17.	2
1,3-Dichloropropene, Total	ND		ug/kg	54	17.	2
1,1-Dichloropropene	ND		ug/kg	54	17.	2
Bromoform	ND		ug/kg	440	27.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	18.	2
Benzene	ND		ug/kg	54	18.	2
Toluene	ND		ug/kg	110	59.	2
Ethylbenzene	ND		ug/kg	110	15.	2
Chloromethane	ND		ug/kg	440	100	2
Bromomethane	ND		ug/kg	220	63.	2
Vinyl chloride	ND		ug/kg	110	36.	2
Chloroethane	ND		ug/kg	220	49.	2
1,1-Dichloroethene	ND		ug/kg	110	26.	2
trans-1,2-Dichloroethene	ND		ug/kg	160	15.	2

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 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	54	15.	2
1,2-Dichlorobenzene	ND		ug/kg	220	16.	2
1,3-Dichlorobenzene	ND		ug/kg	220	16.	2
1,4-Dichlorobenzene	ND		ug/kg	220	19.	2
Methyl tert butyl ether	ND		ug/kg	220	22.	2
p/m-Xylene	ND		ug/kg	220	61.	2
o-Xylene	ND		ug/kg	110	32.	2
Xylenes, Total	ND		ug/kg	110	32.	2
cis-1,2-Dichloroethene	ND		ug/kg	110	19.	2
1,2-Dichloroethene, Total	ND		ug/kg	110	15.	2
Dibromomethane	ND		ug/kg	220	26.	2
Styrene	ND		ug/kg	110	21.	2
Dichlorodifluoromethane	ND		ug/kg	1100	100	2
Acetone	ND		ug/kg	1100	520	2
Carbon disulfide	ND		ug/kg	1100	500	2
2-Butanone	ND		ug/kg	1100	240	2
Vinyl acetate	ND		ug/kg	1100	230	2
4-Methyl-2-pentanone	ND		ug/kg	1100	140	2
1,2,3-Trichloropropane	ND		ug/kg	220	14.	2
2-Hexanone	ND		ug/kg	1100	130	2
Bromochloromethane	ND		ug/kg	220	22.	2
2,2-Dichloropropane	ND		ug/kg	220	22.	2
1,2-Dibromoethane	ND		ug/kg	110	30.	2
1,3-Dichloropropane	ND		ug/kg	220	18.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	54	14.	2
Bromobenzene	ND		ug/kg	220	16.	2
n-Butylbenzene	1300		ug/kg	110	18.	2
sec-Butylbenzene	930		ug/kg	110	16.	2
tert-Butylbenzene	200	J	ug/kg	220	13.	2
o-Chlorotoluene	ND		ug/kg	220	21.	2
p-Chlorotoluene	ND		ug/kg	220	12.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	330	110	2
Hexachlorobutadiene	ND		ug/kg	440	18.	2
Isopropylbenzene	630		ug/kg	110	12.	2
p-Isopropyltoluene	ND		ug/kg	110	12.	2
Naphthalene	870		ug/kg	440	71.	2
Acrylonitrile	ND		ug/kg	440	120	2

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	1300		ug/kg	110	19.	2
1,2,3-Trichlorobenzene	ND		ug/kg	220	35.	2
1,2,4-Trichlorobenzene	ND		ug/kg	220	30.	2
1,3,5-Trimethylbenzene	ND		ug/kg	220	21.	2
1,2,4-Trimethylbenzene	ND		ug/kg	220	36.	2
1,4-Dioxane	ND		ug/kg	8700	3800	2
p-Diethylbenzene	420		ug/kg	220	19.	2
p-Ethyltoluene	ND		ug/kg	220	42.	2
1,2,4,5-Tetramethylbenzene	3500		ug/kg	220	21.	2
Ethyl ether	ND		ug/kg	220	37.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	540	150	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	144	Q	70-130
Dibromofluoromethane	95		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-06
 Client ID: SB06_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 14:10
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/15/21 19:31
 Analyst: JC
 Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	540	250	1
1,1-Dichloroethane	ND		ug/kg	110	16.	1
Chloroform	ND		ug/kg	160	15.	1
Carbon tetrachloride	ND		ug/kg	110	25.	1
1,2-Dichloropropane	ND		ug/kg	110	14.	1
Dibromochloromethane	ND		ug/kg	110	15.	1
1,1,2-Trichloroethane	ND		ug/kg	110	29.	1
Tetrachloroethene	ND		ug/kg	54	21.	1
Chlorobenzene	ND		ug/kg	54	14.	1
Trichlorofluoromethane	ND		ug/kg	430	76.	1
1,2-Dichloroethane	ND		ug/kg	110	28.	1
1,1,1-Trichloroethane	ND		ug/kg	54	18.	1
Bromodichloromethane	ND		ug/kg	54	12.	1
trans-1,3-Dichloropropene	ND		ug/kg	110	30.	1
cis-1,3-Dichloropropene	ND		ug/kg	54	17.	1
1,3-Dichloropropene, Total	ND		ug/kg	54	17.	1
1,1-Dichloropropene	ND		ug/kg	54	17.	1
Bromoform	ND		ug/kg	430	27.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	18.	1
Benzene	ND		ug/kg	54	18.	1
Toluene	ND		ug/kg	110	59.	1
Ethylbenzene	ND		ug/kg	110	15.	1
Chloromethane	ND		ug/kg	430	100	1
Bromomethane	ND		ug/kg	220	63.	1
Vinyl chloride	ND		ug/kg	110	36.	1
Chloroethane	ND		ug/kg	220	49.	1
1,1-Dichloroethene	ND		ug/kg	110	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	160	15.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-06**Date Collected:** 02/11/21 14:10**Client ID:** SB06_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**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	54	15.	1
1,2-Dichlorobenzene	ND		ug/kg	220	16.	1
1,3-Dichlorobenzene	ND		ug/kg	220	16.	1
1,4-Dichlorobenzene	ND		ug/kg	220	18.	1
Methyl tert butyl ether	ND		ug/kg	220	22.	1
p/m-Xylene	ND		ug/kg	220	61.	1
o-Xylene	ND		ug/kg	110	32.	1
Xylenes, Total	ND		ug/kg	110	32.	1
cis-1,2-Dichloroethene	ND		ug/kg	110	19.	1
1,2-Dichloroethene, Total	ND		ug/kg	110	15.	1
Dibromomethane	ND		ug/kg	220	26.	1
Styrene	ND		ug/kg	110	21.	1
Dichlorodifluoromethane	ND		ug/kg	1100	99.	1
Acetone	ND		ug/kg	1100	520	1
Carbon disulfide	ND		ug/kg	1100	490	1
2-Butanone	ND		ug/kg	1100	240	1
Vinyl acetate	ND		ug/kg	1100	230	1
4-Methyl-2-pentanone	ND		ug/kg	1100	140	1
1,2,3-Trichloropropane	ND		ug/kg	220	14.	1
2-Hexanone	ND		ug/kg	1100	130	1
Bromochloromethane	ND		ug/kg	220	22.	1
2,2-Dichloropropane	ND		ug/kg	220	22.	1
1,2-Dibromoethane	ND		ug/kg	110	30.	1
1,3-Dichloropropane	ND		ug/kg	220	18.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	54	14.	1
Bromobenzene	ND		ug/kg	220	16.	1
n-Butylbenzene	2000		ug/kg	110	18.	1
sec-Butylbenzene	2600		ug/kg	110	16.	1
tert-Butylbenzene	600		ug/kg	220	13.	1
o-Chlorotoluene	ND		ug/kg	220	21.	1
p-Chlorotoluene	ND		ug/kg	220	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	320	110	1
Hexachlorobutadiene	ND		ug/kg	430	18.	1
Isopropylbenzene	180		ug/kg	110	12.	1
p-Isopropyltoluene	ND		ug/kg	110	12.	1
Naphthalene	470		ug/kg	430	71.	1
Acrylonitrile	ND		ug/kg	430	120	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-06**Date Collected:** 02/11/21 14:10**Client ID:** SB06_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	96	J	ug/kg	110	18.	1
1,2,3-Trichlorobenzene	ND		ug/kg	220	35.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	30.	1
1,3,5-Trimethylbenzene	ND		ug/kg	220	21.	1
1,2,4-Trimethylbenzene	ND		ug/kg	220	36.	1
1,4-Dioxane	ND		ug/kg	8700	3800	1
p-Diethylbenzene	ND		ug/kg	220	19.	1
p-Ethyltoluene	ND		ug/kg	220	42.	1
1,2,4,5-Tetramethylbenzene	12000		ug/kg	220	21.	1
Ethyl ether	ND		ug/kg	220	37.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	540	150	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	193	Q	70-130
Dibromofluoromethane	95		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/12/21 18:07
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1464818-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/12/21 18:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1464818-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/12/21 18:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1464818-5					
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	80	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	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/12/21 18:07
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1464823-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/12/21 18:07
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1464823-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/12/21 18:07
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1464823-5					
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	4000	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	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	93		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 17:43
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1465218-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 17:43
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1465218-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 17:43
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1465218-5					
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	4000	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	91		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1464818-3 WG1464818-4								
Methylene chloride	91		91		70-130	0		30
1,1-Dichloroethane	86		86		70-130	0		30
Chloroform	86		86		70-130	0		30
Carbon tetrachloride	93		93		70-130	0		30
1,2-Dichloropropane	89		91		70-130	2		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	89		92		70-130	3		30
Tetrachloroethene	89		91		70-130	2		30
Chlorobenzene	90		91		70-130	1		30
Trichlorofluoromethane	85		84		70-139	1		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	87		86		70-130	1		30
Bromodichloromethane	90		88		70-130	2		30
trans-1,3-Dichloropropene	94		97		70-130	3		30
cis-1,3-Dichloropropene	89		89		70-130	0		30
1,1-Dichloropropene	88		90		70-130	2		30
Bromoform	98		101		70-130	3		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	91		90		70-130	1		30
Toluene	86		87		70-130	1		30
Ethylbenzene	87		88		70-130	1		30
Chloromethane	79		79		52-130	0		30
Bromomethane	112		103		57-147	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1464818-3 WG1464818-4								
Vinyl chloride	88		86		67-130	2		30
Chloroethane	94		93		50-151	1		30
1,1-Dichloroethene	87		86		65-135	1		30
trans-1,2-Dichloroethene	87		86		70-130	1		30
Trichloroethene	89		88		70-130	1		30
1,2-Dichlorobenzene	87		88		70-130	1		30
1,3-Dichlorobenzene	88		89		70-130	1		30
1,4-Dichlorobenzene	86		86		70-130	0		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	85		86		70-130	1		30
o-Xylene	85		86		70-130	1		30
cis-1,2-Dichloroethene	86		85		70-130	1		30
Dibromomethane	85		85		70-130	0		30
Styrene	82		83		70-130	1		30
Dichlorodifluoromethane	73		72		30-146	1		30
Acetone	78		85		54-140	9		30
Carbon disulfide	77		76		59-130	1		30
2-Butanone	74		80		70-130	8		30
Vinyl acetate	91		94		70-130	3		30
4-Methyl-2-pentanone	85		88		70-130	3		30
1,2,3-Trichloropropane	86		87		68-130	1		30
2-Hexanone	78		83		70-130	6		30
Bromochloromethane	88		87		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1464818-3 WG1464818-4								
2,2-Dichloropropane	83		84		70-130	1		30
1,2-Dibromoethane	88		91		70-130	3		30
1,3-Dichloropropane	88		90		69-130	2		30
1,1,1,2-Tetrachloroethane	94		96		70-130	2		30
Bromobenzene	86		89		70-130	3		30
n-Butylbenzene	94		93		70-130	1		30
sec-Butylbenzene	89		88		70-130	1		30
tert-Butylbenzene	88		88		70-130	0		30
o-Chlorotoluene	88		84		70-130	5		30
p-Chlorotoluene	86		87		70-130	1		30
1,2-Dibromo-3-chloropropane	93		98		68-130	5		30
Hexachlorobutadiene	91		93		67-130	2		30
Isopropylbenzene	87		87		70-130	0		30
p-Isopropyltoluene	91		90		70-130	1		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	88		93		70-130	6		30
n-Propylbenzene	88		88		70-130	0		30
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	94		92		70-130	2		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	90		88		70-130	2		30
1,4-Dioxane	83		90		65-136	8		30
p-Diethylbenzene	95		92		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1464818-3 WG1464818-4								
p-Ethyltoluene	89		87		70-130	2		30
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		30
Ethyl ether	92		94		67-130	2		30
trans-1,4-Dichloro-2-butene	88		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1464823-3 WG1464823-4								
Methylene chloride	91		91		70-130	0		30
1,1-Dichloroethane	86		86		70-130	0		30
Chloroform	86		86		70-130	0		30
Carbon tetrachloride	93		93		70-130	0		30
1,2-Dichloropropane	89		91		70-130	2		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	89		92		70-130	3		30
Tetrachloroethene	89		91		70-130	2		30
Chlorobenzene	90		91		70-130	1		30
Trichlorofluoromethane	85		84		70-139	1		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	87		86		70-130	1		30
Bromodichloromethane	90		88		70-130	2		30
trans-1,3-Dichloropropene	94		97		70-130	3		30
cis-1,3-Dichloropropene	89		89		70-130	0		30
1,1-Dichloropropene	88		90		70-130	2		30
Bromoform	98		101		70-130	3		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	91		90		70-130	1		30
Toluene	86		87		70-130	1		30
Ethylbenzene	87		88		70-130	1		30
Chloromethane	79		79		52-130	0		30
Bromomethane	112		103		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1464823-3 WG1464823-4								
Vinyl chloride	88		86		67-130	2		30
Chloroethane	94		93		50-151	1		30
1,1-Dichloroethene	87		86		65-135	1		30
trans-1,2-Dichloroethene	87		86		70-130	1		30
Trichloroethene	89		88		70-130	1		30
1,2-Dichlorobenzene	87		88		70-130	1		30
1,3-Dichlorobenzene	88		89		70-130	1		30
1,4-Dichlorobenzene	86		86		70-130	0		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	85		86		70-130	1		30
o-Xylene	85		86		70-130	1		30
cis-1,2-Dichloroethene	86		85		70-130	1		30
Dibromomethane	85		85		70-130	0		30
Styrene	82		83		70-130	1		30
Dichlorodifluoromethane	73		72		30-146	1		30
Acetone	78		85		54-140	9		30
Carbon disulfide	77		76		59-130	1		30
2-Butanone	74		80		70-130	8		30
Vinyl acetate	91		94		70-130	3		30
4-Methyl-2-pentanone	85		88		70-130	3		30
1,2,3-Trichloropropane	86		87		68-130	1		30
2-Hexanone	78		83		70-130	6		30
Bromochloromethane	88		87		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1464823-3 WG1464823-4								
2,2-Dichloropropane	83		84		70-130	1		30
1,2-Dibromoethane	88		91		70-130	3		30
1,3-Dichloropropane	88		90		69-130	2		30
1,1,1,2-Tetrachloroethane	94		96		70-130	2		30
Bromobenzene	86		89		70-130	3		30
n-Butylbenzene	94		93		70-130	1		30
sec-Butylbenzene	89		88		70-130	1		30
tert-Butylbenzene	88		88		70-130	0		30
o-Chlorotoluene	88		84		70-130	5		30
p-Chlorotoluene	86		87		70-130	1		30
1,2-Dibromo-3-chloropropane	93		98		68-130	5		30
Hexachlorobutadiene	91		93		67-130	2		30
Isopropylbenzene	87		87		70-130	0		30
p-Isopropyltoluene	91		90		70-130	1		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	88		93		70-130	6		30
n-Propylbenzene	88		88		70-130	0		30
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	94		92		70-130	2		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	90		88		70-130	2		30
1,4-Dioxane	83		90		65-136	8		30
p-Diethylbenzene	95		92		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1464823-3 WG1464823-4								
p-Ethyltoluene	89		87		70-130	2		30
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		30
Ethyl ether	92		94		67-130	2		30
trans-1,4-Dichloro-2-butene	88		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1465218-3 WG1465218-4								
Methylene chloride	101		100		70-130	1		30
1,1-Dichloroethane	95		94		70-130	1		30
Chloroform	95		92		70-130	3		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	97		97		70-130	0		30
Dibromochloromethane	105		106		70-130	1		30
1,1,2-Trichloroethane	98		99		70-130	1		30
Tetrachloroethene	102		104		70-130	2		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	96		93		70-139	3		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	95		95		70-130	0		30
Bromodichloromethane	97		96		70-130	1		30
trans-1,3-Dichloropropene	105		106		70-130	1		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
1,1-Dichloropropene	98		96		70-130	2		30
Bromoform	108		112		70-130	4		30
1,1,2,2-Tetrachloroethane	92		99		70-130	7		30
Benzene	100		99		70-130	1		30
Toluene	96		95		70-130	1		30
Ethylbenzene	95		95		70-130	0		30
Chloromethane	87		87		52-130	0		30
Bromomethane	138		123		57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1465218-3 WG1465218-4								
Vinyl chloride	96		96		67-130	0		30
Chloroethane	103		99		50-151	4		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	97		96		70-130	1		30
Trichloroethene	99		99		70-130	0		30
1,2-Dichlorobenzene	95		98		70-130	3		30
1,3-Dichlorobenzene	97		101		70-130	4		30
1,4-Dichlorobenzene	96		101		70-130	5		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	95		97		70-130	2		30
o-Xylene	95		95		70-130	0		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	95		93		70-130	2		30
Styrene	92		93		70-130	1		30
Dichlorodifluoromethane	92		90		30-146	2		30
Acetone	86		86		54-140	0		30
Carbon disulfide	87		86		59-130	1		30
2-Butanone	80		81		70-130	1		30
Vinyl acetate	97		98		70-130	1		30
4-Methyl-2-pentanone	91		96		70-130	5		30
1,2,3-Trichloropropane	90		95		68-130	5		30
2-Hexanone	84		88		70-130	5		30
Bromochloromethane	97		93		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1465218-3 WG1465218-4								
2,2-Dichloropropane	96		94		70-130	2		30
1,2-Dibromoethane	93		97		70-130	4		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	95		98		70-130	3		30
n-Butylbenzene	103		106		70-130	3		30
sec-Butylbenzene	96		99		70-130	3		30
tert-Butylbenzene	94		96		70-130	2		30
o-Chlorotoluene	94		94		70-130	0		30
p-Chlorotoluene	93		98		70-130	5		30
1,2-Dibromo-3-chloropropane	101		110		68-130	9		30
Hexachlorobutadiene	104		107		67-130	3		30
Isopropylbenzene	93		96		70-130	3		30
p-Isopropyltoluene	100		102		70-130	2		30
Naphthalene	99		105		70-130	6		30
Acrylonitrile	93		101		70-130	8		30
n-Propylbenzene	95		98		70-130	3		30
1,2,3-Trichlorobenzene	102		108		70-130	6		30
1,2,4-Trichlorobenzene	109		112		70-130	3		30
1,3,5-Trimethylbenzene	96		99		70-130	3		30
1,2,4-Trimethylbenzene	97		100		70-130	3		30
1,4-Dioxane	88		84		65-136	5		30
p-Diethylbenzene	105		108		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1465218-3 WG1465218-4								
p-Ethyltoluene	95		98		70-130	3		30
1,2,4,5-Tetramethylbenzene	109		114		70-130	4		30
Ethyl ether	101		103		67-130	2		30
trans-1,4-Dichloro-2-butene	94		103		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-01 D
 Client ID: SB01_5-6
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:00
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/16/21 13:26
 Analyst: IM
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	3500		ug/kg	2700	350	5
1,2,4-Trichlorobenzene	ND		ug/kg	3400	390	5
Hexachlorobenzene	ND		ug/kg	2000	380	5
Bis(2-chloroethyl)ether	ND		ug/kg	3000	460	5
2-Chloronaphthalene	ND		ug/kg	3400	340	5
1,2-Dichlorobenzene	ND		ug/kg	3400	610	5
1,3-Dichlorobenzene	ND		ug/kg	3400	580	5
1,4-Dichlorobenzene	ND		ug/kg	3400	590	5
3,3'-Dichlorobenzidine	ND		ug/kg	3400	900	5
2,4-Dinitrotoluene	4800		ug/kg	3400	680	5
2,6-Dinitrotoluene	ND		ug/kg	3400	580	5
Fluoranthene	3700		ug/kg	2000	390	5
4-Chlorophenyl phenyl ether	ND		ug/kg	3400	360	5
4-Bromophenyl phenyl ether	ND		ug/kg	3400	520	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	4100	580	5
Bis(2-chloroethoxy)methane	ND		ug/kg	3700	340	5
Hexachlorobutadiene	ND		ug/kg	3400	500	5
Hexachlorocyclopentadiene	ND		ug/kg	9700	3100	5
Hexachloroethane	ND		ug/kg	2700	550	5
Isophorone	ND		ug/kg	3000	440	5
Naphthalene	1400	J	ug/kg	3400	410	5
Nitrobenzene	ND		ug/kg	3000	500	5
NDPA/DPA	ND		ug/kg	2700	390	5
n-Nitrosodi-n-propylamine	ND		ug/kg	3400	520	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	3400	1200	5
Butyl benzyl phthalate	ND		ug/kg	3400	860	5
Di-n-butylphthalate	ND		ug/kg	3400	640	5
Di-n-octylphthalate	ND		ug/kg	3400	1200	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-01 D
 Client ID: SB01_5-6
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:00
 Date Received: 02/11/21
 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	3400	310	5
Dimethyl phthalate	ND		ug/kg	3400	710	5
Benzo(a)anthracene	1500	J	ug/kg	2000	380	5
Benzo(a)pyrene	ND		ug/kg	2700	830	5
Benzo(b)fluoranthene	1000	J	ug/kg	2000	570	5
Benzo(k)fluoranthene	ND		ug/kg	2000	540	5
Chrysene	1700	J	ug/kg	2000	350	5
Acenaphthylene	1400	J	ug/kg	2700	520	5
Anthracene	6600		ug/kg	2000	660	5
Benzo(ghi)perylene	650	J	ug/kg	2700	400	5
Fluorene	7300		ug/kg	3400	330	5
Phenanthrene	9200		ug/kg	2000	410	5
Dibenzo(a,h)anthracene	ND		ug/kg	2000	390	5
Indeno(1,2,3-cd)pyrene	510	J	ug/kg	2700	470	5
Pyrene	11000		ug/kg	2000	340	5
Biphenyl	ND		ug/kg	7700	790	5
4-Chloroaniline	ND		ug/kg	3400	620	5
2-Nitroaniline	ND		ug/kg	3400	650	5
3-Nitroaniline	ND		ug/kg	3400	640	5
4-Nitroaniline	ND		ug/kg	3400	1400	5
Dibenzofuran	ND		ug/kg	3400	320	5
2-Methylnaphthalene	1100	J	ug/kg	4100	410	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3400	350	5
Acetophenone	ND		ug/kg	3400	420	5
2,4,6-Trichlorophenol	ND		ug/kg	2000	640	5
p-Chloro-m-cresol	ND		ug/kg	3400	500	5
2-Chlorophenol	ND		ug/kg	3400	400	5
2,4-Dichlorophenol	ND		ug/kg	3000	540	5
2,4-Dimethylphenol	ND		ug/kg	3400	1100	5
2-Nitrophenol	ND		ug/kg	7300	1300	5
4-Nitrophenol	ND		ug/kg	4800	1400	5
2,4-Dinitrophenol	ND		ug/kg	16000	1600	5
4,6-Dinitro-o-cresol	ND		ug/kg	8800	1600	5
Pentachlorophenol	ND		ug/kg	2700	750	5
Phenol	ND		ug/kg	3400	510	5
2-Methylphenol	ND		ug/kg	3400	530	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	4900	530	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-01 D
 Client ID: SB01_5-6
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:00
 Date Received: 02/11/21
 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	3400	650	5
Benzoic Acid	ND		ug/kg	11000	3400	5
Benzyl Alcohol	ND		ug/kg	3400	1000	5
Carbazole	ND		ug/kg	3400	330	5
1,4-Dioxane	ND		ug/kg	510	160	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	35		10-136
4-Terphenyl-d14	70		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-02 D
 Client ID: SB02_7-9
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:30
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/16/21 13:48
 Analyst: IM
 Percent Solids: 74%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2600		ug/kg	2600	340	5
1,2,4-Trichlorobenzene	ND		ug/kg	3200	370	5
Hexachlorobenzene	ND		ug/kg	2000	360	5
Bis(2-chloroethyl)ether	ND		ug/kg	2900	440	5
2-Chloronaphthalene	ND		ug/kg	3200	320	5
1,2-Dichlorobenzene	ND		ug/kg	3200	580	5
1,3-Dichlorobenzene	ND		ug/kg	3200	560	5
1,4-Dichlorobenzene	ND		ug/kg	3200	570	5
3,3'-Dichlorobenzidine	ND		ug/kg	3200	860	5
2,4-Dinitrotoluene	ND		ug/kg	3200	650	5
2,6-Dinitrotoluene	ND		ug/kg	3200	560	5
Fluoranthene	4600		ug/kg	2000	370	5
4-Chlorophenyl phenyl ether	ND		ug/kg	3200	350	5
4-Bromophenyl phenyl ether	ND		ug/kg	3200	500	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	3900	560	5
Bis(2-chloroethoxy)methane	ND		ug/kg	3500	330	5
Hexachlorobutadiene	ND		ug/kg	3200	480	5
Hexachlorocyclopentadiene	ND		ug/kg	9300	2900	5
Hexachloroethane	ND		ug/kg	2600	530	5
Isophorone	ND		ug/kg	2900	420	5
Naphthalene	1900	J	ug/kg	3200	400	5
Nitrobenzene	ND		ug/kg	2900	480	5
NDPA/DPA	ND		ug/kg	2600	370	5
n-Nitrosodi-n-propylamine	ND		ug/kg	3200	500	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	3200	1100	5
Butyl benzyl phthalate	ND		ug/kg	3200	820	5
Di-n-butylphthalate	ND		ug/kg	3200	620	5
Di-n-octylphthalate	ND		ug/kg	3200	1100	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-02 D
 Client ID: SB02_7-9
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:30
 Date Received: 02/11/21
 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	3200	300	5
Dimethyl phthalate	ND		ug/kg	3200	680	5
Benzo(a)anthracene	2200		ug/kg	2000	370	5
Benzo(a)pyrene	2500	J	ug/kg	2600	790	5
Benzo(b)fluoranthene	3000		ug/kg	2000	550	5
Benzo(k)fluoranthene	890	J	ug/kg	2000	520	5
Chrysene	2200		ug/kg	2000	340	5
Acenaphthylene	1800	J	ug/kg	2600	500	5
Anthracene	2500		ug/kg	2000	630	5
Benzo(ghi)perylene	1700	J	ug/kg	2600	380	5
Fluorene	4900		ug/kg	3200	320	5
Phenanthrene	10000		ug/kg	2000	400	5
Dibenzo(a,h)anthracene	ND		ug/kg	2000	380	5
Indeno(1,2,3-cd)pyrene	1600	J	ug/kg	2600	450	5
Pyrene	6200		ug/kg	2000	320	5
Biphenyl	ND		ug/kg	7400	760	5
4-Chloroaniline	ND		ug/kg	3200	590	5
2-Nitroaniline	ND		ug/kg	3200	630	5
3-Nitroaniline	ND		ug/kg	3200	610	5
4-Nitroaniline	ND		ug/kg	3200	1300	5
Dibenzofuran	2500	J	ug/kg	3200	310	5
2-Methylnaphthalene	790	J	ug/kg	3900	390	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3200	340	5
Acetophenone	ND		ug/kg	3200	400	5
2,4,6-Trichlorophenol	ND		ug/kg	2000	620	5
p-Chloro-m-cresol	ND		ug/kg	3200	480	5
2-Chlorophenol	ND		ug/kg	3200	380	5
2,4-Dichlorophenol	ND		ug/kg	2900	520	5
2,4-Dimethylphenol	ND		ug/kg	3200	1100	5
2-Nitrophenol	ND		ug/kg	7000	1200	5
4-Nitrophenol	ND		ug/kg	4600	1300	5
2,4-Dinitrophenol	ND		ug/kg	16000	1500	5
4,6-Dinitro-o-cresol	ND		ug/kg	8500	1600	5
Pentachlorophenol	ND		ug/kg	2600	720	5
Phenol	ND		ug/kg	3200	490	5
2-Methylphenol	ND		ug/kg	3200	500	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	4700	510	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-02 D
 Client ID: SB02_7-9
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 11:30
 Date Received: 02/11/21
 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	3200	620	5
Benzoic Acid	ND		ug/kg	10000	3300	5
Benzyl Alcohol	ND		ug/kg	3200	1000	5
Carbazole	ND		ug/kg	3200	320	5
1,4-Dioxane	ND		ug/kg	490	150	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	129	Q	23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	69		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-03
 Client ID: SB03_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 15:30
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/15/21 23:55
 Analyst: DW
 Percent Solids: 48%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	450	J	ug/kg	800	100	1
1,2,4-Trichlorobenzene	ND		ug/kg	1000	120	1
Hexachlorobenzene	ND		ug/kg	600	110	1
Bis(2-chloroethyl)ether	ND		ug/kg	910	140	1
2-Chloronaphthalene	ND		ug/kg	1000	100	1
1,2-Dichlorobenzene	ND		ug/kg	1000	180	1
1,3-Dichlorobenzene	ND		ug/kg	1000	170	1
1,4-Dichlorobenzene	ND		ug/kg	1000	180	1
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	1
2,4-Dinitrotoluene	ND		ug/kg	1000	200	1
2,6-Dinitrotoluene	ND		ug/kg	1000	170	1
Fluoranthene	5500		ug/kg	600	120	1
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	1
4-Bromophenyl phenyl ether	ND		ug/kg	1000	150	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	1
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	1
Hexachlorobutadiene	ND		ug/kg	1000	150	1
Hexachlorocyclopentadiene	ND		ug/kg	2900	910	1
Hexachloroethane	ND		ug/kg	800	160	1
Isophorone	ND		ug/kg	910	130	1
Naphthalene	220	J	ug/kg	1000	120	1
Nitrobenzene	ND		ug/kg	910	150	1
NDPA/DPA	ND		ug/kg	800	110	1
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	350	1
Butyl benzyl phthalate	ND		ug/kg	1000	250	1
Di-n-butylphthalate	ND		ug/kg	1000	190	1
Di-n-octylphthalate	ND		ug/kg	1000	340	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-03**Date Collected:** 02/11/21 15:30**Client ID:** SB03_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**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	1000	93.	1
Dimethyl phthalate	ND		ug/kg	1000	210	1
Benzo(a)anthracene	2200		ug/kg	600	110	1
Benzo(a)pyrene	2500		ug/kg	800	240	1
Benzo(b)fluoranthene	2900		ug/kg	600	170	1
Benzo(k)fluoranthene	910		ug/kg	600	160	1
Chrysene	2100		ug/kg	600	100	1
Acenaphthylene	ND		ug/kg	800	160	1
Anthracene	790		ug/kg	600	200	1
Benzo(ghi)perylene	1500		ug/kg	800	120	1
Fluorene	330	J	ug/kg	1000	98.	1
Phenanthrene	3300		ug/kg	600	120	1
Dibenzo(a,h)anthracene	290	J	ug/kg	600	120	1
Indeno(1,2,3-cd)pyrene	1500		ug/kg	800	140	1
Pyrene	5100		ug/kg	600	100	1
Biphenyl	ND		ug/kg	2300	230	1
4-Chloroaniline	ND		ug/kg	1000	180	1
2-Nitroaniline	ND		ug/kg	1000	190	1
3-Nitroaniline	ND		ug/kg	1000	190	1
4-Nitroaniline	ND		ug/kg	1000	420	1
Dibenzofuran	130	J	ug/kg	1000	95.	1
2-Methylnaphthalene	ND		ug/kg	1200	120	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	100	1
Acetophenone	ND		ug/kg	1000	120	1
2,4,6-Trichlorophenol	ND		ug/kg	600	190	1
p-Chloro-m-cresol	ND		ug/kg	1000	150	1
2-Chlorophenol	ND		ug/kg	1000	120	1
2,4-Dichlorophenol	ND		ug/kg	910	160	1
2,4-Dimethylphenol	ND		ug/kg	1000	330	1
2-Nitrophenol	ND		ug/kg	2200	380	1
4-Nitrophenol	ND		ug/kg	1400	410	1
2,4-Dinitrophenol	ND		ug/kg	4800	470	1
4,6-Dinitro-o-cresol	ND		ug/kg	2600	480	1
Pentachlorophenol	ND		ug/kg	800	220	1
Phenol	ND		ug/kg	1000	150	1
2-Methylphenol	ND		ug/kg	1000	160	1
3-Methylphenol/4-Methylphenol	600	J	ug/kg	1400	160	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-03**Date Collected:** 02/11/21 15:30**Client ID:** SB03_6-8**Date Received:** 02/11/21**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**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	1000	190	1
Benzoic Acid	ND		ug/kg	3300	1000	1
Benzyl Alcohol	ND		ug/kg	1000	310	1
Carbazole	230	J	ug/kg	1000	98.	1
1,4-Dioxane	ND		ug/kg	150	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	51		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/17/21 04:08
 Analyst: IM
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	980	J	ug/kg	2100	280	5
1,2,4-Trichlorobenzene	ND		ug/kg	2700	300	5
Hexachlorobenzene	ND		ug/kg	1600	300	5
Bis(2-chloroethyl)ether	ND		ug/kg	2400	360	5
2-Chloronaphthalene	ND		ug/kg	2700	260	5
1,2-Dichlorobenzene	ND		ug/kg	2700	480	5
1,3-Dichlorobenzene	ND		ug/kg	2700	460	5
1,4-Dichlorobenzene	ND		ug/kg	2700	470	5
3,3'-Dichlorobenzidine	ND		ug/kg	2700	710	5
2,4-Dinitrotoluene	ND		ug/kg	2700	530	5
2,6-Dinitrotoluene	ND		ug/kg	2700	460	5
Fluoranthene	ND		ug/kg	1600	310	5
4-Chlorophenyl phenyl ether	ND		ug/kg	2700	290	5
4-Bromophenyl phenyl ether	ND		ug/kg	2700	410	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	3200	460	5
Bis(2-chloroethoxy)methane	ND		ug/kg	2900	270	5
Hexachlorobutadiene	ND		ug/kg	2700	390	5
Hexachlorocyclopentadiene	ND		ug/kg	7600	2400	5
Hexachloroethane	ND		ug/kg	2100	430	5
Isophorone	ND		ug/kg	2400	350	5
Naphthalene	760	J	ug/kg	2700	320	5
Nitrobenzene	ND		ug/kg	2400	400	5
NDPA/DPA	ND		ug/kg	2100	300	5
n-Nitrosodi-n-propylamine	ND		ug/kg	2700	410	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2700	920	5
Butyl benzyl phthalate	ND		ug/kg	2700	670	5
Di-n-butylphthalate	ND		ug/kg	2700	510	5
Di-n-octylphthalate	ND		ug/kg	2700	910	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 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	2700	250	5
Dimethyl phthalate	ND		ug/kg	2700	560	5
Benzo(a)anthracene	ND		ug/kg	1600	300	5
Benzo(a)pyrene	ND		ug/kg	2100	650	5
Benzo(b)fluoranthene	ND		ug/kg	1600	450	5
Benzo(k)fluoranthene	ND		ug/kg	1600	430	5
Chrysene	ND		ug/kg	1600	280	5
Acenaphthylene	820	J	ug/kg	2100	410	5
Anthracene	680	J	ug/kg	1600	520	5
Benzo(ghi)perylene	ND		ug/kg	2100	310	5
Fluorene	2600	J	ug/kg	2700	260	5
Phenanthrene	3800		ug/kg	1600	320	5
Dibenzo(a,h)anthracene	ND		ug/kg	1600	310	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	2100	370	5
Pyrene	990	J	ug/kg	1600	260	5
Biphenyl	ND		ug/kg	6100	620	5
4-Chloroaniline	ND		ug/kg	2700	490	5
2-Nitroaniline	ND		ug/kg	2700	520	5
3-Nitroaniline	ND		ug/kg	2700	500	5
4-Nitroaniline	ND		ug/kg	2700	1100	5
Dibenzofuran	2200	J	ug/kg	2700	250	5
2-Methylnaphthalene	ND		ug/kg	3200	320	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2700	280	5
Acetophenone	ND		ug/kg	2700	330	5
2,4,6-Trichlorophenol	ND		ug/kg	1600	510	5
p-Chloro-m-cresol	ND		ug/kg	2700	400	5
2-Chlorophenol	ND		ug/kg	2700	320	5
2,4-Dichlorophenol	ND		ug/kg	2400	430	5
2,4-Dimethylphenol	ND		ug/kg	2700	880	5
2-Nitrophenol	ND		ug/kg	5800	1000	5
4-Nitrophenol	ND		ug/kg	3700	1100	5
2,4-Dinitrophenol	ND		ug/kg	13000	1200	5
4,6-Dinitro-o-cresol	ND		ug/kg	7000	1300	5
Pentachlorophenol	ND		ug/kg	2100	590	5
Phenol	ND		ug/kg	2700	400	5
2-Methylphenol	ND		ug/kg	2700	410	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	3800	420	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04 D
 Client ID: SB04_9-11
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 13:40
 Date Received: 02/11/21
 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	2700	510	5
Benzoic Acid	ND		ug/kg	8700	2700	5
Benzyl Alcohol	ND		ug/kg	2700	820	5
Carbazole	ND		ug/kg	2700	260	5
1,4-Dioxane	ND		ug/kg	400	120	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	143	Q	23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	86		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/17/21 02:59
 Analyst: IM
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	420	J	ug/kg	2100	270	5
1,2,4-Trichlorobenzene	ND		ug/kg	2600	300	5
Hexachlorobenzene	ND		ug/kg	1600	300	5
Bis(2-chloroethyl)ether	ND		ug/kg	2400	360	5
2-Chloronaphthalene	ND		ug/kg	2600	260	5
1,2-Dichlorobenzene	ND		ug/kg	2600	480	5
1,3-Dichlorobenzene	ND		ug/kg	2600	460	5
1,4-Dichlorobenzene	ND		ug/kg	2600	460	5
3,3'-Dichlorobenzidine	ND		ug/kg	2600	700	5
2,4-Dinitrotoluene	ND		ug/kg	2600	530	5
2,6-Dinitrotoluene	ND		ug/kg	2600	450	5
Fluoranthene	ND		ug/kg	1600	300	5
4-Chlorophenyl phenyl ether	ND		ug/kg	2600	280	5
4-Bromophenyl phenyl ether	ND		ug/kg	2600	400	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	3200	450	5
Bis(2-chloroethoxy)methane	ND		ug/kg	2800	260	5
Hexachlorobutadiene	ND		ug/kg	2600	390	5
Hexachlorocyclopentadiene	ND		ug/kg	7600	2400	5
Hexachloroethane	ND		ug/kg	2100	430	5
Isophorone	ND		ug/kg	2400	340	5
Naphthalene	380	J	ug/kg	2600	320	5
Nitrobenzene	ND		ug/kg	2400	390	5
NDPA/DPA	ND		ug/kg	2100	300	5
n-Nitrosodi-n-propylamine	ND		ug/kg	2600	410	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2600	920	5
Butyl benzyl phthalate	ND		ug/kg	2600	670	5
Di-n-butylphthalate	ND		ug/kg	2600	500	5
Di-n-octylphthalate	ND		ug/kg	2600	900	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 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	2600	240	5
Dimethyl phthalate	ND		ug/kg	2600	560	5
Benzo(a)anthracene	ND		ug/kg	1600	300	5
Benzo(a)pyrene	ND		ug/kg	2100	650	5
Benzo(b)fluoranthene	ND		ug/kg	1600	440	5
Benzo(k)fluoranthene	ND		ug/kg	1600	420	5
Chrysene	ND		ug/kg	1600	280	5
Acenaphthylene	470	J	ug/kg	2100	410	5
Anthracene	ND		ug/kg	1600	520	5
Benzo(ghi)perylene	ND		ug/kg	2100	310	5
Fluorene	1200	J	ug/kg	2600	260	5
Phenanthrene	1800		ug/kg	1600	320	5
Dibenzo(a,h)anthracene	ND		ug/kg	1600	310	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	2100	370	5
Pyrene	330	J	ug/kg	1600	260	5
Biphenyl	ND		ug/kg	6000	610	5
4-Chloroaniline	ND		ug/kg	2600	480	5
2-Nitroaniline	ND		ug/kg	2600	510	5
3-Nitroaniline	ND		ug/kg	2600	500	5
4-Nitroaniline	ND		ug/kg	2600	1100	5
Dibenzofuran	1100	J	ug/kg	2600	250	5
2-Methylnaphthalene	ND		ug/kg	3200	320	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2600	280	5
Acetophenone	ND		ug/kg	2600	330	5
2,4,6-Trichlorophenol	ND		ug/kg	1600	500	5
p-Chloro-m-cresol	ND		ug/kg	2600	390	5
2-Chlorophenol	ND		ug/kg	2600	310	5
2,4-Dichlorophenol	ND		ug/kg	2400	420	5
2,4-Dimethylphenol	ND		ug/kg	2600	870	5
2-Nitrophenol	ND		ug/kg	5700	1000	5
4-Nitrophenol	ND		ug/kg	3700	1100	5
2,4-Dinitrophenol	ND		ug/kg	13000	1200	5
4,6-Dinitro-o-cresol	ND		ug/kg	6900	1300	5
Pentachlorophenol	ND		ug/kg	2100	580	5
Phenol	ND		ug/kg	2600	400	5
2-Methylphenol	ND		ug/kg	2600	410	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	3800	410	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05 D
 Client ID: SB05_13-15
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 12:45
 Date Received: 02/11/21
 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	2600	510	5
Benzoic Acid	ND		ug/kg	8600	2700	5
Benzyl Alcohol	ND		ug/kg	2600	810	5
Carbazole	ND		ug/kg	2600	260	5
1,4-Dioxane	ND		ug/kg	400	120	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	34		10-136
4-Terphenyl-d14	77		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-06 D
 Client ID: SB06_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 14:10
 Date Received: 02/11/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/17/21 03:45
 Analyst: IM
 Percent Solids: 67%

Extraction Method: EPA 3546
 Extraction Date: 02/12/21 16:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1300	J	ug/kg	4800	630	25
1,2,4-Trichlorobenzene	ND		ug/kg	6000	690	25
Hexachlorobenzene	ND		ug/kg	3600	680	25
Bis(2-chloroethyl)ether	ND		ug/kg	5400	820	25
2-Chloronaphthalene	ND		ug/kg	6000	600	25
1,2-Dichlorobenzene	ND		ug/kg	6000	1100	25
1,3-Dichlorobenzene	ND		ug/kg	6000	1000	25
1,4-Dichlorobenzene	ND		ug/kg	6000	1000	25
3,3'-Dichlorobenzidine	ND		ug/kg	6000	1600	25
2,4-Dinitrotoluene	ND		ug/kg	6000	1200	25
2,6-Dinitrotoluene	ND		ug/kg	6000	1000	25
Fluoranthene	850	J	ug/kg	3600	690	25
4-Chlorophenyl phenyl ether	ND		ug/kg	6000	650	25
4-Bromophenyl phenyl ether	ND		ug/kg	6000	920	25
Bis(2-chloroisopropyl)ether	ND		ug/kg	7200	1000	25
Bis(2-chloroethoxy)methane	ND		ug/kg	6500	600	25
Hexachlorobutadiene	ND		ug/kg	6000	880	25
Hexachlorocyclopentadiene	ND		ug/kg	17000	5500	25
Hexachloroethane	ND		ug/kg	4800	980	25
Isophorone	ND		ug/kg	5400	780	25
Naphthalene	1300	J	ug/kg	6000	740	25
Nitrobenzene	ND		ug/kg	5400	890	25
NDPA/DPA	ND		ug/kg	4800	690	25
n-Nitrosodi-n-propylamine	ND		ug/kg	6000	930	25
Bis(2-ethylhexyl)phthalate	ND		ug/kg	6000	2100	25
Butyl benzyl phthalate	ND		ug/kg	6000	1500	25
Di-n-butylphthalate	ND		ug/kg	6000	1100	25
Di-n-octylphthalate	ND		ug/kg	6000	2000	25

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-06 D
 Client ID: SB06_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 14:10
 Date Received: 02/11/21
 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	6000	560	25
Dimethyl phthalate	ND		ug/kg	6000	1300	25
Benzo(a)anthracene	ND		ug/kg	3600	680	25
Benzo(a)pyrene	ND		ug/kg	4800	1500	25
Benzo(b)fluoranthene	ND		ug/kg	3600	1000	25
Benzo(k)fluoranthene	ND		ug/kg	3600	970	25
Chrysene	ND		ug/kg	3600	630	25
Acenaphthylene	ND		ug/kg	4800	930	25
Anthracene	ND		ug/kg	3600	1200	25
Benzo(ghi)perylene	ND		ug/kg	4800	710	25
Fluorene	2700	J	ug/kg	6000	590	25
Phenanthrene	3700		ug/kg	3600	740	25
Dibenzo(a,h)anthracene	ND		ug/kg	3600	700	25
Indeno(1,2,3-cd)pyrene	ND		ug/kg	4800	840	25
Pyrene	1000	J	ug/kg	3600	600	25
Biphenyl	ND		ug/kg	14000	1400	25
4-Chloroaniline	ND		ug/kg	6000	1100	25
2-Nitroaniline	ND		ug/kg	6000	1200	25
3-Nitroaniline	ND		ug/kg	6000	1100	25
4-Nitroaniline	ND		ug/kg	6000	2500	25
Dibenzofuran	1400	J	ug/kg	6000	570	25
2-Methylnaphthalene	18000		ug/kg	7200	730	25
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6000	630	25
Acetophenone	ND		ug/kg	6000	750	25
2,4,6-Trichlorophenol	ND		ug/kg	3600	1100	25
p-Chloro-m-cresol	ND		ug/kg	6000	900	25
2-Chlorophenol	ND		ug/kg	6000	710	25
2,4-Dichlorophenol	ND		ug/kg	5400	970	25
2,4-Dimethylphenol	ND		ug/kg	6000	2000	25
2-Nitrophenol	ND		ug/kg	13000	2300	25
4-Nitrophenol	ND		ug/kg	8500	2500	25
2,4-Dinitrophenol	ND		ug/kg	29000	2800	25
4,6-Dinitro-o-cresol	ND		ug/kg	16000	2900	25
Pentachlorophenol	ND		ug/kg	4800	1300	25
Phenol	ND		ug/kg	6000	910	25
2-Methylphenol	ND		ug/kg	6000	940	25
3-Methylphenol/4-Methylphenol	ND		ug/kg	8700	950	25

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-06 D
 Client ID: SB06_6-8
 Sample Location: BROOKLYN/ QUEENS, NEW YORK

Date Collected: 02/11/21 14:10
 Date Received: 02/11/21
 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	6000	1200	25
Benzoic Acid	ND		ug/kg	20000	6100	25
Benzyl Alcohol	ND		ug/kg	6000	1800	25
Carbazole	ND		ug/kg	6000	590	25
1,4-Dioxane	ND		ug/kg	910	280	25

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

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 12:34
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 02/12/21 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1464250-1					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 12:34
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 02/12/21 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1464250-1					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 12:34
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 02/12/21 12:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1464250-1					
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.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	86		18-120

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 20:59
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/12/21 16:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1464323-1					
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	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 20:59
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/12/21 16:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1464323-1					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 20:59
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/12/21 16:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1464323-1					
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.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1464250-2 WG1464250-3								
Acenaphthene	70		67		31-137	4		50
1,2,4-Trichlorobenzene	72		69		38-107	4		50
Hexachlorobenzene	82		75		40-140	9		50
Bis(2-chloroethyl)ether	66		62		40-140	6		50
2-Chloronaphthalene	79		78		40-140	1		50
1,2-Dichlorobenzene	64		61		40-140	5		50
1,3-Dichlorobenzene	65		62		40-140	5		50
1,4-Dichlorobenzene	62		60		28-104	3		50
3,3'-Dichlorobenzidine	50		48		40-140	4		50
2,4-Dinitrotoluene	90		84		40-132	7		50
2,6-Dinitrotoluene	93		84		40-140	10		50
Fluoranthene	78		73		40-140	7		50
4-Chlorophenyl phenyl ether	81		75		40-140	8		50
4-Bromophenyl phenyl ether	85		80		40-140	6		50
Bis(2-chloroisopropyl)ether	76		74		40-140	3		50
Bis(2-chloroethoxy)methane	83		77		40-117	8		50
Hexachlorobutadiene	70		65		40-140	7		50
Hexachlorocyclopentadiene	78		72		40-140	8		50
Hexachloroethane	60		57		40-140	5		50
Isophorone	73		70		40-140	4		50
Naphthalene	72		69		40-140	4		50
Nitrobenzene	79		77		40-140	3		50
NDPA/DPA	83		79		36-157	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1464250-2 WG1464250-3								
n-Nitrosodi-n-propylamine	87		82		32-121	6		50
Bis(2-ethylhexyl)phthalate	87		82		40-140	6		50
Butyl benzyl phthalate	84		77		40-140	9		50
Di-n-butylphthalate	85		79		40-140	7		50
Di-n-octylphthalate	86		80		40-140	7		50
Diethyl phthalate	78		73		40-140	7		50
Dimethyl phthalate	82		79		40-140	4		50
Benzo(a)anthracene	79		76		40-140	4		50
Benzo(a)pyrene	85		81		40-140	5		50
Benzo(b)fluoranthene	83		78		40-140	6		50
Benzo(k)fluoranthene	71		67		40-140	6		50
Chrysene	71		68		40-140	4		50
Acenaphthylene	79		76		40-140	4		50
Anthracene	72		70		40-140	3		50
Benzo(ghi)perylene	76		72		40-140	5		50
Fluorene	81		76		40-140	6		50
Phenanthrene	76		72		40-140	5		50
Dibenzo(a,h)anthracene	77		72		40-140	7		50
Indeno(1,2,3-cd)pyrene	85		79		40-140	7		50
Pyrene	76		71		35-142	7		50
Biphenyl	88		84		37-127	5		50
4-Chloroaniline	39	Q	41		40-140	5		50
2-Nitroaniline	93		86		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1464250-2 WG1464250-3								
3-Nitroaniline	49		50		26-129	2		50
4-Nitroaniline	77		75		41-125	3		50
Dibenzofuran	80		75		40-140	6		50
2-Methylnaphthalene	82		77		40-140	6		50
1,2,4,5-Tetrachlorobenzene	89		83		40-117	7		50
Acetophenone	91		87		14-144	4		50
2,4,6-Trichlorophenol	101		93		30-130	8		50
p-Chloro-m-cresol	91		86		26-103	6		50
2-Chlorophenol	76		74		25-102	3		50
2,4-Dichlorophenol	90		86		30-130	5		50
2,4-Dimethylphenol	84		80		30-130	5		50
2-Nitrophenol	83		79		30-130	5		50
4-Nitrophenol	98		92		11-114	6		50
2,4-Dinitrophenol	84		80		4-130	5		50
4,6-Dinitro-o-cresol	83		77		10-130	8		50
Pentachlorophenol	93		86		17-109	8		50
Phenol	78		75		26-90	4		50
2-Methylphenol	80		77		30-130.	4		50
3-Methylphenol/4-Methylphenol	86		83		30-130	4		50
2,4,5-Trichlorophenol	90		81		30-130	11		50
Benzoic Acid	69		73		10-110	6		50
Benzyl Alcohol	91		88		40-140	3		50
Carbazole	79		75		54-128	5		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1464250-2 WG1464250-3								
1,4-Dioxane	49		50		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		71		25-120
Phenol-d6	83		79		10-120
Nitrobenzene-d5	82		77		23-120
2-Fluorobiphenyl	82		79		30-120
2,4,6-Tribromophenol	96		89		10-136
4-Terphenyl-d14	83		73		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

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: WG1464323-2 WG1464323-3								
Acenaphthene	85		77		31-137	10		50
1,2,4-Trichlorobenzene	88		83		38-107	6		50
Hexachlorobenzene	102		91		40-140	11		50
Bis(2-chloroethyl)ether	79		76		40-140	4		50
2-Chloronaphthalene	90		81		40-140	11		50
1,2-Dichlorobenzene	76		74		40-140	3		50
1,3-Dichlorobenzene	73		72		40-140	1		50
1,4-Dichlorobenzene	74		73		28-104	1		50
3,3'-Dichlorobenzidine	53		50		40-140	6		50
2,4-Dinitrotoluene	90		81		40-132	11		50
2,6-Dinitrotoluene	109		97		40-140	12		50
Fluoranthene	92		82		40-140	11		50
4-Chlorophenyl phenyl ether	92		82		40-140	11		50
4-Bromophenyl phenyl ether	98		87		40-140	12		50
Bis(2-chloroisopropyl)ether	76		74		40-140	3		50
Bis(2-chloroethoxy)methane	86		80		40-117	7		50
Hexachlorobutadiene	91		84		40-140	8		50
Hexachlorocyclopentadiene	80		76		40-140	5		50
Hexachloroethane	79		78		40-140	1		50
Isophorone	88		83		40-140	6		50
Naphthalene	83		77		40-140	8		50
Nitrobenzene	90		86		40-140	5		50
NDPA/DPA	93		83		36-157	11		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

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: WG1464323-2 WG1464323-3								
n-Nitrosodi-n-propylamine	92		87		32-121	6		50
Bis(2-ethylhexyl)phthalate	101		91		40-140	10		50
Butyl benzyl phthalate	98		88		40-140	11		50
Di-n-butylphthalate	98		88		40-140	11		50
Di-n-octylphthalate	96		87		40-140	10		50
Diethyl phthalate	94		86		40-140	9		50
Dimethyl phthalate	99		88		40-140	12		50
Benzo(a)anthracene	86		78		40-140	10		50
Benzo(a)pyrene	96		88		40-140	9		50
Benzo(b)fluoranthene	92		84		40-140	9		50
Benzo(k)fluoranthene	93		86		40-140	8		50
Chrysene	88		82		40-140	7		50
Acenaphthylene	91		82		40-140	10		50
Anthracene	89		80		40-140	11		50
Benzo(ghi)perylene	91		82		40-140	10		50
Fluorene	90		81		40-140	11		50
Phenanthrene	88		80		40-140	10		50
Dibenzo(a,h)anthracene	90		81		40-140	11		50
Indeno(1,2,3-cd)pyrene	89		81		40-140	9		50
Pyrene	92		82		35-142	11		50
Biphenyl	83		75		37-127	10		50
4-Chloroaniline	67		61		40-140	9		50
2-Nitroaniline	106		97		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

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: WG1464323-2 WG1464323-3								
3-Nitroaniline	50		46		26-129	8		50
4-Nitroaniline	90		82		41-125	9		50
Dibenzofuran	87		80		40-140	8		50
2-Methylnaphthalene	86		78		40-140	10		50
1,2,4,5-Tetrachlorobenzene	87		81		40-117	7		50
Acetophenone	83		79		14-144	5		50
2,4,6-Trichlorophenol	107		98		30-130	9		50
p-Chloro-m-cresol	102		91		26-103	11		50
2-Chlorophenol	88		84		25-102	5		50
2,4-Dichlorophenol	101		93		30-130	8		50
2,4-Dimethylphenol	93		88		30-130	6		50
2-Nitrophenol	100		96		30-130	4		50
4-Nitrophenol	107		97		11-114	10		50
2,4-Dinitrophenol	104		98		4-130	6		50
4,6-Dinitro-o-cresol	108		98		10-130	10		50
Pentachlorophenol	102		93		17-109	9		50
Phenol	86		82		26-90	5		50
2-Methylphenol	93		86		30-130	8		50
3-Methylphenol/4-Methylphenol	95		89		30-130	7		50
2,4,5-Trichlorophenol	108		97		30-130	11		50
Benzoic Acid	71		72		10-110	1		50
Benzyl Alcohol	90		85		40-140	6		50
Carbazole	91		82		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2106775

Project Number: 170663101

Report Date: 02/17/21

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: WG1464323-2 WG1464323-3								
1,4-Dioxane	57		58		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		78		25-120
Phenol-d6	86		81		10-120
Nitrobenzene-d5	85		80		23-120
2-Fluorobiphenyl	86		77		30-120
2,4,6-Tribromophenol	113		99		10-136
4-Terphenyl-d14	86		75		18-120

METALS

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-01

Date Collected: 02/11/21 11:00

Client ID: SB01_5-6

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

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	2720		mg/kg	10.7	2.89	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Antimony, Total	1.14	J	mg/kg	5.36	0.407	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Arsenic, Total	40.4		mg/kg	1.07	0.223	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Barium, Total	142		mg/kg	1.07	0.186	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Beryllium, Total	0.214	J	mg/kg	0.536	0.035	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Cadmium, Total	0.975	J	mg/kg	1.07	0.105	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Calcium, Total	2930		mg/kg	10.7	3.75	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Chromium, Total	7.64		mg/kg	1.07	0.103	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Cobalt, Total	7.17		mg/kg	2.14	0.178	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Copper, Total	1600		mg/kg	1.07	0.276	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Iron, Total	15800		mg/kg	5.36	0.968	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Lead, Total	608		mg/kg	5.36	0.287	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Magnesium, Total	673		mg/kg	10.7	1.65	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Manganese, Total	80.0		mg/kg	1.07	0.170	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Mercury, Total	2.88		mg/kg	0.102	0.067	1	02/13/21 03:24	02/16/21 20:25	EPA 7471B	1,7471B	NB
Nickel, Total	12.6		mg/kg	2.68	0.259	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Potassium, Total	427		mg/kg	268	15.4	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Selenium, Total	3.20		mg/kg	2.14	0.276	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Silver, Total	0.493	J	mg/kg	1.07	0.303	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Sodium, Total	243		mg/kg	214	3.38	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.14	0.338	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Vanadium, Total	15.8		mg/kg	1.07	0.218	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV
Zinc, Total	517		mg/kg	5.36	0.314	2	02/13/21 03:32	02/15/21 19:14	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-02

Date Collected: 02/11/21 11:30

Client ID: SB02_7-9

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7580		mg/kg	10.5	2.84	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Antimony, Total	1.25	J	mg/kg	5.26	0.400	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Arsenic, Total	11.6		mg/kg	1.05	0.219	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Barium, Total	150		mg/kg	1.05	0.183	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Beryllium, Total	0.326	J	mg/kg	0.526	0.035	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Cadmium, Total	1.58		mg/kg	1.05	0.103	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Calcium, Total	9300		mg/kg	10.5	3.68	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Chromium, Total	32.0		mg/kg	1.05	0.101	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Cobalt, Total	6.95		mg/kg	2.10	0.175	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Copper, Total	219		mg/kg	1.05	0.271	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Iron, Total	22500		mg/kg	5.26	0.950	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Lead, Total	466		mg/kg	5.26	0.282	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Magnesium, Total	3260		mg/kg	10.5	1.62	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Manganese, Total	200		mg/kg	1.05	0.167	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Mercury, Total	10.9		mg/kg	0.881	0.574	10	02/13/21 03:24	02/16/21 23:32	EPA 7471B	1,7471B	NB
Nickel, Total	19.2		mg/kg	2.63	0.254	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Potassium, Total	537		mg/kg	263	15.1	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Selenium, Total	0.926	J	mg/kg	2.10	0.271	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Silver, Total	0.379	J	mg/kg	1.05	0.298	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Sodium, Total	400		mg/kg	210	3.31	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.10	0.331	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Vanadium, Total	51.2		mg/kg	1.05	0.214	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV
Zinc, Total	335		mg/kg	5.26	0.308	2	02/13/21 03:32	02/15/21 19:19	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-03

Date Collected: 02/11/21 15:30

Client ID: SB03_6-8

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 48%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3620		mg/kg	16.0	4.32	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Antimony, Total	2.31	J	mg/kg	8.01	0.609	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Arsenic, Total	21.6		mg/kg	1.60	0.333	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Barium, Total	216		mg/kg	1.60	0.279	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Beryllium, Total	0.208	J	mg/kg	0.801	0.053	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Cadmium, Total	1.20	J	mg/kg	1.60	0.157	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Calcium, Total	49200		mg/kg	16.0	5.60	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Chromium, Total	18.7		mg/kg	1.60	0.154	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Cobalt, Total	9.67		mg/kg	3.20	0.266	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Copper, Total	117		mg/kg	1.60	0.413	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Iron, Total	18300		mg/kg	8.01	1.45	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Lead, Total	1110		mg/kg	8.01	0.429	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Magnesium, Total	1440		mg/kg	16.0	2.47	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Manganese, Total	230		mg/kg	1.60	0.255	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Mercury, Total	5.66		mg/kg	0.154	0.100	1	02/13/21 03:24	02/16/21 20:34	EPA 7471B	1,7471B	NB
Nickel, Total	20.1		mg/kg	4.00	0.388	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Potassium, Total	657		mg/kg	400	23.1	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Selenium, Total	5.46		mg/kg	3.20	0.413	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Silver, Total	0.641	J	mg/kg	1.60	0.453	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Sodium, Total	739		mg/kg	320	5.04	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	3.20	0.504	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Vanadium, Total	20.7		mg/kg	1.60	0.325	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV
Zinc, Total	570		mg/kg	8.01	0.469	2	02/13/21 03:32	02/15/21 19:23	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-04

Date Collected: 02/11/21 13:40

Client ID: SB04_9-11

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

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	5020		mg/kg	8.60	2.32	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.30	0.327	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Arsenic, Total	1.21		mg/kg	0.860	0.179	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Barium, Total	22.9		mg/kg	0.860	0.150	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Beryllium, Total	0.180	J	mg/kg	0.430	0.028	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Cadmium, Total	0.310	J	mg/kg	0.860	0.084	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Calcium, Total	498		mg/kg	8.60	3.01	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Chromium, Total	11.2		mg/kg	0.860	0.083	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Cobalt, Total	4.09		mg/kg	1.72	0.143	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Copper, Total	9.91		mg/kg	0.860	0.222	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Iron, Total	13400		mg/kg	4.30	0.776	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Lead, Total	3.88	J	mg/kg	4.30	0.230	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Magnesium, Total	1320		mg/kg	8.60	1.32	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Manganese, Total	102		mg/kg	0.860	0.137	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.047	1	02/13/21 03:24	02/16/21 20:38	EPA 7471B	1,7471B	NB
Nickel, Total	8.29		mg/kg	2.15	0.208	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Potassium, Total	540		mg/kg	215	12.4	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Selenium, Total	0.292	J	mg/kg	1.72	0.222	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.860	0.243	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Sodium, Total	70.3	J	mg/kg	172	2.71	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.72	0.271	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Vanadium, Total	19.0		mg/kg	0.860	0.174	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV
Zinc, Total	19.0		mg/kg	4.30	0.252	2	02/13/21 03:32	02/15/21 19:28	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-05

Date Collected: 02/11/21 12:45

Client ID: SB05_13-15

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

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	3120		mg/kg	8.54	2.30	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.27	0.324	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Arsenic, Total	1.64		mg/kg	0.854	0.178	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Barium, Total	45.1		mg/kg	0.854	0.148	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Beryllium, Total	0.145	J	mg/kg	0.427	0.028	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Cadmium, Total	0.333	J	mg/kg	0.854	0.084	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Calcium, Total	417		mg/kg	8.54	2.99	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Chromium, Total	8.31		mg/kg	0.854	0.082	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Cobalt, Total	7.91		mg/kg	1.71	0.142	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Copper, Total	10.9		mg/kg	0.854	0.220	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Iron, Total	13800		mg/kg	4.27	0.771	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Lead, Total	5.84		mg/kg	4.27	0.229	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Magnesium, Total	1310		mg/kg	8.54	1.31	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Manganese, Total	159		mg/kg	0.854	0.136	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.078	0.051	1	02/13/21 03:24	02/16/21 20:41	EPA 7471B	1,7471B	NB
Nickel, Total	8.06		mg/kg	2.13	0.207	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Potassium, Total	492		mg/kg	213	12.3	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Selenium, Total	0.342	J	mg/kg	1.71	0.220	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.854	0.242	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Sodium, Total	68.7	J	mg/kg	171	2.69	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.71	0.269	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Vanadium, Total	21.3		mg/kg	0.854	0.173	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV
Zinc, Total	22.1		mg/kg	4.27	0.250	2	02/13/21 03:32	02/15/21 19:42	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2106775**Project Number:** 170663101**Report Date:** 02/17/21**SAMPLE RESULTS**

Lab ID: L2106775-06

Date Collected: 02/11/21 14:10

Client ID: SB06_6-8

Date Received: 02/11/21

Sample Location: BROOKLYN/ QUEENS, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8510		mg/kg	11.4	3.09	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.73	0.435	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Arsenic, Total	2.74		mg/kg	1.14	0.238	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Barium, Total	8.48		mg/kg	1.14	0.199	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Beryllium, Total	0.229	J	mg/kg	0.573	0.038	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Cadmium, Total	0.378	J	mg/kg	1.14	0.112	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Calcium, Total	665		mg/kg	11.4	4.01	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Chromium, Total	16.8		mg/kg	1.14	0.110	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Cobalt, Total	5.14		mg/kg	2.29	0.190	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Copper, Total	7.54		mg/kg	1.14	0.296	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Iron, Total	16900		mg/kg	5.73	1.03	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Lead, Total	23.1		mg/kg	5.73	0.307	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Magnesium, Total	2210		mg/kg	11.4	1.76	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Manganese, Total	76.0		mg/kg	1.14	0.182	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Mercury, Total	5.87		mg/kg	0.225	0.147	2	02/13/21 03:24	02/16/21 23:35	EPA 7471B	1,7471B	NB
Nickel, Total	10.4		mg/kg	2.86	0.277	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Potassium, Total	462		mg/kg	286	16.5	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.29	0.296	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.14	0.324	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Sodium, Total	140	J	mg/kg	229	3.61	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.29	0.361	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Vanadium, Total	22.3		mg/kg	1.14	0.232	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV
Zinc, Total	31.3		mg/kg	5.73	0.336	2	02/13/21 03:32	02/15/21 19:46	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2106775

Project Number: 170663101

Report Date: 02/17/21

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): 01-06 Batch: WG1464223-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Iron, Total	0.704	J	mg/kg	2.00	0.361	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Manganese, Total	0.068	J	mg/kg	0.400	0.064	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Sodium, Total	31.3	J	mg/kg	80.0	1.26	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/13/21 03:32	02/15/21 17:45	1,6010D	BV

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): 01-06 Batch: WG1464225-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	02/13/21 03:24	02/16/21 19:22	1,7471B	NB



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2106775

Project Number: 170663101

Report Date: 02/17/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1464223-2 SRM Lot Number: D109-540								
Aluminum, Total	64		-		50-150	-		
Antimony, Total	183		-		19-250	-		
Arsenic, Total	110		-		70-130	-		
Barium, Total	100		-		75-125	-		
Beryllium, Total	106		-		75-125	-		
Cadmium, Total	108		-		75-125	-		
Calcium, Total	105		-		73-128	-		
Chromium, Total	106		-		70-130	-		
Cobalt, Total	110		-		75-125	-		
Copper, Total	103		-		75-125	-		
Iron, Total	98		-		35-165	-		
Lead, Total	105		-		72-128	-		
Magnesium, Total	87		-		62-138	-		
Manganese, Total	99		-		74-126	-		
Nickel, Total	109		-		70-130	-		
Potassium, Total	85		-		59-141	-		
Selenium, Total	108		-		68-132	-		
Silver, Total	104		-		68-131	-		
Sodium, Total	118		-		35-165	-		
Thallium, Total	104		-		68-131	-		
Vanadium, Total	104		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1464223-2 SRM Lot Number: D109-540					
Zinc, Total	104	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1464225-2 SRM Lot Number: D109-540					
Mercury, Total	100	-	60-140	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

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): 01-06			QC Batch ID: WG1464223-3			QC Sample: L2106713-01			Client ID: MS Sample			
Aluminum, Total	8540	212	10100	734	Q	-	-		75-125	-		20
Antimony, Total	ND	53.1	40.2	76		-	-		75-125	-		20
Arsenic, Total	9.30	12.7	25.0	123		-	-		75-125	-		20
Barium, Total	30.9	212	217	88		-	-		75-125	-		20
Beryllium, Total	0.309J	5.31	4.85	91		-	-		75-125	-		20
Cadmium, Total	0.480J	5.42	5.07	94		-	-		75-125	-		20
Calcium, Total	2470	1060	5270	264	Q	-	-		75-125	-		20
Chromium, Total	26.2	21.2	39.4	62	Q	-	-		75-125	-		20
Cobalt, Total	9.28	53.1	49.7	76		-	-		75-125	-		20
Copper, Total	16.0	26.6	36.0	75		-	-		75-125	-		20
Iron, Total	18600	106	19200	565	Q	-	-		75-125	-		20
Lead, Total	14.9	54.2	62.0	87		-	-		75-125	-		20
Magnesium, Total	2670	1060	3560	84		-	-		75-125	-		20
Manganese, Total	349	53.1	361	22	Q	-	-		75-125	-		20
Nickel, Total	19.6	53.1	56.5	69	Q	-	-		75-125	-		20
Potassium, Total	596	1060	1510	86		-	-		75-125	-		20
Selenium, Total	0.629J	12.7	10.4	82		-	-		75-125	-		20
Silver, Total	ND	31.9	26.7	84		-	-		75-125	-		20
Sodium, Total	150J	1060	1110	104		-	-		75-125	-		20
Thallium, Total	ND	12.7	9.96	78		-	-		75-125	-		20
Vanadium, Total	20.2	53.1	64.9	84		-	-		75-125	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

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: WG1464223-3		QC Sample: L2106713-01		Client ID: MS Sample			
Zinc, Total	59.8	53.1	92.3	61	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-06			QC Batch ID: WG1464225-3		QC Sample: L2106713-01		Client ID: MS Sample			
Mercury, Total	0.077J	0.199	0.305	154	Q	-	-	80-120	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2106775

Report Date: 02/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1464223-4 QC Sample: L2106713-01 Client ID: DUP Sample						
Aluminum, Total	8540	8710	mg/kg	2		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	9.30	15.2	mg/kg	48	Q	20
Barium, Total	30.9	39.0	mg/kg	23	Q	20
Beryllium, Total	0.309J	0.347J	mg/kg	NC		20
Cadmium, Total	0.480J	0.484J	mg/kg	NC		20
Calcium, Total	2470	4280	mg/kg	54	Q	20
Chromium, Total	26.2	21.6	mg/kg	19		20
Cobalt, Total	9.28	7.31	mg/kg	24	Q	20
Copper, Total	16.0	13.3	mg/kg	18		20
Iron, Total	18600	17600	mg/kg	6		20
Lead, Total	14.9	19.5	mg/kg	27	Q	20
Magnesium, Total	2670	2530	mg/kg	5		20
Manganese, Total	349	373	mg/kg	7		20
Nickel, Total	19.6	15.7	mg/kg	22	Q	20
Potassium, Total	596	566	mg/kg	5		20
Selenium, Total	0.629J	0.684J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	150J	141J	mg/kg	NC		20

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2106775
Report Date: 02/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1464223-4 QC Sample: L2106713-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	20.2	20.2	mg/kg	0	20
Zinc, Total	59.8	46.6	mg/kg	25 Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1464225-4 QC Sample: L2106713-01 Client ID: DUP Sample					
Mercury, Total	0.077J	0.077J	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-01**Client ID:** SB01_5-6**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 11:00**Date Received:** 02/11/21**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	72.4		%	0.100	NA	1	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-02**Client ID:** SB02_7-9**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 11:30**Date Received:** 02/11/21**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	73.7		%	0.100	NA	1	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-03**Client ID:** SB03_6-8**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 15:30**Date Received:** 02/11/21**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	48.4		%	0.100	NA	1	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-04**Client ID:** SB04_9-11**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 13:40**Date Received:** 02/11/21**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	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-05**Client ID:** SB05_13-15**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 12:45**Date Received:** 02/11/21**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	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2106775**Report Date:** 02/17/21**SAMPLE RESULTS****Lab ID:** L2106775-06**Client ID:** SB06_6-8**Sample Location:** BROOKLYN/ QUEENS, NEW YORK**Date Collected:** 02/11/21 14:10**Date Received:** 02/11/21**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	67.0		%	0.100	NA	1	-	02/12/21 10:50	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Serial_No:02172113:34
Lab Number: L2106775
Report Date: 02/17/21

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(*)
L2106775-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-01B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-01C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-01D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2106775-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),SE-Ti(180),PB-Ti(180),ZN-Ti(180),SB-Ti(180),V-Ti(180),CO-Ti(180),FE-Ti(180),MG-Ti(180),MN-Ti(180),HG-T(28),CD-Ti(180),CA-Ti(180),K-Ti(180),NA-Ti(180)
L2106775-01F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2106775-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-02B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-02C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-02D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2106775-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),AL-Ti(180),SE-Ti(180),PB-Ti(180),SB-Ti(180),CU-Ti(180),ZN-Ti(180),V-Ti(180),CO-Ti(180),FE-Ti(180),MN-Ti(180),HG-T(28),MG-Ti(180),NA-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180)
L2106775-02F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2106775-03A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-03B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-03C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-03D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Serial_No: 02172113:34
Lab Number: L2106775
Report Date: 02/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2106775-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),CU-Ti(180),PB-Ti(180),SE-Ti(180),SB-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),HG-T(28),MN-Ti(180),FE-Ti(180),K-Ti(180),NA-Ti(180),CD-Ti(180),CA-Ti(180)
L2106775-03F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2106775-04A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-04B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-04C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-04D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2106775-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),PB-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),FE-Ti(180),K-Ti(180),CA-Ti(180),CD-Ti(180),NA-Ti(180)
L2106775-04F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2106775-04X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-05A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-05B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-05C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-05D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2106775-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),NI-Ti(180),TL-Ti(180),CR-Ti(180),AL-Ti(180),SE-Ti(180),SB-Ti(180),ZN-Ti(180),PB-Ti(180),CU-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),MN-Ti(180),HG-T(28),MG-Ti(180),NA-Ti(180),CD-Ti(180),CA-Ti(180),K-Ti(180)
L2106775-05F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2106775-06A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2106775-06B	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-06C	Vial water preserved	A	NA		3.4	Y	Absent	12-FEB-21 07:32	NYTCL-8260HLW(14)
L2106775-06D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Serial_No:02172113:34
Lab Number: L2106775
Report Date: 02/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2106775-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2106775-06F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

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.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

Data Qualifiers

- 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.

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2106775
Report Date: 02/17/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 18

Published Date: 2/16/2021 5:32:02 PM

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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, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** 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, SM4500CI-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, SM9222D.****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, EPA 537.1.****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.

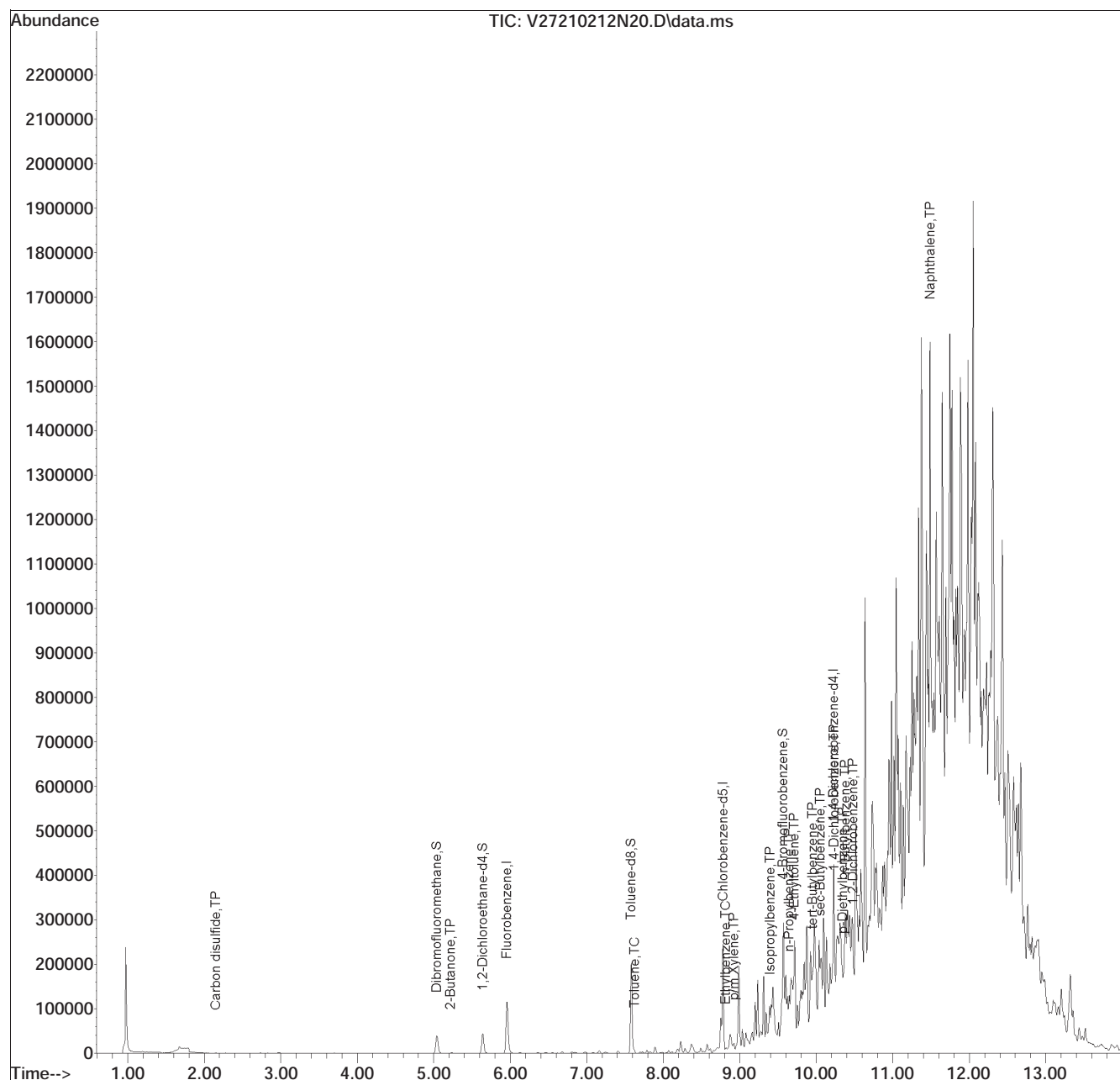
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Quantitation Report (QT Reviewed)

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 Operator : VOA127:MKS
 Sample : L2106775-01,31H,4.98,5,0.100,,A,PRI
 Misc : WG1464823,ICAL17521
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 13 12:14:09 2021
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 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jan 15 12:56:45 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10212N\V27210212N01.D•

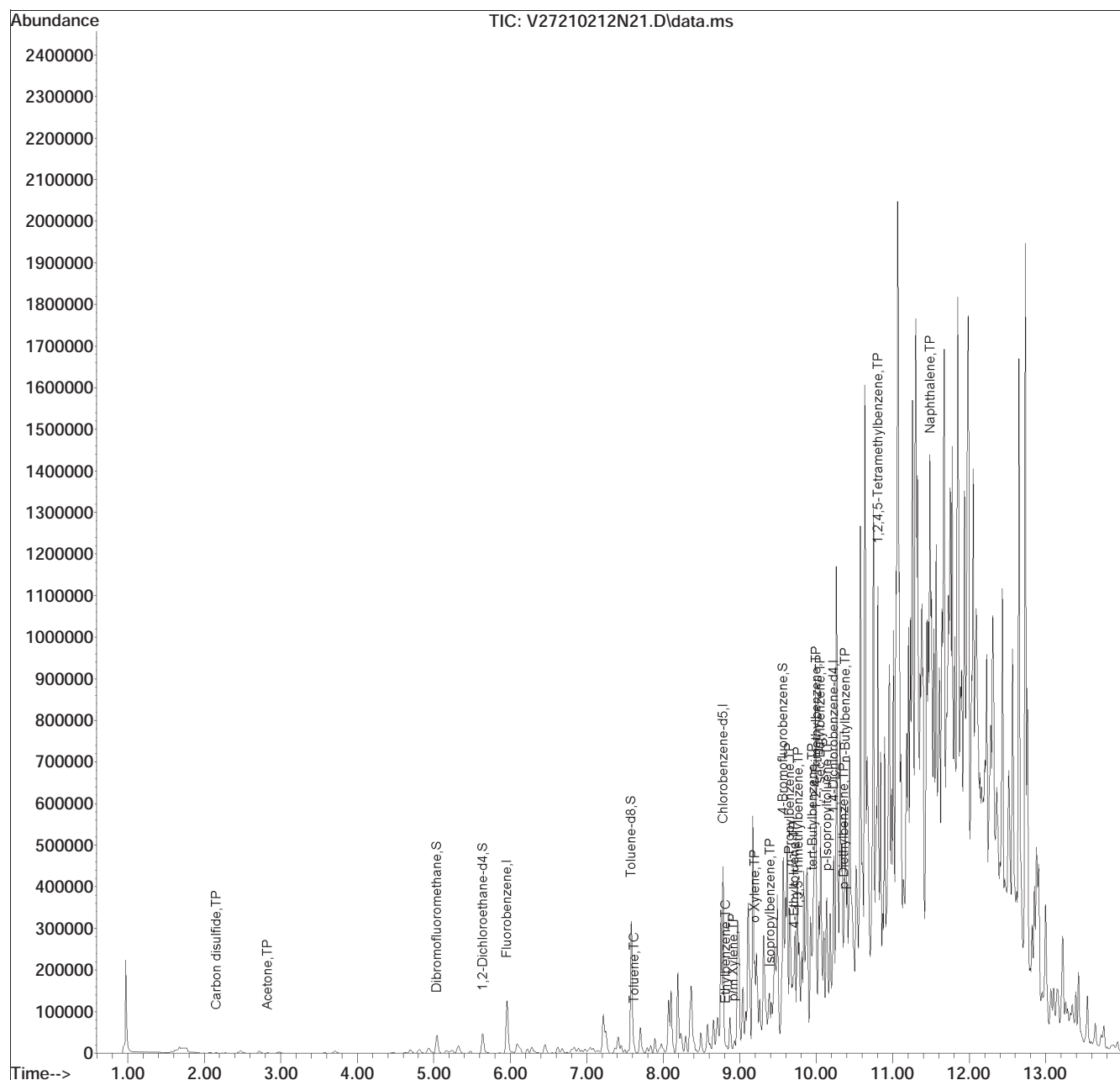


Quantitation Report (QT Reviewed)

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 Sample : L2106775-02,31H,4.66,5,0.100,,A,PRI
 Misc : WG1464823,ICAL17521
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 12:15:02 2021
 Quant Method : I:\VOLATILES\VOA127\2021\210212N\V127_210114N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jan 15 12:56:45 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10212N\V27210212N01.D•

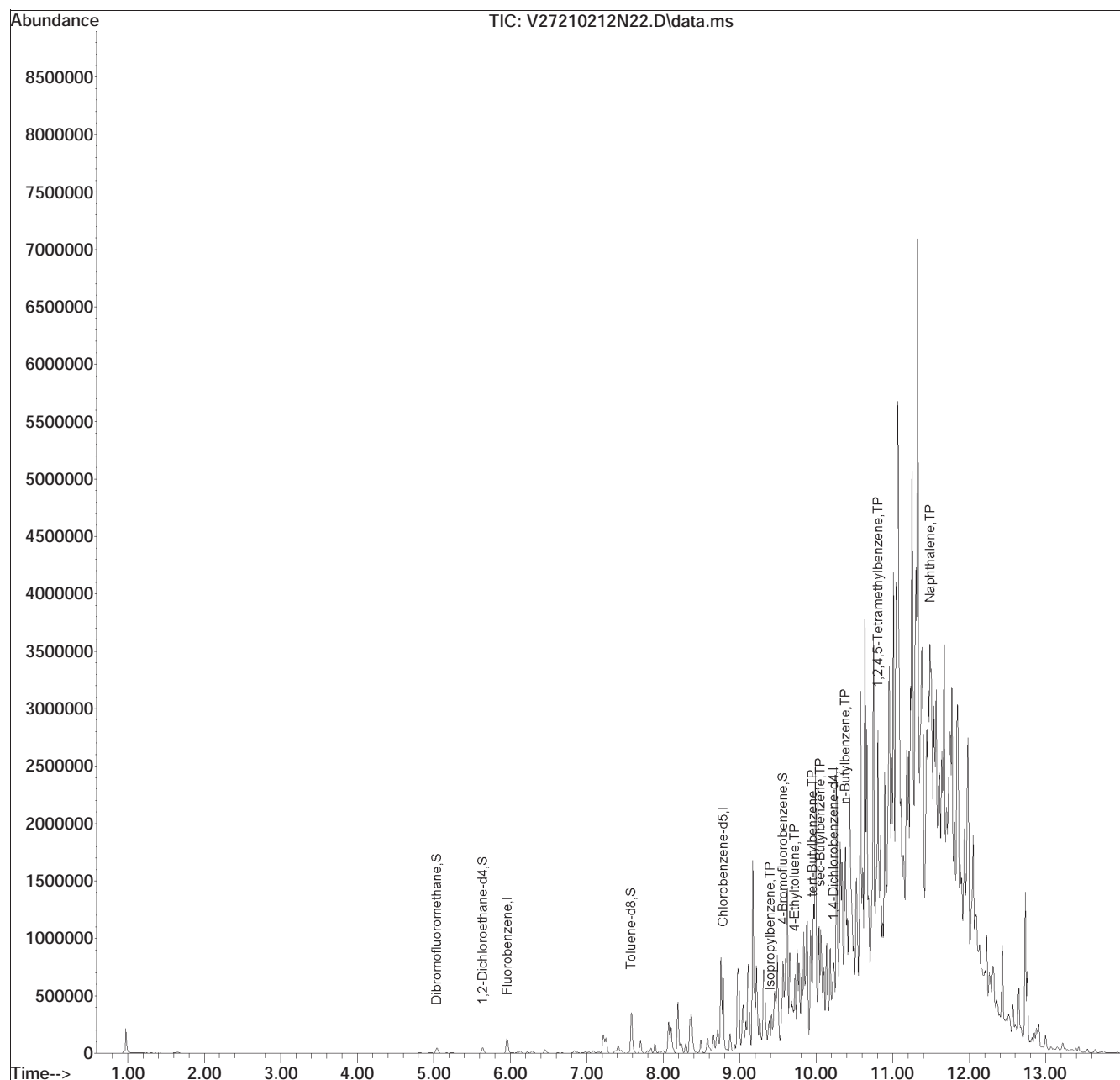


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Sample : L2106775-04D,31H,5.29,5,0.025,,X
Misc : WG1464823,ICAL17521
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 13 12:15:56 2021
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Quant Title : VOLATILES BY GC/MS
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Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10212N\V27210212N01.D•

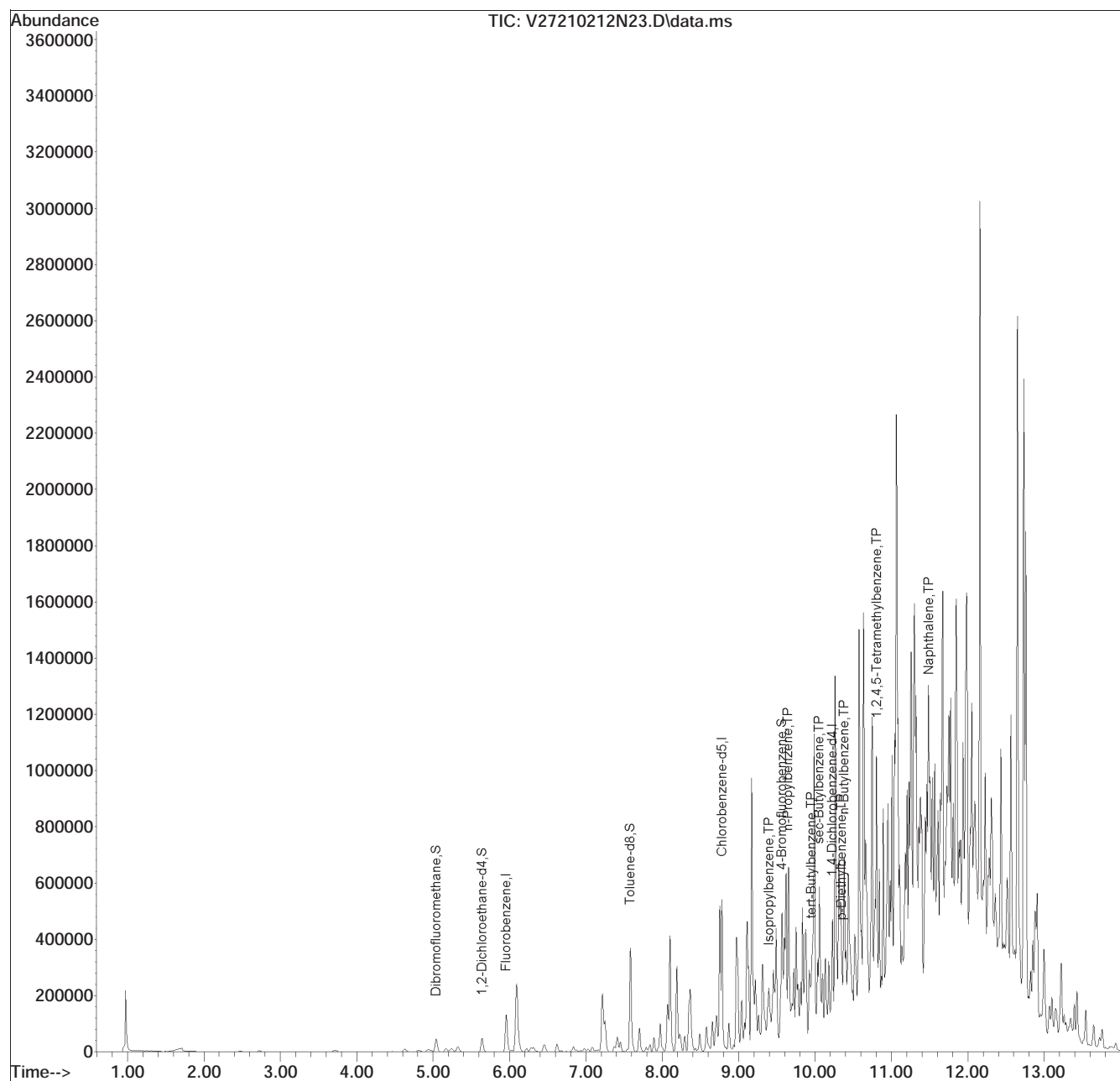


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\210212N\
Data File : V27210212N23.D
Acq On : 13 Feb 2021 12:29 am
Operator : VOA127:MKS
Sample : L2106775-05D,31H,5.75,5,0.050,,A,PRI
Misc : WG1464823,ICAL17521
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 13 12:16:42 2021
Quant Method : I:\VOLATILES\VOA127\2021\210212N\V127_210114N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jan 15 12:56:45 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10212N\V27210212N01.D•

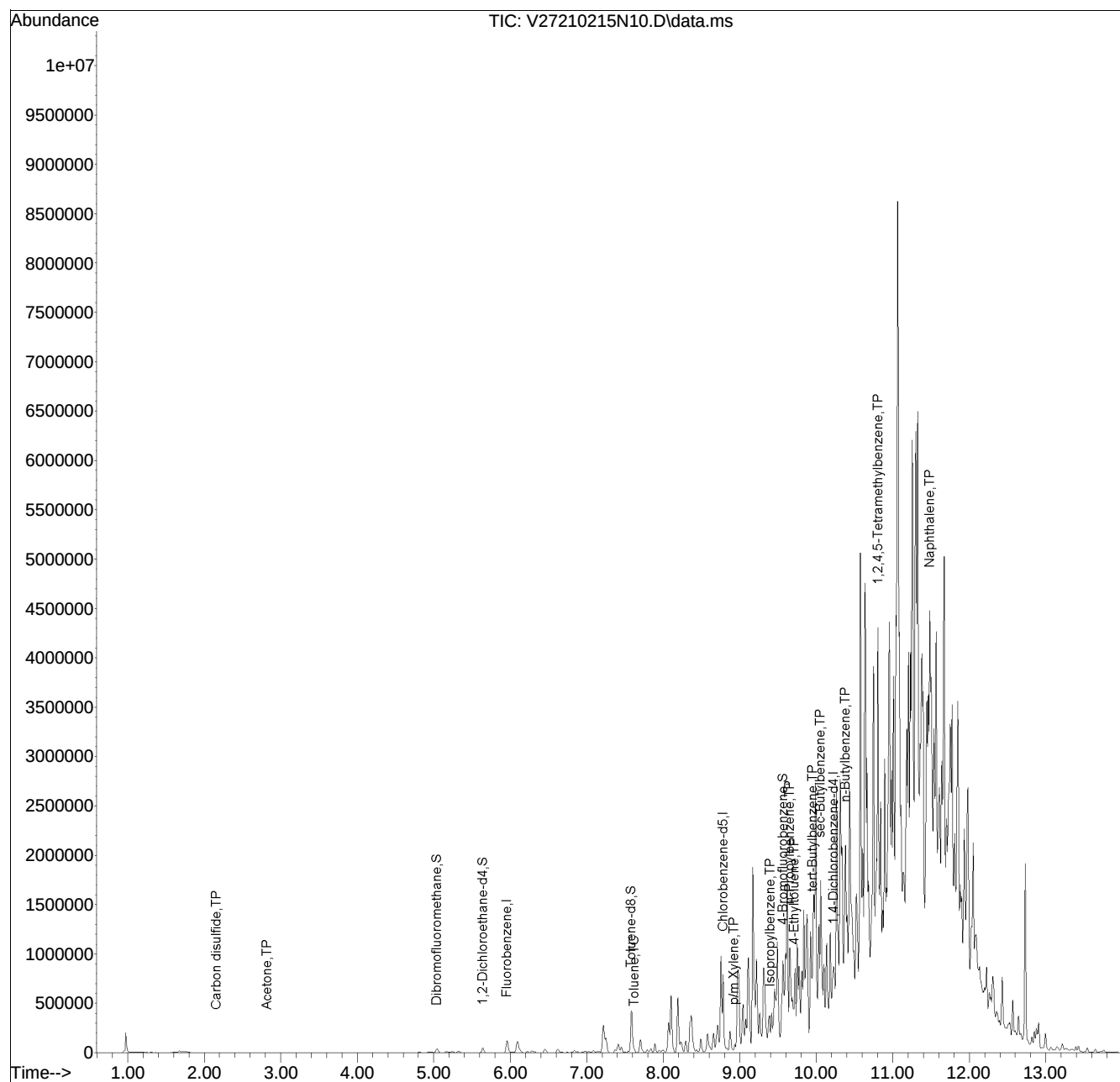


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\210215N\
Data File : V27210215N10.D
Acq On : 15 Feb 2021 07:31 pm
Operator : VOA127:JC
Sample : L2106775-06, 31H, 4.44, 5, 0.100,, A, PRI
Misc : WG1465218, ICAL17521
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 08:34:44 2021
Quant Method : I:\VOLATILES\VOA127\2021\210215N\V127_210114N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jan 15 12:56:45 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10215N\V27210215N01.D•





ANALYTICAL REPORT

Lab Number:	L2107086
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Paul McMahon
Phone:	(212) 479-5429
Project Name:	46-81 METROPOLITAN AVENUE
Project Number:	170663101
Report Date:	02/18/21

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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: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2107086-01	SB15_6-8	SOIL	QUEENS, NY	02/12/21 15:45	02/12/21
L2107086-02	SB08_6-8	SOIL	QUEENS, NY	02/12/21 13:45	02/12/21
L2107086-03	SB10_6-8	SOIL	QUEENS, NY	02/12/21 15:15	02/12/21
L2107086-04	SB07_5-7	SOIL	QUEENS, NY	02/12/21 10:40	02/12/21
L2107086-05	SB09_3-5	SOIL	QUEENS, NY	02/12/21 14:30	02/12/21
L2107086-06	SB14_6-8	SOIL	QUEENS, NY	02/12/21 11:30	02/12/21
L2107086-07	SB13_5-7	SOIL	QUEENS, NY	02/12/21 12:10	02/12/21
L2107086-08	MW09_021221	WATER	QUEENS, NY	02/12/21 15:25	02/12/21
L2107086-09	MW03_021221	WATER	QUEENS, NY	02/12/21 11:51	02/12/21

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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.

The samples were field filtered for Dissolved Metals.

Volatile Organics

L2107086-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (141%); 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.

L2107086-04: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (64%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2107086-09D: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

Semivolatile Organics

L2107086-04: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (9%) and 2,4,6-tribromophenol (3%); however, re-extraction achieved similar results: 2-fluorophenol (11%) and 2,4,6-tribromophenol (6%). The results of both extractions are reported.

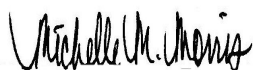
L2107086-07D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2107086-01 through -07: These samples have elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: 02/18/21

ORGANICS

VOLATILES

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-01

Date Collected: 02/12/21 15:45

Client ID: SB15_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 01:45

Analyst: JC

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	260	120	1
1,1-Dichloroethane	ND		ug/kg	53	7.6	1
Chloroform	ND		ug/kg	79	7.4	1
Carbon tetrachloride	ND		ug/kg	53	12.	1
1,2-Dichloropropane	ND		ug/kg	53	6.6	1
Dibromochloromethane	ND		ug/kg	53	7.4	1
1,1,2-Trichloroethane	ND		ug/kg	53	14.	1
Tetrachloroethene	ND		ug/kg	26	10.	1
Chlorobenzene	ND		ug/kg	26	6.7	1
Trichlorofluoromethane	ND		ug/kg	210	37.	1
1,2-Dichloroethane	ND		ug/kg	53	14.	1
1,1,1-Trichloroethane	ND		ug/kg	26	8.8	1
Bromodichloromethane	ND		ug/kg	26	5.8	1
trans-1,3-Dichloropropene	ND		ug/kg	53	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	26	8.3	1
1,3-Dichloropropene, Total	ND		ug/kg	26	8.3	1
1,1-Dichloropropene	ND		ug/kg	26	8.4	1
Bromoform	ND		ug/kg	210	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	8.8	1
Benzene	ND		ug/kg	26	8.8	1
Toluene	ND		ug/kg	53	29.	1
Ethylbenzene	59		ug/kg	53	7.4	1
Chloromethane	ND		ug/kg	210	49.	1
Bromomethane	ND		ug/kg	100	31.	1
Vinyl chloride	ND		ug/kg	53	18.	1
Chloroethane	ND		ug/kg	100	24.	1
1,1-Dichloroethene	ND		ug/kg	53	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	79	7.2	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-01

Date Collected: 02/12/21 15:45

Client ID: SB15_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

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	26	7.2	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.6	1
1,3-Dichlorobenzene	ND		ug/kg	100	7.8	1
1,4-Dichlorobenzene	ND		ug/kg	100	9.0	1
Methyl tert butyl ether	ND		ug/kg	100	11.	1
p/m-Xylene	52	J	ug/kg	100	30.	1
o-Xylene	130		ug/kg	53	15.	1
Xylenes, Total	180	J	ug/kg	53	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	53	9.2	1
1,2-Dichloroethene, Total	ND		ug/kg	53	7.2	1
Dibromomethane	ND		ug/kg	100	12.	1
Styrene	ND		ug/kg	53	10.	1
Dichlorodifluoromethane	ND		ug/kg	530	48.	1
Acetone	ND		ug/kg	530	250	1
Carbon disulfide	ND		ug/kg	530	240	1
2-Butanone	ND		ug/kg	530	120	1
Vinyl acetate	ND		ug/kg	530	110	1
4-Methyl-2-pentanone	ND		ug/kg	530	68.	1
1,2,3-Trichloropropane	ND		ug/kg	100	6.7	1
2-Hexanone	ND		ug/kg	530	62.	1
Bromochloromethane	ND		ug/kg	100	11.	1
2,2-Dichloropropane	ND		ug/kg	100	11.	1
1,2-Dibromoethane	ND		ug/kg	53	15.	1
1,3-Dichloropropane	ND		ug/kg	100	8.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	26	7.0	1
Bromobenzene	ND		ug/kg	100	7.6	1
n-Butylbenzene	4100		ug/kg	53	8.8	1
sec-Butylbenzene	2400		ug/kg	53	7.7	1
tert-Butylbenzene	530		ug/kg	100	6.2	1
o-Chlorotoluene	ND		ug/kg	100	10.	1
p-Chlorotoluene	ND		ug/kg	100	5.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	53.	1
Hexachlorobutadiene	ND		ug/kg	210	8.9	1
Isopropylbenzene	1700		ug/kg	53	5.8	1
p-Isopropyltoluene	530		ug/kg	53	5.8	1
Naphthalene	6300		ug/kg	210	34.	1
Acrylonitrile	ND		ug/kg	210	61.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-01**Date Collected:** 02/12/21 15:45**Client ID:** SB15_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	3600		ug/kg	53	9.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	61	J	ug/kg	100	10.	1
1,2,4-Trimethylbenzene	1400		ug/kg	100	18.	1
1,4-Dioxane	ND		ug/kg	4200	1800	1
p-Diethylbenzene	2000		ug/kg	100	9.3	1
p-Ethyltoluene	170		ug/kg	100	20.	1
1,2,4,5-Tetramethylbenzene	7400		ug/kg	100	10.	1
Ethyl ether	ND		ug/kg	100	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	260	75.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	141	Q	70-130
Dibromofluoromethane	78		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-02

Date Collected: 02/12/21 13:45

Client ID: SB08_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 02:10

Analyst: JC

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-02**Date Collected:** 02/12/21 13:45**Client ID:** SB08_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.50	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	48		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	7.8	J	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-02**Date Collected:** 02/12/21 13:45**Client ID:** SB08_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.30	1
1,4-Dioxane	ND		ug/kg	71	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	0.20	J	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	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	82		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-03

Date Collected: 02/12/21 15:15

Client ID: SB10_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 03:24

Analyst: JC

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	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	0.44	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	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.14	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	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	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		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	0.51	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-03**Date Collected:** 02/12/21 15:15**Client ID:** SB10_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	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	0.90	J	ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	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	0.80	1
Acetone	14		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	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	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.7	0.13	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	0.17	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-03**Date Collected:** 02/12/21 15:15**Client ID:** SB10_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	70	31.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.17	1
Ethyl ether	ND		ug/kg	1.7	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	90		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	82		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 02:35

Analyst: JC

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.16	J	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-04**Date Collected:** 02/12/21 10:40**Client ID:** SB07_5-7**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	34		ug/kg	9.5	4.6	1
Carbon disulfide	7.4	J	ug/kg	9.5	4.3	1
2-Butanone	2.1	J	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-04
Client ID: SB07_5-7
Sample Location: QUEENS, NY

Date Collected: 02/12/21 10:40
Date Received: 02/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	76	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	91		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	64	Q	70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05

Date Collected: 02/12/21 14:30

Client ID: SB09_3-5

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 02:59

Analyst: JC

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.70	0.27	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.97	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.81	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-05**Date Collected:** 02/12/21 14:30**Client ID:** SB09_3-5**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	0.39	J	ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	26		ug/kg	14	6.7	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	3.8	J	ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.91	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-05
Client ID: SB09_3-5
Sample Location: QUEENS, NY

Date Collected: 02/12/21 14:30
Date Received: 02/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
1,4-Dioxane	ND		ug/kg	110	49.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	82		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-06

Date Collected: 02/12/21 11:30

Client ID: SB14_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 09:29

Analyst: MV

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-06**Date Collected:** 02/12/21 11:30**Client ID:** SB14_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	240		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	63		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-06
Client ID: SB14_6-8
Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:30
Date Received: 02/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	84		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-07

Date Collected: 02/12/21 12:10

Client ID: SB13_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/16/21 09:54

Analyst: MV

Percent Solids: 59%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.76	0.30	1
Chlorobenzene	ND		ug/kg	0.76	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	0.25	1
Bromodichloromethane	ND		ug/kg	0.76	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.76	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	0.25	1
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-07**Date Collected:** 02/12/21 12:10**Client ID:** SB13_5-7**Date Received:** 02/12/21**Sample Location:** QUEENS, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.76	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	1.3	J	ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.85	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	220		ug/kg	15	7.3	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	55		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-07
Client ID: SB13_5-7
Sample Location: QUEENS, NY

Date Collected: 02/12/21 12:10
Date Received: 02/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.49	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.52	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	84		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 02/13/21 17:01
 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	0.78	J	ug/l	2.5	0.70	1
Vinyl chloride	0.11	J	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

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	0.97	J	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-08
Client ID: MW09_021221
Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
Date Received: 02/12/21
Field Prep: Refer to COC

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	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09 D

Date Collected: 02/12/21 11:51

Client ID: MW03_021221

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 02/13/21 17:24

Analyst: PD

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	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09 D

Date Collected: 02/12/21 11:51

Client ID: MW03_021221

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		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	ND		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	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09 D

Date Collected: 02/12/21 11:51

Client ID: MW03_021221

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		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	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/13/21 11:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464756-5					
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
1,1,1,2-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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/13/21 11:37
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464756-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/13/21 11:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464756-5					
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	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/16/21 06:57
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06-07 Batch: WG1465139-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/16/21 06:57
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06-07 Batch: WG1465139-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/16/21 06:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06-07 Batch: WG1465139-5					
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	80	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	87		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	80		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 19:07
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-05 Batch: WG1465186-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 19:07
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-05 Batch: WG1465186-5					
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	0.24	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/15/21 19:07
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-05 Batch: WG1465186-5					
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	80	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	87		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	79		70-130

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 19:07
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1465188-5					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/15/21 19:07
 Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1465188-5					
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	12	J	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/15/21 19:07
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1465188-5					
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	4000	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	87		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	79		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464756-3 WG1464756-4								
Methylene chloride	88		86		70-130	2		20
1,1-Dichloroethane	89		86		70-130	3		20
Chloroform	91		88		70-130	3		20
Carbon tetrachloride	86		83		63-132	4		20
1,2-Dichloropropane	87		85		70-130	2		20
Dibromochloromethane	98		97		63-130	1		20
1,1,2-Trichloroethane	93		94		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	96		93		75-130	3		20
Trichlorofluoromethane	90		88		62-150	2		20
1,2-Dichloroethane	89		87		70-130	2		20
1,1,1-Trichloroethane	95		92		67-130	3		20
Bromodichloromethane	91		89		67-130	2		20
trans-1,3-Dichloropropene	96		96		70-130	0		20
cis-1,3-Dichloropropene	90		89		70-130	1		20
1,1-Dichloropropene	91		88		70-130	3		20
Bromoform	94		96		54-136	2		20
1,1,2,2-Tetrachloroethane	90		91		67-130	1		20
Benzene	91		87		70-130	4		20
Toluene	100		96		70-130	4		20
Ethylbenzene	95		92		70-130	3		20
Chloromethane	93		88		64-130	6		20
Bromomethane	95		95		39-139	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464756-3 WG1464756-4								
Vinyl chloride	79		75		55-140	5		20
Chloroethane	84		78		55-138	7		20
1,1-Dichloroethene	87		84		61-145	4		20
trans-1,2-Dichloroethene	90		87		70-130	3		20
Trichloroethene	93		92		70-130	1		20
1,2-Dichlorobenzene	98		95		70-130	3		20
1,3-Dichlorobenzene	99		96		70-130	3		20
1,4-Dichlorobenzene	99		95		70-130	4		20
Methyl tert butyl ether	84		86		63-130	2		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	93		90		70-130	3		20
Dibromomethane	83		86		70-130	4		20
1,2,3-Trichloropropane	92		91		64-130	1		20
Acrylonitrile	72		76		70-130	5		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	76		72		36-147	5		20
Acetone	86		87		58-148	1		20
Carbon disulfide	86		82		51-130	5		20
2-Butanone	82		89		63-138	8		20
Vinyl acetate	77		77		70-130	0		20
4-Methyl-2-pentanone	79		83		59-130	5		20
2-Hexanone	71		74		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464756-3 WG1464756-4								
Bromochloromethane	98		96		70-130	2		20
2,2-Dichloropropane	100		98		63-133	2		20
1,2-Dibromoethane	93		95		70-130	2		20
1,3-Dichloropropane	93		92		70-130	1		20
1,1,1,2-Tetrachloroethane	98		95		64-130	3		20
Bromobenzene	100		96		70-130	4		20
n-Butylbenzene	100		96		53-136	4		20
sec-Butylbenzene	100		97		70-130	3		20
tert-Butylbenzene	100		99		70-130	1		20
o-Chlorotoluene	99		94		70-130	5		20
p-Chlorotoluene	99		94		70-130	5		20
1,2-Dibromo-3-chloropropane	83		88		41-144	6		20
Hexachlorobutadiene	120		110		63-130	9		20
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	89		97		70-130	9		20
n-Propylbenzene	100		95		69-130	5		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
1,4-Dioxane	66		68		56-162	3		20
p-Diethylbenzene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464756-3 WG1464756-4								
p-Ethyltoluene	100		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	110		100		70-130	10		20
Ethyl ether	82		82		59-134	0		20
trans-1,4-Dichloro-2-butene	77		79		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	110		109		70-130
4-Bromofluorobenzene	107		105		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06-07 Batch: WG1465139-3 WG1465139-4								
Methylene chloride	95		93		70-130	2		30
1,1-Dichloroethane	108		106		70-130	2		30
Chloroform	95		93		70-130	2		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	104		104		70-130	0		30
Dibromochloromethane	93		95		70-130	2		30
1,1,2-Trichloroethane	106		108		70-130	2		30
Tetrachloroethene	120		117		70-130	3		30
Chlorobenzene	107		106		70-130	1		30
Trichlorofluoromethane	101		96		70-139	5		30
1,2-Dichloroethane	94		97		70-130	3		30
1,1,1-Trichloroethane	105		101		70-130	4		30
Bromodichloromethane	97		98		70-130	1		30
trans-1,3-Dichloropropene	106		107		70-130	1		30
cis-1,3-Dichloropropene	92		93		70-130	1		30
1,1-Dichloropropene	112		109		70-130	3		30
Bromoform	96		99		70-130	3		30
1,1,2,2-Tetrachloroethane	110		111		70-130	1		30
Benzene	104		102		70-130	2		30
Toluene	111		108		70-130	3		30
Ethylbenzene	114		111		70-130	3		30
Chloromethane	107		102		52-130	5		30
Bromomethane	98		94		57-147	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06-07 Batch: WG1465139-3 WG1465139-4								
Vinyl chloride	115		107		67-130	7		30
Chloroethane	133		128		50-151	4		30
1,1-Dichloroethene	105		101		65-135	4		30
trans-1,2-Dichloroethene	104		100		70-130	4		30
Trichloroethene	106		104		70-130	2		30
1,2-Dichlorobenzene	106		106		70-130	0		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	108		107		70-130	1		30
Methyl tert butyl ether	88		90		66-130	2		30
p/m-Xylene	113		110		70-130	3		30
o-Xylene	108		107		70-130	1		30
cis-1,2-Dichloroethene	97		96		70-130	1		30
Dibromomethane	93		95		70-130	2		30
Styrene	108		107		70-130	1		30
Dichlorodifluoromethane	90		84		30-146	7		30
Acetone	100		104		54-140	4		30
Carbon disulfide	93		90		59-130	3		30
2-Butanone	102		103		70-130	1		30
Vinyl acetate	99		102		70-130	3		30
4-Methyl-2-pentanone	104		110		70-130	6		30
1,2,3-Trichloropropane	108		110		68-130	2		30
2-Hexanone	98		104		70-130	6		30
Bromochloromethane	92		93		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06-07 Batch: WG1465139-3 WG1465139-4								
2,2-Dichloropropane	104		101		70-130	3		30
1,2-Dibromoethane	91		93		70-130	2		30
1,3-Dichloropropane	104		106		69-130	2		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	105		103		70-130	2		30
n-Butylbenzene	125		123		70-130	2		30
sec-Butylbenzene	120		116		70-130	3		30
tert-Butylbenzene	115		112		70-130	3		30
o-Chlorotoluene	112		109		70-130	3		30
p-Chlorotoluene	113		110		70-130	3		30
1,2-Dibromo-3-chloropropane	87		92		68-130	6		30
Hexachlorobutadiene	123		120		67-130	2		30
Isopropylbenzene	116		112		70-130	4		30
p-Isopropyltoluene	118		115		70-130	3		30
Naphthalene	103		106		70-130	3		30
Acrylonitrile	97		102		70-130	5		30
n-Propylbenzene	120		116		70-130	3		30
1,2,3-Trichlorobenzene	108		111		70-130	3		30
1,2,4-Trichlorobenzene	115		115		70-130	0		30
1,3,5-Trimethylbenzene	114		111		70-130	3		30
1,2,4-Trimethylbenzene	113		110		70-130	3		30
1,4-Dioxane	80		78		65-136	3		30
p-Diethylbenzene	118		116		70-130	2		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06-07 Batch: WG1465139-3 WG1465139-4								
p-Ethyltoluene	117		113		70-130	3		30
1,2,4,5-Tetramethylbenzene	109		108		70-130	1		30
Ethyl ether	98		98		67-130	0		30
trans-1,4-Dichloro-2-butene	122		127		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		90		70-130
Toluene-d8	90		90		70-130
4-Bromofluorobenzene	83		83		70-130
Dibromofluoromethane	81		81		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-05 Batch: WG1465186-3 WG1465186-4								
Methylene chloride	89		85		70-130	5		30
1,1-Dichloroethane	97		92		70-130	5		30
Chloroform	85		83		70-130	2		30
Carbon tetrachloride	85		82		70-130	4		30
1,2-Dichloropropane	96		95		70-130	1		30
Dibromochloromethane	91		91		70-130	0		30
1,1,2-Trichloroethane	105		104		70-130	1		30
Tetrachloroethene	104		98		70-130	6		30
Chlorobenzene	99		95		70-130	4		30
Trichlorofluoromethane	82		78		70-139	5		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	89		85		70-130	5		30
Bromodichloromethane	91		91		70-130	0		30
trans-1,3-Dichloropropene	103		102		70-130	1		30
cis-1,3-Dichloropropene	86		86		70-130	0		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	98		99		70-130	1		30
1,1,2,2-Tetrachloroethane	110		111		70-130	1		30
Benzene	92		88		70-130	4		30
Toluene	100		95		70-130	5		30
Ethylbenzene	100		96		70-130	4		30
Chloromethane	92		87		52-130	6		30
Bromomethane	87		81		57-147	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-05 Batch: WG1465186-3 WG1465186-4								
Vinyl chloride	92		87		67-130	6		30
Chloroethane	106		104		50-151	2		30
1,1-Dichloroethene	89		82		65-135	8		30
trans-1,2-Dichloroethene	89		84		70-130	6		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	102		100		70-130	2		30
1,3-Dichlorobenzene	104		99		70-130	5		30
1,4-Dichlorobenzene	102		98		70-130	4		30
Methyl tert butyl ether	87		86		66-130	1		30
p/m-Xylene	100		96		70-130	4		30
o-Xylene	99		94		70-130	5		30
cis-1,2-Dichloroethene	90		87		70-130	3		30
Dibromomethane	90		91		70-130	1		30
Styrene	100		97		70-130	3		30
Dichlorodifluoromethane	75		70		30-146	7		30
Acetone	100		100		54-140	0		30
Carbon disulfide	78		74		59-130	5		30
2-Butanone	97		104		70-130	7		30
Vinyl acetate	96		96		70-130	0		30
4-Methyl-2-pentanone	106		112		70-130	6		30
1,2,3-Trichloropropane	108		108		68-130	0		30
2-Hexanone	102		104		70-130	2		30
Bromochloromethane	88		88		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-05 Batch: WG1465186-3 WG1465186-4								
2,2-Dichloropropane	87		83		70-130	5		30
1,2-Dibromoethane	90		91		70-130	1		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	100		97		70-130	3		30
Bromobenzene	102		98		70-130	4		30
n-Butylbenzene	109		102		70-130	7		30
sec-Butylbenzene	104		98		70-130	6		30
tert-Butylbenzene	102		95		70-130	7		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	103		99		70-130	4		30
1,2-Dibromo-3-chloropropane	91		96		68-130	5		30
Hexachlorobutadiene	113		106		67-130	6		30
Isopropylbenzene	102		96		70-130	6		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	110		108		70-130	2		30
Acrylonitrile	94		99		70-130	5		30
n-Propylbenzene	105		99		70-130	6		30
1,2,3-Trichlorobenzene	111		106		70-130	5		30
1,2,4-Trichlorobenzene	113		106		70-130	6		30
1,3,5-Trimethylbenzene	102		97		70-130	5		30
1,2,4-Trimethylbenzene	103		98		70-130	5		30
1,4-Dioxane	82		80		65-136	2		30
p-Diethylbenzene	105		98		70-130	7		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-05 Batch: WG1465186-3 WG1465186-4								
p-Ethyltoluene	104		98		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		97		70-130	7		30
Ethyl ether	95		92		67-130	3		30
trans-1,4-Dichloro-2-butene	123		122		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		89		70-130
Toluene-d8	92		90		70-130
4-Bromofluorobenzene	85		83		70-130
Dibromofluoromethane	80		82		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1465188-3 WG1465188-4								
Methylene chloride	89		85		70-130	5		30
1,1-Dichloroethane	97		92		70-130	5		30
Chloroform	85		83		70-130	2		30
Carbon tetrachloride	85		82		70-130	4		30
1,2-Dichloropropane	96		95		70-130	1		30
Dibromochloromethane	91		91		70-130	0		30
1,1,2-Trichloroethane	105		104		70-130	1		30
Tetrachloroethene	104		98		70-130	6		30
Chlorobenzene	99		95		70-130	4		30
Trichlorofluoromethane	82		78		70-139	5		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	89		85		70-130	5		30
Bromodichloromethane	91		91		70-130	0		30
trans-1,3-Dichloropropene	103		102		70-130	1		30
cis-1,3-Dichloropropene	86		86		70-130	0		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	98		99		70-130	1		30
1,1,2,2-Tetrachloroethane	110		111		70-130	1		30
Benzene	92		88		70-130	4		30
Toluene	100		95		70-130	5		30
Ethylbenzene	100		96		70-130	4		30
Chloromethane	92		87		52-130	6		30
Bromomethane	87		81		57-147	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1465188-3 WG1465188-4								
Vinyl chloride	92		87		67-130	6		30
Chloroethane	106		104		50-151	2		30
1,1-Dichloroethene	89		82		65-135	8		30
trans-1,2-Dichloroethene	89		84		70-130	6		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	102		100		70-130	2		30
1,3-Dichlorobenzene	104		99		70-130	5		30
1,4-Dichlorobenzene	102		98		70-130	4		30
Methyl tert butyl ether	87		86		66-130	1		30
p/m-Xylene	100		96		70-130	4		30
o-Xylene	99		94		70-130	5		30
cis-1,2-Dichloroethene	90		87		70-130	3		30
Dibromomethane	90		91		70-130	1		30
Styrene	100		97		70-130	3		30
Dichlorodifluoromethane	75		70		30-146	7		30
Acetone	100		100		54-140	0		30
Carbon disulfide	78		74		59-130	5		30
2-Butanone	97		104		70-130	7		30
Vinyl acetate	96		96		70-130	0		30
4-Methyl-2-pentanone	106		112		70-130	6		30
1,2,3-Trichloropropane	108		108		68-130	0		30
2-Hexanone	102		104		70-130	2		30
Bromochloromethane	88		88		70-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1465188-3 WG1465188-4								
2,2-Dichloropropane	87		83		70-130	5		30
1,2-Dibromoethane	90		91		70-130	1		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	100		97		70-130	3		30
Bromobenzene	102		98		70-130	4		30
n-Butylbenzene	109		102		70-130	7		30
sec-Butylbenzene	104		98		70-130	6		30
tert-Butylbenzene	102		95		70-130	7		30
o-Chlorotoluene	103		97		70-130	6		30
p-Chlorotoluene	103		99		70-130	4		30
1,2-Dibromo-3-chloropropane	91		96		68-130	5		30
Hexachlorobutadiene	113		106		67-130	6		30
Isopropylbenzene	102		96		70-130	6		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	110		108		70-130	2		30
Acrylonitrile	94		99		70-130	5		30
n-Propylbenzene	105		99		70-130	6		30
1,2,3-Trichlorobenzene	111		106		70-130	5		30
1,2,4-Trichlorobenzene	113		106		70-130	6		30
1,3,5-Trimethylbenzene	102		97		70-130	5		30
1,2,4-Trimethylbenzene	103		98		70-130	5		30
1,4-Dioxane	82		80		65-136	2		30
p-Diethylbenzene	105		98		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1465188-3 WG1465188-4								
p-Ethyltoluene	104		98		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		97		70-130	7		30
Ethyl ether	95		92		67-130	3		30
trans-1,4-Dichloro-2-butene	123		122		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		89		70-130
Toluene-d8	92		90		70-130
4-Bromofluorobenzene	85		83		70-130
Dibromofluoromethane	80		82		70-130

SEMIVOLATILES

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-01

Date Collected: 02/12/21 15:45

Client ID: SB15_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/16/21 06:10

Analyst: EK

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	250		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	150		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	220	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	2400		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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-01**Date Collected:** 02/12/21 15:45**Client ID:** SB15_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	74	J	ug/kg	110	21.	1
Benzo(a)pyrene	51	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	45	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	96	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	310		ug/kg	110	37.	1
Benzo(ghi)perylene	31	J	ug/kg	150	22.	1
Fluorene	740		ug/kg	190	18.	1
Phenanthrene	1500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	27	J	ug/kg	150	26.	1
Pyrene	520		ug/kg	110	19.	1
Biphenyl	320	J	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	530		ug/kg	190	18.	1
2-Methylnaphthalene	6500		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	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	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-01

Date Collected: 02/12/21 15:45

Client ID: SB15_6-8

Date Received: 02/12/21

Sample Location: QUEENS, 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	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
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	79		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-02

Date Collected: 02/12/21 13:45

Client ID: SB08_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/16/21 09:24

Analyst: EK

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110	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	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	2200		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	140	J	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	78	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-02**Date Collected:** 02/12/21 13:45**Client ID:** SB08_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	1100		ug/kg	110	22.	1
Benzo(a)pyrene	1200		ug/kg	150	47.	1
Benzo(b)fluoranthene	1400		ug/kg	110	32.	1
Benzo(k)fluoranthene	510		ug/kg	110	31.	1
Chrysene	1200		ug/kg	110	20.	1
Acenaphthylene	89	J	ug/kg	150	30.	1
Anthracene	290		ug/kg	110	37.	1
Benzo(ghi)perylene	730		ug/kg	150	22.	1
Fluorene	100	J	ug/kg	190	19.	1
Phenanthrene	1500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	180		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	760		ug/kg	150	27.	1
Pyrene	2000		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	90	J	ug/kg	190	18.	1
2-Methylnaphthalene	96	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	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-02**Date Collected:** 02/12/21 13:45**Client ID:** SB08_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	150	J	ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	62		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-03

Date Collected: 02/12/21 15:15

Client ID: SB10_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/16/21 02:32

Analyst: EK

Percent Solids: 86%

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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-03**Date Collected:** 02/12/21 15:15**Client ID:** SB10_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	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	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	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	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	270	30.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-03**Date Collected:** 02/12/21 15:15**Client ID:** SB10_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	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
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	72		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/16/21 08:11

Analyst: EK

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	270		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	4000		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	95	J	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	2000		ug/kg	120	22.	1
Benzo(a)pyrene	1800		ug/kg	160	48.	1
Benzo(b)fluoranthene	2000		ug/kg	120	33.	1
Benzo(k)fluoranthene	650		ug/kg	120	32.	1
Chrysene	1900		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	790		ug/kg	120	39.	1
Benzo(ghi)perylene	1100		ug/kg	160	23.	1
Fluorene	300		ug/kg	200	19.	1
Phenanthrene	2300		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	260		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	160	28.	1
Pyrene	3800		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	180	J	ug/kg	200	19.	1
2-Methylnaphthalene	43	J	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	72	J	ug/kg	290	31.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	71	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	9	Q	25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	3	Q	10-136
4-Terphenyl-d14	84		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04 RE

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/17/21 12:24

Analytical Date: 02/18/21 04:31

Analyst: SZ

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	210		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	34.	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	3000		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	58	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	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04 RE

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	1400		ug/kg	120	22.	1
Benzo(a)pyrene	1300		ug/kg	160	48.	1
Benzo(b)fluoranthene	1500		ug/kg	120	33.	1
Benzo(k)fluoranthene	420		ug/kg	120	32.	1
Chrysene	1200		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	560		ug/kg	120	38.	1
Benzo(ghi)perylene	710		ug/kg	160	23.	1
Fluorene	220		ug/kg	200	19.	1
Phenanthrene	1700		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	820		ug/kg	160	28.	1
Pyrene	2800		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	120	J	ug/kg	200	19.	1
2-Methylnaphthalene	30	J	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	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	81.	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	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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04 RE

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	87	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	11	Q	25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	6	Q	10-136
4-Terphenyl-d14	48		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05 D2

Client ID: SB09_3-5

Sample Location: QUEENS, NY

Date Collected: 02/12/21 14:30

Date Received: 02/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8270D

Analytical Date: 02/18/21 12:54

Analyst: WR

Percent Solids: 77%

Extraction Method: EPA 3546

Extraction Date: 02/13/21 14:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Fluoranthene	43000		ug/kg	1300	250	10

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05 D

Date Collected: 02/12/21 14:30

Client ID: SB09_3-5

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/18/21 03:22

Analyst: SZ

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	3800		ug/kg	860	110	5
1,2,4-Trichlorobenzene	ND		ug/kg	1100	120	5
Hexachlorobenzene	ND		ug/kg	650	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	970	150	5
2-Chloronaphthalene	ND		ug/kg	1100	110	5
1,2-Dichlorobenzene	ND		ug/kg	1100	190	5
1,3-Dichlorobenzene	ND		ug/kg	1100	180	5
1,4-Dichlorobenzene	ND		ug/kg	1100	190	5
3,3'-Dichlorobenzidine	ND		ug/kg	1100	290	5
2,4-Dinitrotoluene	ND		ug/kg	1100	220	5
2,6-Dinitrotoluene	ND		ug/kg	1100	180	5
Fluoranthene	43000	E	ug/kg	650	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1100	120	5
4-Bromophenyl phenyl ether	ND		ug/kg	1100	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1300	180	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1200	110	5
Hexachlorobutadiene	ND		ug/kg	1100	160	5
Hexachlorocyclopentadiene	ND		ug/kg	3100	980	5
Hexachloroethane	ND		ug/kg	860	170	5
Isophorone	ND		ug/kg	970	140	5
Naphthalene	1200		ug/kg	1100	130	5
Nitrobenzene	ND		ug/kg	970	160	5
NDPA/DPA	ND		ug/kg	860	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1100	170	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1100	370	5
Butyl benzyl phthalate	ND		ug/kg	1100	270	5
Di-n-butylphthalate	ND		ug/kg	1100	200	5
Di-n-octylphthalate	ND		ug/kg	1100	370	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05 D

Date Collected: 02/12/21 14:30

Client ID: SB09_3-5

Date Received: 02/12/21

Sample Location: QUEENS, 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	1100	100	5
Dimethyl phthalate	ND		ug/kg	1100	230	5
Benzo(a)anthracene	23000		ug/kg	650	120	5
Benzo(a)pyrene	19000		ug/kg	860	260	5
Benzo(b)fluoranthene	22000		ug/kg	650	180	5
Benzo(k)fluoranthene	7100		ug/kg	650	170	5
Chrysene	18000		ug/kg	650	110	5
Acenaphthylene	ND		ug/kg	860	170	5
Anthracene	7300		ug/kg	650	210	5
Benzo(ghi)perylene	9600		ug/kg	860	130	5
Fluorene	3200		ug/kg	1100	100	5
Phenanthrene	29000		ug/kg	650	130	5
Dibenzo(a,h)anthracene	2500		ug/kg	650	120	5
Indeno(1,2,3-cd)pyrene	12000		ug/kg	860	150	5
Pyrene	38000		ug/kg	650	110	5
Biphenyl	ND		ug/kg	2500	250	5
4-Chloroaniline	ND		ug/kg	1100	200	5
2-Nitroaniline	ND		ug/kg	1100	210	5
3-Nitroaniline	ND		ug/kg	1100	200	5
4-Nitroaniline	ND		ug/kg	1100	450	5
Dibenzofuran	1300		ug/kg	1100	100	5
2-Methylnaphthalene	530	J	ug/kg	1300	130	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1100	110	5
Acetophenone	ND		ug/kg	1100	130	5
2,4,6-Trichlorophenol	ND		ug/kg	650	200	5
p-Chloro-m-cresol	ND		ug/kg	1100	160	5
2-Chlorophenol	ND		ug/kg	1100	130	5
2,4-Dichlorophenol	ND		ug/kg	970	170	5
2,4-Dimethylphenol	ND		ug/kg	1100	360	5
2-Nitrophenol	ND		ug/kg	2300	410	5
4-Nitrophenol	ND		ug/kg	1500	440	5
2,4-Dinitrophenol	ND		ug/kg	5200	500	5
4,6-Dinitro-o-cresol	ND		ug/kg	2800	520	5
Pentachlorophenol	ND		ug/kg	860	240	5
Phenol	ND		ug/kg	1100	160	5
2-Methylphenol	ND		ug/kg	1100	170	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1600	170	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05 D

Date Collected: 02/12/21 14:30

Client ID: SB09_3-5

Date Received: 02/12/21

Sample Location: QUEENS, 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	1100	210	5
Benzoic Acid	ND		ug/kg	3500	1100	5
Benzyl Alcohol	ND		ug/kg	1100	330	5
Carbazole	2200		ug/kg	1100	100	5
1,4-Dioxane	ND		ug/kg	160	50.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	78		18-120

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-06
Client ID: SB14_6-8
Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:30
Date Received: 02/12/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/16/21 07:23
Analyst: EK
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 02/13/21 14:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	440		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	39.	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	6000		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	340		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-06**Date Collected:** 02/12/21 11:30**Client ID:** SB14_6-8**Date Received:** 02/12/21**Sample Location:** QUEENS, 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	2900		ug/kg	130	25.	1
Benzo(a)pyrene	3000		ug/kg	180	55.	1
Benzo(b)fluoranthene	3100		ug/kg	130	38.	1
Benzo(k)fluoranthene	1100		ug/kg	130	36.	1
Chrysene	2600		ug/kg	130	23.	1
Acenaphthylene	99	J	ug/kg	180	35.	1
Anthracene	1200		ug/kg	130	44.	1
Benzo(ghi)perylene	1900		ug/kg	180	26.	1
Fluorene	420		ug/kg	220	22.	1
Phenanthrene	4300		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	390		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	180	31.	1
Pyrene	5600		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	200	J	ug/kg	220	21.	1
2-Methylnaphthalene	65	J	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	43.	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	92.	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	78	J	ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	850		ug/kg	320	35.	1

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

SAMPLE RESULTS

Lab ID: L2107086-06
Client ID: SB14_6-8
Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:30
Date Received: 02/12/21
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	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	320		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	43		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-07 D

Date Collected: 02/12/21 12:10

Client ID: SB13_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/13/21 14:13

Analytical Date: 02/18/21 02:11

Analyst: SZ

Percent Solids: 59%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	880	J	ug/kg	1100	150	5
1,2,4-Trichlorobenzene	ND		ug/kg	1400	160	5
Hexachlorobenzene	ND		ug/kg	850	160	5
Bis(2-chloroethyl)ether	ND		ug/kg	1300	190	5
2-Chloronaphthalene	ND		ug/kg	1400	140	5
1,2-Dichlorobenzene	ND		ug/kg	1400	250	5
1,3-Dichlorobenzene	ND		ug/kg	1400	240	5
1,4-Dichlorobenzene	ND		ug/kg	1400	250	5
3,3'-Dichlorobenzidine	ND		ug/kg	1400	380	5
2,4-Dinitrotoluene	ND		ug/kg	1400	280	5
2,6-Dinitrotoluene	ND		ug/kg	1400	240	5
Fluoranthene	21000		ug/kg	850	160	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1400	150	5
4-Bromophenyl phenyl ether	ND		ug/kg	1400	220	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1700	240	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1500	140	5
Hexachlorobutadiene	ND		ug/kg	1400	210	5
Hexachlorocyclopentadiene	ND		ug/kg	4000	1300	5
Hexachloroethane	ND		ug/kg	1100	230	5
Isophorone	ND		ug/kg	1300	180	5
Naphthalene	1200	J	ug/kg	1400	170	5
Nitrobenzene	ND		ug/kg	1300	210	5
NDPA/DPA	ND		ug/kg	1100	160	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1400	220	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1400	490	5
Butyl benzyl phthalate	ND		ug/kg	1400	360	5
Di-n-butylphthalate	ND		ug/kg	1400	270	5
Di-n-octylphthalate	ND		ug/kg	1400	480	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-07 D

Date Collected: 02/12/21 12:10

Client ID: SB13_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	1400	130	5
Dimethyl phthalate	ND		ug/kg	1400	300	5
Benzo(a)anthracene	9700		ug/kg	850	160	5
Benzo(a)pyrene	11000		ug/kg	1100	340	5
Benzo(b)fluoranthene	12000		ug/kg	850	240	5
Benzo(k)fluoranthene	3400		ug/kg	850	220	5
Chrysene	8400		ug/kg	850	150	5
Acenaphthylene	ND		ug/kg	1100	220	5
Anthracene	2800		ug/kg	850	280	5
Benzo(ghi)perylene	6200		ug/kg	1100	160	5
Fluorene	940	J	ug/kg	1400	140	5
Phenanthrene	10000		ug/kg	850	170	5
Dibenzo(a,h)anthracene	1200		ug/kg	850	160	5
Indeno(1,2,3-cd)pyrene	6900		ug/kg	1100	200	5
Pyrene	19000		ug/kg	850	140	5
Biphenyl	ND		ug/kg	3200	330	5
4-Chloroaniline	ND		ug/kg	1400	260	5
2-Nitroaniline	ND		ug/kg	1400	270	5
3-Nitroaniline	ND		ug/kg	1400	270	5
4-Nitroaniline	ND		ug/kg	1400	580	5
Dibenzofuran	430	J	ug/kg	1400	130	5
2-Methylnaphthalene	240	J	ug/kg	1700	170	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1400	150	5
Acetophenone	ND		ug/kg	1400	170	5
2,4,6-Trichlorophenol	ND		ug/kg	850	270	5
p-Chloro-m-cresol	ND		ug/kg	1400	210	5
2-Chlorophenol	ND		ug/kg	1400	170	5
2,4-Dichlorophenol	ND		ug/kg	1300	230	5
2,4-Dimethylphenol	ND		ug/kg	1400	460	5
2-Nitrophenol	ND		ug/kg	3000	530	5
4-Nitrophenol	ND		ug/kg	2000	580	5
2,4-Dinitrophenol	ND		ug/kg	6800	660	5
4,6-Dinitro-o-cresol	ND		ug/kg	3700	680	5
Pentachlorophenol	ND		ug/kg	1100	310	5
Phenol	ND		ug/kg	1400	210	5
2-Methylphenol	ND		ug/kg	1400	220	5
3-Methylphenol/4-Methylphenol	1600	J	ug/kg	2000	220	5

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-07 D

Date Collected: 02/12/21 12:10

Client ID: SB13_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	1400	270	5
Benzoic Acid	ND		ug/kg	4600	1400	5
Benzyl Alcohol	ND		ug/kg	1400	430	5
Carbazole	470	J	ug/kg	1400	140	5
1,4-Dioxane	ND		ug/kg	210	65.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	63		18-120

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 02/16/21 05:13
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 02/13/21 07:24

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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

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	16	Q	21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	16		10-120
4-Terphenyl-d14	78		41-149

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 02/15/21 16:34
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 02/13/21 07:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.07	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.93		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	0.52		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.61		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.63		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.27		ug/l	0.10	0.01	1
Chrysene	0.49		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.35		ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.32		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.08	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.38		ug/l	0.10	0.01	1
Pyrene	0.90		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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08

Date Collected: 02/12/21 15:25

Client ID: MW09_021221

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	16	Q	21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	21		10-120
4-Terphenyl-d14	93		41-149

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09
 Client ID: MW03_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:51
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 02/16/21 03:37
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 02/13/21 07:24

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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09
 Client ID: MW03_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:51
 Date Received: 02/12/21
 Field Prep: Refer to COC

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	52		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	89		41-149

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09
 Client ID: MW03_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:51
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 02/15/21 16:53
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 02/13/21 07:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.10	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.15		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.08	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	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	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	0.04	J	ug/l	0.10	0.01	1
Anthracene	0.07	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.12		ug/l	0.10	0.01	1
Phenanthrene	0.22		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	0.14		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.31		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: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09

Date Collected: 02/12/21 11:51

Client ID: MW03_021221

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	66		10-120
Nitrobenzene-d5	120		23-120
2-Fluorobiphenyl	107		15-120
2,4,6-Tribromophenol	143	Q	10-120
4-Terphenyl-d14	129		41-149

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 11:23
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 02/13/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1464415-1					
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	140	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	18.
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	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 11:23
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 02/13/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1464415-1					
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	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
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	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 11:23
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 02/13/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1464415-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
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.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	78		18-120

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 23:15
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 02/13/21 07:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464454-1					
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	1.5	J	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 23:15
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 02/13/21 07:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464454-1					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/15/21 23:15
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 02/13/21 07:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1464454-1					
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	38		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	74		41-149

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/15/21 13:41
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/13/21 07:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08-09 Batch: WG1464459-1					
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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 02/15/21 13:41
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 02/13/21 07:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08-09 Batch: WG1464459-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	89		41-149

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 22:17
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 02/17/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1465666-1					
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	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	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 22:17
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 02/17/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1465666-1					
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	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	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: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 22:17
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 02/17/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1465666-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
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	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	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1464415-2 WG1464415-3								
Acenaphthene	78		86		31-137	10		50
1,2,4-Trichlorobenzene	78		88		38-107	12		50
Hexachlorobenzene	83		88		40-140	6		50
Bis(2-chloroethyl)ether	69		81		40-140	16		50
2-Chloronaphthalene	80		88		40-140	10		50
1,2-Dichlorobenzene	68		80		40-140	16		50
1,3-Dichlorobenzene	68		77		40-140	12		50
1,4-Dichlorobenzene	69		79		28-104	14		50
3,3'-Dichlorobenzidine	53		59		40-140	11		50
2,4-Dinitrotoluene	90		98		40-132	9		50
2,6-Dinitrotoluene	85		91		40-140	7		50
Fluoranthene	79		85		40-140	7		50
4-Chlorophenyl phenyl ether	81		87		40-140	7		50
4-Bromophenyl phenyl ether	82		91		40-140	10		50
Bis(2-chloroisopropyl)ether	77		88		40-140	13		50
Bis(2-chloroethoxy)methane	80		88		40-117	10		50
Hexachlorobutadiene	74		85		40-140	14		50
Hexachlorocyclopentadiene	57		63		40-140	10		50
Hexachloroethane	71		82		40-140	14		50
Isophorone	82		92		40-140	11		50
Naphthalene	72		81		40-140	12		50
Nitrobenzene	78		89		40-140	13		50
NDPA/DPA	81		89		36-157	9		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1464415-2 WG1464415-3								
n-Nitrosodi-n-propylamine	80		90		32-121	12		50
Bis(2-ethylhexyl)phthalate	108		114		40-140	5		50
Butyl benzyl phthalate	94		102		40-140	8		50
Di-n-butylphthalate	97		102		40-140	5		50
Di-n-octylphthalate	97		103		40-140	6		50
Diethyl phthalate	88		94		40-140	7		50
Dimethyl phthalate	88		94		40-140	7		50
Benzo(a)anthracene	81		89		40-140	9		50
Benzo(a)pyrene	84		94		40-140	11		50
Benzo(b)fluoranthene	84		93		40-140	10		50
Benzo(k)fluoranthene	82		90		40-140	9		50
Chrysene	79		88		40-140	11		50
Acenaphthylene	80		87		40-140	8		50
Anthracene	80		87		40-140	8		50
Benzo(ghi)perylene	81		90		40-140	11		50
Fluorene	77		85		40-140	10		50
Phenanthrene	79		84		40-140	6		50
Dibenzo(a,h)anthracene	83		91		40-140	9		50
Indeno(1,2,3-cd)pyrene	84		92		40-140	9		50
Pyrene	77		84		35-142	9		50
Biphenyl	74		82		37-127	10		50
4-Chloroaniline	61		54		40-140	12		50
2-Nitroaniline	97		102		47-134	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1464415-2 WG1464415-3								
3-Nitroaniline	52		56		26-129	7		50
4-Nitroaniline	79		86		41-125	8		50
Dibenzofuran	78		86		40-140	10		50
2-Methylnaphthalene	79		86		40-140	8		50
1,2,4,5-Tetrachlorobenzene	74		80		40-117	8		50
Acetophenone	75		86		14-144	14		50
2,4,6-Trichlorophenol	88		94		30-130	7		50
p-Chloro-m-cresol	86		93		26-103	8		50
2-Chlorophenol	75		85		25-102	13		50
2,4-Dichlorophenol	89		98		30-130	10		50
2,4-Dimethylphenol	84		92		30-130	9		50
2-Nitrophenol	89		101		30-130	13		50
4-Nitrophenol	85		94		11-114	10		50
2,4-Dinitrophenol	76		81		4-130	6		50
4,6-Dinitro-o-cresol	77		86		10-130	11		50
Pentachlorophenol	79		86		17-109	8		50
Phenol	71		79		26-90	11		50
2-Methylphenol	79		89		30-130.	12		50
3-Methylphenol/4-Methylphenol	81		91		30-130	12		50
2,4,5-Trichlorophenol	88		96		30-130	9		50
Benzoic Acid	70		72		10-110	3		50
Benzyl Alcohol	80		89		40-140	11		50
Carbazole	79		86		54-128	8		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1464415-2 WG1464415-3								
1,4-Dioxane	43		48		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		75		25-120
Phenol-d6	72		80		10-120
Nitrobenzene-d5	72		80		23-120
2-Fluorobiphenyl	76		80		30-120
2,4,6-Tribromophenol	82		90		10-136
4-Terphenyl-d14	73		79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464454-2 WG1464454-3								
Acenaphthene	67		68		37-111	1		30
1,2,4-Trichlorobenzene	60		64		39-98	6		30
Hexachlorobenzene	69		68		40-140	1		30
Bis(2-chloroethyl)ether	66		70		40-140	6		30
2-Chloronaphthalene	69		70		40-140	1		30
1,2-Dichlorobenzene	54		62		40-140	14		30
1,3-Dichlorobenzene	53		59		40-140	11		30
1,4-Dichlorobenzene	56		60		36-97	7		30
3,3'-Dichlorobenzidine	52		48		40-140	8		30
2,4-Dinitrotoluene	83		80		48-143	4		30
2,6-Dinitrotoluene	86		86		40-140	0		30
Fluoranthene	80		78		40-140	3		30
4-Chlorophenyl phenyl ether	73		72		40-140	1		30
4-Bromophenyl phenyl ether	71		71		40-140	0		30
Bis(2-chloroisopropyl)ether	67		72		40-140	7		30
Bis(2-chloroethoxy)methane	75		74		40-140	1		30
Hexachlorobutadiene	57		65		40-140	13		30
Hexachlorocyclopentadiene	60		66		40-140	10		30
Hexachloroethane	54		60		40-140	11		30
Isophorone	74		74		40-140	0		30
Naphthalene	62		66		40-140	6		30
Nitrobenzene	72		75		40-140	4		30
NDPA/DPA	71		67		40-140	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464454-2 WG1464454-3								
n-Nitrosodi-n-propylamine	76		75		29-132	1		30
Bis(2-ethylhexyl)phthalate	106		112		40-140	6		30
Butyl benzyl phthalate	96		94		40-140	2		30
Di-n-butylphthalate	90		88		40-140	2		30
Di-n-octylphthalate	111		106		40-140	5		30
Diethyl phthalate	77		77		40-140	0		30
Dimethyl phthalate	83		82		40-140	1		30
Benzo(a)anthracene	90		86		40-140	5		30
Benzo(a)pyrene	94		92		40-140	2		30
Benzo(b)fluoranthene	92		88		40-140	4		30
Benzo(k)fluoranthene	86		87		40-140	1		30
Chrysene	82		81		40-140	1		30
Acenaphthylene	75		78		45-123	4		30
Anthracene	78		77		40-140	1		30
Benzo(ghi)perylene	87		84		40-140	4		30
Fluorene	71		71		40-140	0		30
Phenanthrene	77		75		40-140	3		30
Dibenzo(a,h)anthracene	89		85		40-140	5		30
Indeno(1,2,3-cd)pyrene	93		91		40-140	2		30
Pyrene	78		76		26-127	3		30
Biphenyl	73		75		40-140	3		30
4-Chloroaniline	52		44		40-140	17		30
2-Nitroaniline	88		88		52-143	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464454-2 WG1464454-3								
3-Nitroaniline	63		56		25-145	12		30
4-Nitroaniline	69		73		51-143	6		30
Dibenzofuran	68		68		40-140	0		30
2-Methylnaphthalene	68		72		40-140	6		30
1,2,4,5-Tetrachlorobenzene	67		73		2-134	9		30
Acetophenone	65		70		39-129	7		30
2,4,6-Trichlorophenol	84		84		30-130	0		30
p-Chloro-m-cresol	82		84		23-97	2		30
2-Chlorophenol	67		68		27-123	1		30
2,4-Dichlorophenol	79		77		30-130	3		30
2,4-Dimethylphenol	28	Q	25	Q	30-130	11		30
2-Nitrophenol	95		98		30-130	3		30
4-Nitrophenol	61		63		10-80	3		30
2,4-Dinitrophenol	98		103		20-130	5		30
4,6-Dinitro-o-cresol	94		96		20-164	2		30
Pentachlorophenol	82		82		9-103	0		30
Phenol	51		51		12-110	0		30
2-Methylphenol	58		58		30-130	0		30
3-Methylphenol/4-Methylphenol	67		68		30-130	1		30
2,4,5-Trichlorophenol	87		88		30-130	1		30
Benzoic Acid	66		83		10-164	23		30
Benzyl Alcohol	67		67		26-116	0		30
Carbazole	80		77		55-144	4		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1464454-2 WG1464454-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		56		21-120
Phenol-d6	49		50		10-120
Nitrobenzene-d5	77		76		23-120
2-Fluorobiphenyl	72		71		15-120
2,4,6-Tribromophenol	71		71		10-120
4-Terphenyl-d14	79		77		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08-09 Batch: WG1464459-2 WG1464459-3								
Acenaphthene	77		71		40-140	8		40
2-Chloronaphthalene	88		81		40-140	8		40
Fluoranthene	103		96		40-140	7		40
Hexachlorobutadiene	81		77		40-140	5		40
Naphthalene	79		72		40-140	9		40
Benzo(a)anthracene	92		87		40-140	6		40
Benzo(a)pyrene	116		110		40-140	5		40
Benzo(b)fluoranthene	94		86		40-140	9		40
Benzo(k)fluoranthene	113		110		40-140	3		40
Chrysene	103		99		40-140	4		40
Acenaphthylene	103		95		40-140	8		40
Anthracene	97		92		40-140	5		40
Benzo(ghi)perylene	101		94		40-140	7		40
Fluorene	88		81		40-140	8		40
Phenanthrene	86		79		40-140	8		40
Dibenzo(a,h)anthracene	107		102		40-140	5		40
Indeno(1,2,3-cd)pyrene	102		90		40-140	13		40
Pyrene	105		98		40-140	7		40
2-Methylnaphthalene	85		79		40-140	7		40
Pentachlorophenol	119		106		40-140	12		40
Hexachlorobenzene	81		75		40-140	8		40
Hexachloroethane	82		75		40-140	9		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08-09 Batch: WG1464459-2 WG1464459-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		50		21-120
Phenol-d6	57		52		10-120
Nitrobenzene-d5	118		111		23-120
2-Fluorobiphenyl	92		86		15-120
2,4,6-Tribromophenol	117		90		10-120
4-Terphenyl-d14	105		99		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1465666-2 WG1465666-3								
Acenaphthene	74		74		31-137	0		50
1,2,4-Trichlorobenzene	75		89		38-107	17		50
Hexachlorobenzene	90		82		40-140	9		50
Bis(2-chloroethyl)ether	64		77		40-140	18		50
2-Chloronaphthalene	79		87		40-140	10		50
1,2-Dichlorobenzene	64		78		40-140	20		50
1,3-Dichlorobenzene	67		78		40-140	15		50
1,4-Dichlorobenzene	65		72		28-104	10		50
3,3'-Dichlorobenzidine	65		66		40-140	2		50
2,4-Dinitrotoluene	100		93		40-132	7		50
2,6-Dinitrotoluene	89		92		40-140	3		50
Fluoranthene	78		81		40-140	4		50
4-Chlorophenyl phenyl ether	89		84		40-140	6		50
4-Bromophenyl phenyl ether	97		87		40-140	11		50
Bis(2-chloroisopropyl)ether	65		79		40-140	19		50
Bis(2-chloroethoxy)methane	84		93		40-117	10		50
Hexachlorobutadiene	71		73		40-140	3		50
Hexachlorocyclopentadiene	84		85		40-140	1		50
Hexachloroethane	56		68		40-140	19		50
Isophorone	75		79		40-140	5		50
Naphthalene	74		74		40-140	0		50
Nitrobenzene	72		87		40-140	19		50
NDPA/DPA	93		84		36-157	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1465666-2 WG1465666-3								
n-Nitrosodi-n-propylamine	78		94		32-121	19		50
Bis(2-ethylhexyl)phthalate	89		89		40-140	0		50
Butyl benzyl phthalate	87		89		40-140	2		50
Di-n-butylphthalate	82		89		40-140	8		50
Di-n-octylphthalate	82		84		40-140	2		50
Diethyl phthalate	88		80		40-140	10		50
Dimethyl phthalate	84		87		40-140	4		50
Benzo(a)anthracene	84		83		40-140	1		50
Benzo(a)pyrene	86		94		40-140	9		50
Benzo(b)fluoranthene	88		87		40-140	1		50
Benzo(k)fluoranthene	68		70		40-140	3		50
Chrysene	74		74		40-140	0		50
Acenaphthylene	81		84		40-140	4		50
Anthracene	77		76		40-140	1		50
Benzo(ghi)perylene	77		79		40-140	3		50
Fluorene	90		85		40-140	6		50
Phenanthrene	80		79		40-140	1		50
Dibenzo(a,h)anthracene	78		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	87		88		40-140	1		50
Pyrene	81		81		35-142	0		50
Biphenyl	87		96		37-127	10		50
4-Chloroaniline	54		41		40-140	27		50
2-Nitroaniline	94		99		47-134	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1465666-2 WG1465666-3								
3-Nitroaniline	66		66		26-129	0		50
4-Nitroaniline	90		84		41-125	7		50
Dibenzofuran	89		83		40-140	7		50
2-Methylnaphthalene	89		90		40-140	1		50
1,2,4,5-Tetrachlorobenzene	96		97		40-117	1		50
Acetophenone	86		102		14-144	17		50
2,4,6-Trichlorophenol	110		105		30-130	5		50
p-Chloro-m-cresol	102		90		26-103	13		50
2-Chlorophenol	76		91		25-102	18		50
2,4-Dichlorophenol	94		109		30-130	15		50
2,4-Dimethylphenol	86		92		30-130	7		50
2-Nitrophenol	88		97		30-130	10		50
4-Nitrophenol	104		96		11-114	8		50
2,4-Dinitrophenol	90		84		4-130	7		50
4,6-Dinitro-o-cresol	91		84		10-130	8		50
Pentachlorophenol	104		92		17-109	12		50
Phenol	79		91	Q	26-90	14		50
2-Methylphenol	79		92		30-130	15		50
3-Methylphenol/4-Methylphenol	83		102		30-130	21		50
2,4,5-Trichlorophenol	93		92		30-130	1		50
Benzoic Acid	82		78		10-110	5		50
Benzyl Alcohol	87		98		40-140	12		50
Carbazole	81		82		54-128	1		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1465666-2 WG1465666-3								
1,4-Dioxane	50		58		40-140	15		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		89		25-120
Phenol-d6	79		91		10-120
Nitrobenzene-d5	69		85		23-120
2-Fluorobiphenyl	79		82		30-120
2,4,6-Tribromophenol	96		86		10-136
4-Terphenyl-d14	78		78		18-120

METALS

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-01

Date Collected: 02/12/21 15:45

Client ID: SB15_6-8

Date Received: 02/12/21

Sample Location: QUEENS, 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	9870		mg/kg	9.14	2.47	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.57	0.347	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Arsenic, Total	8.72		mg/kg	0.914	0.190	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Barium, Total	13.3		mg/kg	0.914	0.159	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Beryllium, Total	0.119	J	mg/kg	0.457	0.030	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Cadmium, Total	0.457	J	mg/kg	0.914	0.090	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Calcium, Total	468		mg/kg	9.14	3.20	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Chromium, Total	23.3		mg/kg	0.914	0.088	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Cobalt, Total	8.82		mg/kg	1.83	0.152	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Copper, Total	10.7		mg/kg	0.914	0.236	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Iron, Total	18500		mg/kg	4.57	0.826	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Lead, Total	6.24		mg/kg	4.57	0.245	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Magnesium, Total	2040		mg/kg	9.14	1.41	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Manganese, Total	70.0		mg/kg	0.914	0.145	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.074	0.048	1	02/15/21 22:44	02/16/21 22:55	EPA 7471B	1,7471B	NB
Nickel, Total	14.2		mg/kg	2.29	0.221	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Potassium, Total	605		mg/kg	229	13.2	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Selenium, Total	0.585	J	mg/kg	1.83	0.236	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.914	0.259	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Sodium, Total	106	J	mg/kg	183	2.88	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.83	0.288	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Vanadium, Total	31.2		mg/kg	0.914	0.186	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD
Zinc, Total	22.8		mg/kg	4.57	0.268	2	02/15/21 22:02	02/16/21 10:18	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-02

Date Collected: 02/12/21 13:45

Client ID: SB08_6-8

Date Received: 02/12/21

Sample Location: QUEENS, 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	2780		mg/kg	8.76	2.36	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Antimony, Total	15.9		mg/kg	4.38	0.333	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Arsenic, Total	46.8		mg/kg	0.876	0.182	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Barium, Total	186		mg/kg	0.876	0.152	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Beryllium, Total	0.149	J	mg/kg	0.438	0.029	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Cadmium, Total	8.40		mg/kg	0.876	0.086	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Calcium, Total	10400		mg/kg	8.76	3.06	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Chromium, Total	85.5		mg/kg	0.876	0.084	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Cobalt, Total	23.4		mg/kg	1.75	0.145	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Copper, Total	393		mg/kg	0.876	0.226	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Iron, Total	187000		mg/kg	4.38	0.791	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Lead, Total	317		mg/kg	4.38	0.235	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Magnesium, Total	966		mg/kg	8.76	1.35	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Manganese, Total	1660		mg/kg	0.876	0.139	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Mercury, Total	0.664		mg/kg	0.077	0.050	1	02/15/21 22:44	02/16/21 22:59	EPA 7471B	1,7471B	NB
Nickel, Total	104		mg/kg	2.19	0.212	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Potassium, Total	466		mg/kg	219	12.6	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Selenium, Total	5.61		mg/kg	1.75	0.226	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Silver, Total	2.10		mg/kg	0.876	0.248	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Sodium, Total	350		mg/kg	175	2.76	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Thallium, Total	1.96		mg/kg	1.75	0.276	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Vanadium, Total	37.4		mg/kg	0.876	0.178	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD
Zinc, Total	862		mg/kg	4.38	0.257	2	02/15/21 22:02	02/16/21 10:23	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-03

Date Collected: 02/12/21 15:15

Client ID: SB10_6-8

Date Received: 02/12/21

Sample Location: QUEENS, 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	6300		mg/kg	8.96	2.42	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.48	0.340	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Arsenic, Total	2.33		mg/kg	0.896	0.186	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Barium, Total	96.7		mg/kg	0.896	0.156	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Beryllium, Total	0.251	J	mg/kg	0.448	0.030	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Cadmium, Total	0.340	J	mg/kg	0.896	0.088	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Calcium, Total	1120		mg/kg	8.96	3.14	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Chromium, Total	17.2		mg/kg	0.896	0.086	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Cobalt, Total	4.08		mg/kg	1.79	0.149	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Copper, Total	6.99		mg/kg	0.896	0.231	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Iron, Total	13700		mg/kg	4.48	0.809	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Lead, Total	6.82		mg/kg	4.48	0.240	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Magnesium, Total	2090		mg/kg	8.96	1.38	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Manganese, Total	57.9		mg/kg	0.896	0.142	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.074	0.048	1	02/15/21 22:44	02/16/21 23:08	EPA 7471B	1,7471B	NB
Nickel, Total	10.6		mg/kg	2.24	0.217	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Potassium, Total	436		mg/kg	224	12.9	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Selenium, Total	0.582	J	mg/kg	1.79	0.231	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.896	0.254	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Sodium, Total	103	J	mg/kg	179	2.82	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.79	0.282	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Vanadium, Total	22.2		mg/kg	0.896	0.182	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD
Zinc, Total	24.0		mg/kg	4.48	0.262	2	02/15/21 22:02	02/16/21 10:28	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-04

Date Collected: 02/12/21 10:40

Client ID: SB07_5-7

Date Received: 02/12/21

Sample Location: QUEENS, 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	3020		mg/kg	9.45	2.55	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Antimony, Total	0.387	J	mg/kg	4.72	0.359	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Arsenic, Total	7.62		mg/kg	0.945	0.196	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Barium, Total	43.8		mg/kg	0.945	0.164	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.472	0.031	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Cadmium, Total	0.397	J	mg/kg	0.945	0.093	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Calcium, Total	73000		mg/kg	94.5	33.1	20	02/15/21 22:02	02/16/21 11:57	EPA 3050B	1,6010D	GD
Chromium, Total	11.2		mg/kg	0.945	0.091	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Cobalt, Total	4.82		mg/kg	1.89	0.157	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Copper, Total	44.3		mg/kg	0.945	0.244	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Iron, Total	10600		mg/kg	4.72	0.853	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Lead, Total	49.5		mg/kg	4.72	0.253	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Magnesium, Total	23900		mg/kg	9.45	1.46	2	02/15/21 22:02	02/16/21 16:14	EPA 3050B	1,6010D	SV
Manganese, Total	166		mg/kg	0.945	0.150	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Mercury, Total	0.136		mg/kg	0.077	0.050	1	02/15/21 22:44	02/16/21 23:12	EPA 7471B	1,7471B	NB
Nickel, Total	8.31		mg/kg	2.36	0.229	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Potassium, Total	473		mg/kg	236	13.6	2	02/15/21 22:02	02/16/21 16:14	EPA 3050B	1,6010D	SV
Selenium, Total	1.12	J	mg/kg	1.89	0.244	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.945	0.267	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Sodium, Total	371		mg/kg	189	2.98	2	02/15/21 22:02	02/16/21 16:14	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.89	0.298	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Vanadium, Total	13.0		mg/kg	0.945	0.192	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD
Zinc, Total	35.1		mg/kg	4.72	0.277	2	02/15/21 22:02	02/16/21 11:17	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-05

Date Collected: 02/12/21 14:30

Client ID: SB09_3-5

Date Received: 02/12/21

Sample Location: QUEENS, 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	3550		mg/kg	10.2	2.76	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Antimony, Total	2.42	J	mg/kg	5.12	0.389	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Arsenic, Total	8.32		mg/kg	1.02	0.213	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Barium, Total	366		mg/kg	1.02	0.178	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Beryllium, Total	0.379	J	mg/kg	0.512	0.034	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Cadmium, Total	0.542	J	mg/kg	1.02	0.100	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Calcium, Total	17000		mg/kg	10.2	3.58	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Chromium, Total	12.8		mg/kg	1.02	0.098	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Cobalt, Total	4.15		mg/kg	2.05	0.170	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Copper, Total	52.8		mg/kg	1.02	0.264	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Iron, Total	7380		mg/kg	5.12	0.924	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Lead, Total	4870		mg/kg	5.12	0.274	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Magnesium, Total	1030		mg/kg	10.2	1.58	2	02/15/21 22:02	02/16/21 16:19	EPA 3050B	1,6010D	SV
Manganese, Total	128		mg/kg	1.02	0.163	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Mercury, Total	0.814		mg/kg	0.089	0.058	1	02/15/21 22:44	02/16/21 23:15	EPA 7471B	1,7471B	NB
Nickel, Total	9.58		mg/kg	2.56	0.248	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Potassium, Total	432		mg/kg	256	14.7	2	02/15/21 22:02	02/16/21 16:19	EPA 3050B	1,6010D	SV
Selenium, Total	2.16		mg/kg	2.05	0.264	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Silver, Total	0.491	J	mg/kg	1.02	0.290	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Sodium, Total	407		mg/kg	205	3.22	2	02/15/21 22:02	02/16/21 16:19	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.05	0.322	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Vanadium, Total	20.8		mg/kg	1.02	0.208	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD
Zinc, Total	352		mg/kg	5.12	0.300	2	02/15/21 22:02	02/16/21 11:22	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-06

Date Collected: 02/12/21 11:30

Client ID: SB14_6-8

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4330		mg/kg	10.3	2.77	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Antimony, Total	4.26	J	mg/kg	5.14	0.390	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Arsenic, Total	12.6		mg/kg	1.03	0.214	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Barium, Total	101		mg/kg	1.03	0.179	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Beryllium, Total	0.288	J	mg/kg	0.514	0.034	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Cadmium, Total	1.68		mg/kg	1.03	0.101	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Calcium, Total	6610		mg/kg	10.3	3.60	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Chromium, Total	12.6		mg/kg	1.03	0.099	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Cobalt, Total	5.10		mg/kg	2.05	0.170	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Copper, Total	215		mg/kg	1.03	0.265	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Iron, Total	23100		mg/kg	5.14	0.928	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Lead, Total	924		mg/kg	5.14	0.275	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Magnesium, Total	1390		mg/kg	10.3	1.58	2	02/15/21 22:02	02/16/21 16:24	EPA 3050B	1,6010D	SV
Manganese, Total	133		mg/kg	1.03	0.163	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Mercury, Total	2.91		mg/kg	0.092	0.060	1	02/15/21 22:44	02/16/21 23:18	EPA 7471B	1,7471B	NB
Nickel, Total	15.0		mg/kg	2.57	0.249	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Potassium, Total	594		mg/kg	257	14.8	2	02/15/21 22:02	02/16/21 16:24	EPA 3050B	1,6010D	SV
Selenium, Total	4.91		mg/kg	2.05	0.265	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Silver, Total	0.606	J	mg/kg	1.03	0.291	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Sodium, Total	549		mg/kg	205	3.24	2	02/15/21 22:02	02/16/21 16:24	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.05	0.324	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Vanadium, Total	23.5		mg/kg	1.03	0.208	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD
Zinc, Total	594		mg/kg	5.14	0.301	2	02/15/21 22:02	02/16/21 11:27	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-07

Date Collected: 02/12/21 12:10

Client ID: SB13_5-7

Date Received: 02/12/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 59%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4810		mg/kg	13.5	3.64	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Antimony, Total	6.53	J	mg/kg	6.75	0.513	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Arsenic, Total	23.3		mg/kg	1.35	0.281	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Barium, Total	291		mg/kg	1.35	0.235	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Beryllium, Total	0.351	J	mg/kg	0.675	0.045	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Cadmium, Total	2.35		mg/kg	1.35	0.132	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Calcium, Total	8560		mg/kg	13.5	4.72	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Chromium, Total	20.3		mg/kg	1.35	0.130	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Cobalt, Total	15.8		mg/kg	2.70	0.224	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Copper, Total	125		mg/kg	1.35	0.348	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Iron, Total	75600		mg/kg	67.5	12.2	20	02/15/21 22:02	02/17/21 20:38	EPA 3050B	1,6010D	BV
Lead, Total	1220		mg/kg	6.75	0.362	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Magnesium, Total	1040		mg/kg	13.5	2.08	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Manganese, Total	663		mg/kg	1.35	0.215	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Mercury, Total	3.56		mg/kg	0.119	0.078	1	02/15/21 22:44	02/16/21 23:22	EPA 7471B	1,7471B	NB
Nickel, Total	28.9		mg/kg	3.37	0.327	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Potassium, Total	820		mg/kg	337	19.4	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Selenium, Total	5.33		mg/kg	2.70	0.348	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Silver, Total	6.84		mg/kg	1.35	0.382	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Sodium, Total	657		mg/kg	270	4.25	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.70	0.425	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Vanadium, Total	31.3		mg/kg	1.35	0.274	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD
Zinc, Total	826		mg/kg	6.75	0.395	2	02/15/21 22:02	02/16/21 09:29	EPA 3050B	1,6010D	GD



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

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	0.989		mg/l	0.0100	0.00327	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00123		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Barium, Total	0.1397		mg/l	0.00050	0.00017	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Calcium, Total	117.		mg/l	0.100	0.0394	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Chromium, Total	0.00457		mg/l	0.00100	0.00017	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00094		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Copper, Total	0.01036		mg/l	0.00100	0.00038	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Iron, Total	7.84		mg/l	0.0500	0.0191	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Lead, Total	0.04362		mg/l	0.00100	0.00034	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Magnesium, Total	40.8		mg/l	0.0700	0.0242	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Manganese, Total	0.2342		mg/l	0.00100	0.00044	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/15/21 14:52	02/17/21 16:28	EPA 7470A	1,7470A	EW
Nickel, Total	0.00210		mg/l	0.00200	0.00055	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Potassium, Total	8.84		mg/l	0.100	0.0309	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Sodium, Total	68.3		mg/l	0.100	0.0293	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00420	J	mg/l	0.00500	0.00157	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Zinc, Total	0.01289		mg/l	0.01000	0.00341	1	02/15/21 14:47	02/16/21 09:54	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00037	J	mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1113		mg/l	0.00050	0.00017	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-08
 Client ID: MW09_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 15:25
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Calcium, Dissolved	110.		mg/l	0.100	0.0394	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Iron, Dissolved	5.55		mg/l	0.0500	0.0191	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	34.7		mg/l	0.0700	0.0242	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.2045		mg/l	0.00100	0.00044	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/15/21 19:41	02/17/21 15:05	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Potassium, Dissolved	8.50		mg/l	0.100	0.0309	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Sodium, Dissolved	75.6		mg/l	0.100	0.0293	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00015	J	mg/l	0.00100	0.00014	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/15/21 19:08	02/16/21 09:05	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09
 Client ID: MW03_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:51
 Date Received: 02/12/21
 Field Prep: Refer to COC

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	0.181		mg/l	0.0100	0.00327	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Antimony, Total	0.00641		mg/l	0.00400	0.00042	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Arsenic, Total	0.01344		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Barium, Total	0.1676		mg/l	0.00050	0.00017	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Calcium, Total	104.		mg/l	0.100	0.0394	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Chromium, Total	0.00071	J	mg/l	0.00100	0.00017	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00100		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Copper, Total	0.00716		mg/l	0.00100	0.00038	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Iron, Total	25.7		mg/l	0.0500	0.0191	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Lead, Total	0.05575		mg/l	0.00100	0.00034	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Magnesium, Total	22.6		mg/l	0.0700	0.0242	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Manganese, Total	0.4597		mg/l	0.00100	0.00044	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/15/21 14:52	02/17/21 16:31	EPA 7470A	1,7470A	EW
Nickel, Total	0.00679		mg/l	0.00200	0.00055	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Potassium, Total	21.5		mg/l	0.100	0.0309	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Sodium, Total	149.		mg/l	0.100	0.0293	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00253	J	mg/l	0.00500	0.00157	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Zinc, Total	0.05360		mg/l	0.01000	0.00341	1	02/15/21 14:47	02/16/21 09:59	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0200		mg/l	0.0100	0.00327	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00645		mg/l	0.00400	0.00042	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.01202		mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1587		mg/l	0.00050	0.00017	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**SAMPLE RESULTS**

Lab ID: L2107086-09
 Client ID: MW03_021221
 Sample Location: QUEENS, NY

Date Collected: 02/12/21 11:51
 Date Received: 02/12/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00007	J	mg/l	0.00020	0.00005	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Calcium, Dissolved	97.5		mg/l	0.100	0.0394	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00020	J	mg/l	0.00100	0.00017	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00086		mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00041	J	mg/l	0.00100	0.00038	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Iron, Dissolved	24.1		mg/l	0.0500	0.0191	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Lead, Dissolved	0.02412		mg/l	0.00100	0.00034	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	21.9		mg/l	0.0700	0.0242	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.4282		mg/l	0.00100	0.00044	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/15/21 19:41	02/17/21 15:09	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00613		mg/l	0.00200	0.00055	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Potassium, Dissolved	21.2		mg/l	0.100	0.0309	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Sodium, Dissolved	170.		mg/l	0.100	0.0293	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00164	J	mg/l	0.00500	0.00157	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.03926		mg/l	0.01000	0.00341	1	02/15/21 19:08	02/16/21 09:10	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

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): 08-09 Batch: WG1464859-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Barium, Total	0.00018	J	mg/l	0.00050	0.00017	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	02/15/21 14:47	02/16/21 08:17	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/15/21 14:47	02/16/21 08:17	1,6020B	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): 08-09 Batch: WG1464861-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/15/21 14:52	02/17/21 15:52	1,7470A	EW



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1464903-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Calcium, Total	1.80	J	mg/kg	4.00	1.40	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Iron, Total	ND		mg/kg	2.00	0.361	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/15/21 22:02	02/16/21 09:19	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

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): 01-07 Batch: WG1464904-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	02/15/21 22:44	02/16/21 21:54	1,7471B	NB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1464963-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Thallium, Dissolved	0.00026	J	mg/l	0.00100	0.00014	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/15/21 19:08	02/16/21 08:31	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Method Blank Analysis Batch Quality Control

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): 08-09 Batch: WG1464964-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00009	1	02/15/21 19:41	02/17/21 14:39	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Lab Number: L2107086

Project Number: 170663101

Report Date: 02/18/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464859-2								
Aluminum, Total	96		-		80-120	-		
Antimony, Total	82		-		80-120	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	98		-		80-120	-		
Beryllium, Total	108		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	100		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	102		-		80-120	-		
Magnesium, Total	99		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	97		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	105		-		80-120	-		
Silver, Total	99		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Thallium, Total	103		-		80-120	-		
Vanadium, Total	97		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464859-2					
Zinc, Total	105	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464861-2					
Mercury, Total	106	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1464903-2 SRM Lot Number: D109-540					
Aluminum, Total	66	-	50-150	-	
Antimony, Total	136	-	19-250	-	
Arsenic, Total	108	-	70-130	-	
Barium, Total	98	-	75-125	-	
Beryllium, Total	106	-	75-125	-	
Cadmium, Total	109	-	75-125	-	
Calcium, Total	103	-	73-128	-	
Chromium, Total	103	-	70-130	-	
Cobalt, Total	109	-	75-125	-	
Copper, Total	100	-	75-125	-	
Iron, Total	94	-	35-165	-	
Lead, Total	105	-	72-128	-	
Magnesium, Total	88	-	62-138	-	
Manganese, Total	99	-	74-126	-	
Nickel, Total	109	-	70-130	-	
Potassium, Total	80	-	59-141	-	
Selenium, Total	105	-	68-132	-	
Silver, Total	104	-	68-131	-	
Sodium, Total	91	-	35-165	-	
Thallium, Total	106	-	68-131	-	
Vanadium, Total	99	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1464903-2 SRM Lot Number: D109-540					
Zinc, Total	102	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1464904-2 SRM Lot Number: D109-540					
Mercury, Total	103	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464963-2					
Aluminum, Dissolved	98	-	80-120	-	
Antimony, Dissolved	89	-	80-120	-	
Arsenic, Dissolved	103	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	106	-	80-120	-	
Calcium, Dissolved	93	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Iron, Dissolved	105	-	80-120	-	
Lead, Dissolved	102	-	80-120	-	
Magnesium, Dissolved	85	-	80-120	-	
Manganese, Dissolved	94	-	80-120	-	
Nickel, Dissolved	95	-	80-120	-	
Potassium, Dissolved	86	-	80-120	-	
Selenium, Dissolved	102	-	80-120	-	
Silver, Dissolved	101	-	80-120	-	
Sodium, Dissolved	86	-	80-120	-	
Thallium, Dissolved	105	-	80-120	-	
Vanadium, Dissolved	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464963-2					
Zinc, Dissolved	105	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1464964-2					
Mercury, Dissolved	108	-	80-120	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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): 08-09			QC Batch ID: WG1464859-3			QC Sample: L2106919-02			Client ID: MS Sample			
Aluminum, Total	4.78	2	7.04	113		-	-		75-125	-		20
Antimony, Total	0.00098J	0.5	0.4399	88		-	-		75-125	-		20
Arsenic, Total	0.01237	0.12	0.1346	102		-	-		75-125	-		20
Barium, Total	0.06557	2	2.016	98		-	-		75-125	-		20
Beryllium, Total	0.00031J	0.05	0.05013	100		-	-		75-125	-		20
Cadmium, Total	0.00022	0.051	0.05335	104		-	-		75-125	-		20
Calcium, Total	70.2	10	76.9	67	Q	-	-		75-125	-		20
Chromium, Total	0.01330	0.2	0.2093	98		-	-		75-125	-		20
Cobalt, Total	0.00395	0.5	0.4962	98		-	-		75-125	-		20
Copper, Total	0.1364	0.25	0.3906	102		-	-		75-125	-		20
Iron, Total	8.28	1	8.68	40	Q	-	-		75-125	-		20
Lead, Total	0.04345	0.51	0.5659	102		-	-		75-125	-		20
Magnesium, Total	3.28	10	13.4	101		-	-		75-125	-		20
Manganese, Total	0.1698	0.5	0.6523	96		-	-		75-125	-		20
Nickel, Total	0.01016	0.5	0.4882	96		-	-		75-125	-		20
Potassium, Total	15.9	10	25.1	92		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.127	106		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04953	99		-	-		75-125	-		20
Sodium, Total	20.5	10	30.1	96		-	-		75-125	-		20
Thallium, Total	0.00072J	0.12	0.1255	104		-	-		75-125	-		20
Vanadium, Total	0.01456	0.5	0.5021	98		-	-		75-125	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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): 08-09			QC Batch ID: WG1464859-3		QC Sample: L2106919-02		Client ID: MS Sample		
Zinc, Total	0.1711	0.5	0.7110	108	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 08-09			QC Batch ID: WG1464861-3		QC Sample: L2106919-04		Client ID: MS Sample		
Mercury, Total	ND	0.005	0.00567	113	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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): 01-07 QC Batch ID: WG1464903-3 QC Sample: L2107104-11 Client ID: MS Sample									
Aluminum, Total	6000	186	7210	652	Q	-	75-125	-	20
Antimony, Total	ND	46.4	40.6	87		-	75-125	-	20
Arsenic, Total	3.40	11.1	15.3	107		-	75-125	-	20
Barium, Total	81.2	186	239	85		-	75-125	-	20
Beryllium, Total	ND	4.64	4.32	93		-	75-125	-	20
Cadmium, Total	0.548J	4.73	5.21	110		-	75-125	-	20
Calcium, Total	55700	928	73400	1910	Q	-	75-125	-	20
Chromium, Total	13.7	18.6	33.5	107		-	75-125	-	20
Cobalt, Total	5.77	46.4	47.8	90		-	75-125	-	20
Copper, Total	23.2	23.2	51.4	122		-	75-125	-	20
Iron, Total	11000	92.8	11600	646	Q	-	75-125	-	20
Lead, Total	112	47.3	200	186	Q	-	75-125	-	20
Magnesium, Total	8360	928	13300	532	Q	-	75-125	-	20
Manganese, Total	216	46.4	282	142	Q	-	75-125	-	20
Nickel, Total	13.2	46.4	54.2	88		-	75-125	-	20
Potassium, Total	1580	928	2860	138	Q	-	75-125	-	20
Selenium, Total	0.935J	11.1	12.7	114		-	75-125	-	20
Silver, Total	ND	27.8	27.9	100		-	75-125	-	20
Sodium, Total	557	928	1810	135	Q	-	75-125	-	20
Thallium, Total	ND	11.1	9.42	84		-	75-125	-	20
Vanadium, Total	18.4	46.4	66.2	103		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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): 01-07 QC Batch ID: WG1464903-3 QC Sample: L2107104-11 Client ID: MS Sample									
Zinc, Total	123	46.4	207	181	Q	-	-	75-125	- 20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1464904-3 QC Sample: L2107104-12 Client ID: MS Sample									
Mercury, Total	0.136	0.164	0.283	90	-	-	-	80-120	- 20

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

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): 08-09 QC Batch ID: WG1464963-3 QC Sample: L2107005-01 Client ID: MS Sample									
Aluminum, Dissolved	0.0174	2	1.86	92	-	-	75-125	-	20
Antimony, Dissolved	0.00079J	0.5	0.4333	87	-	-	75-125	-	20
Arsenic, Dissolved	0.00104	0.12	0.1267	105	-	-	75-125	-	20
Barium, Dissolved	0.01973	2	1.934	96	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05116	102	-	-	75-125	-	20
Cadmium, Dissolved	0.00010J	0.051	0.05290	104	-	-	75-125	-	20
Calcium, Dissolved	20.8	10	31.2	104	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1879	94	-	-	75-125	-	20
Cobalt, Dissolved	0.00602	0.5	0.4796	95	-	-	75-125	-	20
Copper, Dissolved	0.00494	0.25	0.2454	96	-	-	75-125	-	20
Iron, Dissolved	0.116	1	1.14	102	-	-	75-125	-	20
Lead, Dissolved	0.00098J	0.51	0.5187	102	-	-	75-125	-	20
Magnesium, Dissolved	3.87	10	13.5	96	-	-	75-125	-	20
Manganese, Dissolved	0.3432	0.5	0.8379	99	-	-	75-125	-	20
Nickel, Dissolved	0.01496	0.5	0.4777	92	-	-	75-125	-	20
Potassium, Dissolved	2.76	10	12.4	96	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.127	106	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04942	99	-	-	75-125	-	20
Sodium, Dissolved	89.0	10	107	180	Q	-	75-125	-	20
Thallium, Dissolved	0.00037J	0.12	0.1354	113	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4778	96	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

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): 08-09 QC Batch ID: WG1464963-3 QC Sample: L2107005-01 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.5131	103	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464964-3 QC Sample: L2107005-01 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00498	100	-	-	75-125	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464859-4 QC Sample: L2106919-02 Client ID: DUP Sample						
Aluminum, Total	4.78	4.43	mg/l	8		20
Antimony, Total	0.00098J	0.00233J	mg/l	NC		20
Arsenic, Total	0.01237	0.01176	mg/l	5		20
Barium, Total	0.06557	0.06371	mg/l	3		20
Beryllium, Total	0.00031J	0.00029J	mg/l	NC		20
Cadmium, Total	0.00022	0.00022	mg/l	3		20
Calcium, Total	70.2	67.8	mg/l	3		20
Chromium, Total	0.01330	0.01274	mg/l	4		20
Cobalt, Total	0.00395	0.00378	mg/l	4		20
Copper, Total	0.1364	0.1307	mg/l	4		20
Iron, Total	8.28	7.67	mg/l	8		20
Lead, Total	0.04345	0.04263	mg/l	2		20
Magnesium, Total	3.28	3.09	mg/l	6		20
Manganese, Total	0.1698	0.1637	mg/l	4		20
Nickel, Total	0.01016	0.01040	mg/l	2		20
Potassium, Total	15.9	15.3	mg/l	4		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	20.5	19.7	mg/l	4		20

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2107086
Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464859-4 QC Sample: L2106919-02 Client ID: DUP Sample					
Thallium, Total	0.00072J	0.00022J	mg/l	NC	20
Vanadium, Total	0.01456	0.01375	mg/l	6	20
Zinc, Total	0.1711	0.1656	mg/l	3	20
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464861-4 QC Sample: L2106919-04 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1464903-4 QC Sample: L2107104-11 Client ID: DUP Sample					
Aluminum, Total	6000	5000	mg/kg	18	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	3.40	4.00	mg/kg	16	20
Barium, Total	81.2	82.3	mg/kg	1	20
Beryllium, Total	ND	ND	mg/kg	NC	20
Cadmium, Total	0.548J	0.596J	mg/kg	NC	20
Chromium, Total	13.7	13.5	mg/kg	1	20
Cobalt, Total	5.77	6.84	mg/kg	17	20
Copper, Total	23.2	30.7	mg/kg	28	Q 20
Iron, Total	11000	11400	mg/kg	4	20
Lead, Total	112	133	mg/kg	17	20
Magnesium, Total	8360	20400	mg/kg	84	Q 20
Manganese, Total	216	199	mg/kg	8	20
Nickel, Total	13.2	13.3	mg/kg	1	20
Potassium, Total	1580	1200	mg/kg	27	Q 20
Selenium, Total	0.935J	1.18J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	557	483	mg/kg	14	20
Thallium, Total	ND	ND	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1464903-4 QC Sample: L2107104-11 Client ID: DUP Sample					
Vanadium, Total	18.4	18.3	mg/kg	1	20
Zinc, Total	123	166	mg/kg	30	Q 20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1464903-4 QC Sample: L2107104-11 Client ID: DUP Sample					
Calcium, Total	55700	64700	mg/kg	15	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1464904-4 QC Sample: L2107104-12 Client ID: DUP Sample					
Mercury, Total	0.136	0.089	mg/kg	42	Q 20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 46-81 METROPOLITAN AVENUE

Project Number: 170663101

Lab Number: L2107086

Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464963-4 QC Sample: L2107005-01 Client ID: DUP Sample					
Aluminum, Dissolved	0.0174	0.0175	mg/l	1	20
Antimony, Dissolved	0.00079J	0.00113J	mg/l	NC	20
Arsenic, Dissolved	0.00104	0.00115	mg/l	10	20
Barium, Dissolved	0.01973	0.02002	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	0.00010J	0.00008J	mg/l	NC	20
Calcium, Dissolved	20.8	21.3	mg/l	2	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	0.00602	0.00607	mg/l	1	20
Copper, Dissolved	0.00494	0.00493	mg/l	0	20
Iron, Dissolved	0.116	0.136	mg/l	16	20
Lead, Dissolved	0.00098J	0.00099J	mg/l	NC	20
Magnesium, Dissolved	3.87	3.82	mg/l	1	20
Manganese, Dissolved	0.3432	0.3502	mg/l	2	20
Nickel, Dissolved	0.01496	0.01074	mg/l	33	Q 20
Potassium, Dissolved	2.76	2.68	mg/l	3	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	89.0	89.5	mg/l	1	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464963-4 QC Sample: L2107005-01 Client ID: DUP Sample					
Thallium, Dissolved	0.00037J	0.00112	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1464964-4 QC Sample: L2107005-01 Client ID: DUP Sample					
Mercury, Dissolved	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-01**Client ID:** SB15_6-8**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 15:45**Date Received:** 02/12/21**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	87.0		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-02**Client ID:** SB08_6-8**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 13:45**Date Received:** 02/12/21**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	85.9		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-03**Client ID:** SB10_6-8**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 15:15**Date Received:** 02/12/21**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	86.2		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-04**Client ID:** SB07_5-7**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 10:40**Date Received:** 02/12/21**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	83.0		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-05**Client ID:** SB09_3-5**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 14:30**Date Received:** 02/12/21**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	76.7		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-06**Client ID:** SB14_6-8**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 11:30**Date Received:** 02/12/21**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	73.4		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE**Project Number:** 170663101**Lab Number:** L2107086**Report Date:** 02/18/21**SAMPLE RESULTS****Lab ID:** L2107086-07**Client ID:** SB13_5-7**Sample Location:** QUEENS, NY**Date Collected:** 02/12/21 12:10**Date Received:** 02/12/21**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	58.8		%	0.100	NA	1	-	02/13/21 08:36	121,2540G	RI



Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2107086
Report Date: 02/18/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1464444-1 QC Sample: L2106965-01 Client ID: DUP Sample						
Solids, Total	85.3	85.7	%	0		20

Project Name: 46-81 METROPOLITAN AVENUE**Lab Number:** L2107086**Project Number:** 170663101**Report Date:** 02/18/21**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(*)
L2107086-01A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-01B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-01C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-01D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		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),ZN-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),CU-Ti(180),V-Ti(180),CO-Ti(180),FE-Ti(180),MG-Ti(180),MN-Ti(180),HG-T(28),CD-Ti(180),CA-Ti(180),K-Ti(180),NA-Ti(180)
L2107086-01F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-02A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-02B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-02C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-02D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CU-Ti(180),PB-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),HG-T(28),FE-Ti(180),MN-Ti(180),CD-Ti(180),CA-Ti(180),NA-Ti(180),K-Ti(180)
L2107086-02F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-03A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-03B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-03C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-03D	Bacteria Cup unpreserved	A	NA		4.1	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(*)
L2107086-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),NI-Ti(180),CR-Ti(180),TL-Ti(180),ZN-Ti(180),SE-Ti(180),PB-Ti(180),CU-Ti(180),SB-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),MN-Ti(180),FE-Ti(180),HG-T(28),CD-Ti(180),K-Ti(180),CA-Ti(180),NA-Ti(180)
L2107086-03F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-04A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-04B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-04C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-04D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),TL-Ti(180),AL-Ti(180),CR-Ti(180),SB-Ti(180),PB-Ti(180),ZN-Ti(180),SE-Ti(180),CU-Ti(180),V-Ti(180),CO-Ti(180),HG-T(28),MN-Ti(180),FE-Ti(180),MG-Ti(180),NA-Ti(180),K-Ti(180),CA-Ti(180),CD-Ti(180)
L2107086-04F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-05A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-05B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-05C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-05D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),PB-Ti(180),ZN-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MN-Ti(180),MG-Ti(180),FE-Ti(180),CA-Ti(180),K-Ti(180),NA-Ti(180),CD-Ti(180)
L2107086-05F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-06A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-06B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-06C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-06D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),SE-Ti(180),PB-Ti(180),SB-Ti(180),CU-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),FE-Ti(180),MN-Ti(180),HG-T(28),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107086-06F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-07A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2107086-07B	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-07C	Vial water preserved	A	NA		4.1	Y	Absent	13-FEB-21 03:43	NYTCL-8260HLW(14)
L2107086-07D	Bacteria Cup unpreserved	A	NA		4.1	Y	Absent		TS(7)
L2107086-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),NI-Ti(180),CR-Ti(180),TL-Ti(180),SB-Ti(180),ZN-Ti(180),SE-Ti(180),PB-Ti(180),CU-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MN-Ti(180),MG-Ti(180),FE-Ti(180),CD-Ti(180),CA-Ti(180),NA-Ti(180),K-Ti(180)
L2107086-07F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14)
L2107086-08A	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(14)
L2107086-08B	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(14)
L2107086-08C	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(14)
L2107086-08D	Plastic 250ml HNO3 preserved	B	<2	<2	2.6	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2107086-08E	Plastic 250ml HNO3 preserved	B	<2	<2	2.6	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2107086-08F	Amber 250ml unpreserved	B	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107086-08G	Amber 250ml unpreserved	B	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107086-09A	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(14)
L2107086-09B	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(14)
L2107086-09C	Vial HCl preserved	B	NA		2.6	Y	Absent		NYTCL-8260(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(*)
L2107086-09D	Plastic 250ml HNO3 preserved	B	<2	<2	2.6	Y	Absent		V-6020S(180),K-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),NI-6020S(180),BA-6020S(180),PB-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2107086-09E	Plastic 250ml HNO3 preserved	B	<2	<2	2.6	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),AL-6020T(180),CO-6020T(180)
L2107086-09F	Amber 250ml unpreserved	B	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107086-09G	Amber 250ml unpreserved	B	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

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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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



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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.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVENUE
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Data Qualifiers

- 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.

Project Name: 46-81 METROPOLITAN AVENUE
Project Number: 170663101

Lab Number: L2107086
Report Date: 02/18/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 18

Department: **Quality Assurance**

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Title: **Certificate/Approval Program Summary**

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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, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** 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, SM4500CI-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, SM9222D.****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, EPA 537.1.****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.

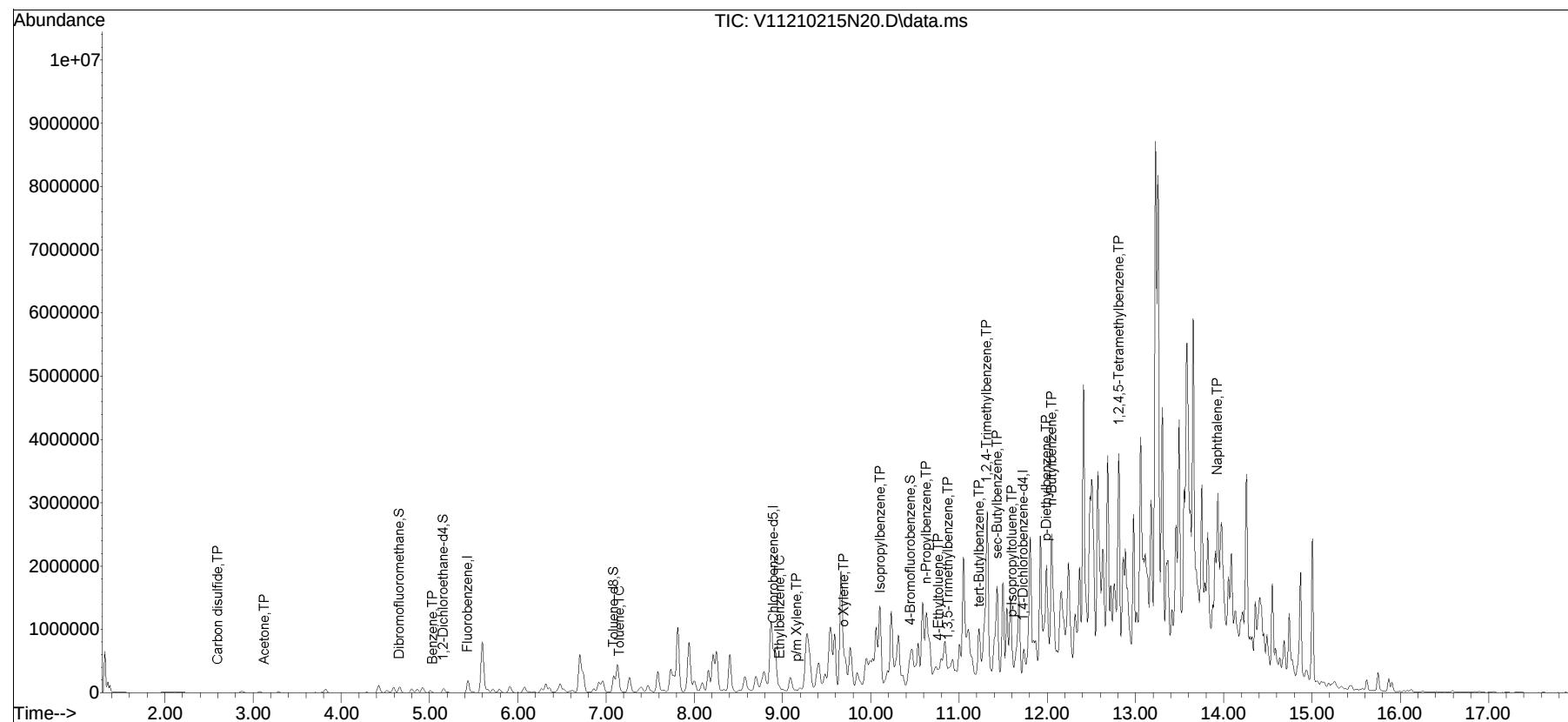
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 2/12/21		ALPHA Job # L2107086			
Client Information Client: Langan Address: 21 Penn Plaza, 360 W 31st St, 8th Floor, NY, NY 10019 Phone: 212-479-5400 Fax: Email: p.mcmahon@langan.com		Project Information Project Name: 46-81 Metro Ave Project Location: Queens, NY Project # 170663101 (Use Project name as Project #) ☐ Project Manager: Paul McMahon ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Deliverables ☒ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other TCL ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:	
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles	
Other project specific requirements/comments: please also email to jgolding@langan.com and dntamangement@langan.com						Part 375/TCL Part 375/TCL TAL Metals		Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials			
07086-01		SB15-6-8		02/12/2021 1545		S		CG		X X X	
-02		SB08-6-8		1345				TZ		X X X	
-03		SB10-6-8		1515				TZ		X X X	
-04		SB07-5-7		1040				TZ		X X X	
-05		SB09-3-5		1430				CG		X X X	
-06		SB14-0-8		1130				TZ		X X X	
-07		SB13-5-7		1210				TZ		X X X	
-08		MW09-021221		1525				LM		X X X	
-09		MW03-021221		1151				CG		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			
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: Tyler Zorn AAL 2/12/21 23:50		Date/Time 02/12/2021 1630 2/12/21 1835 2/12/21 23:50		Received By: AAL AAL AAL		Date/Time 2/12/21 1630 2/12/21 20:50 2/12/21 23:50		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.)	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2021\210215N\
Data File : V11210215N20.D
Acq On : 16 Feb 2021 01:45 am
Operator : VOA111:JC
Sample : L2107086-01,31H,6.34,5,0.100,,A,PRI
Misc : WG1465188,ICAL17504
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 16 09:17:05 2021
Quant Method : I:\VOLATILES\VOA111\2021\210215N\V111_210107N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Jan 12 14:43:44 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10215N\V11210215N01.D•





ANALYTICAL REPORT

Lab Number:	L2107477
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Paul McMahon
Phone:	(212) 479-5429
Project Name:	46-81 METROPOLITAN AVE
Project Number:	170663101
Report Date:	02/22/21

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2107477-01	MW02_021621	WATER	QUEENS, NY	02/16/21 09:30	02/16/21
L2107477-02	MW01_021621	WATER	QUEENS, NY	02/16/21 11:30	02/16/21
L2107477-03	MW12_021621	WATER	QUEENS, NY	02/16/21 13:30	02/16/21
L2107477-04	SB12_3-5	SOIL	QUEENS, NY	02/16/21 12:40	02/16/21
L2107477-05	SB11_5-7	SOIL	QUEENS, NY	02/16/21 13:20	02/16/21
L2107477-06	SB16_3-5	SOIL	QUEENS, NY	02/16/21 14:15	02/16/21
L2107477-07	MW05_021621	WATER	QUEENS, NY	02/16/21 14:45	02/16/21
L2107477-08	MW11_021621	WATER	QUEENS, NY	02/16/21 15:05	02/16/21
L2107477-09	SOFB01_021621	WATER	QUEENS, NY	02/16/21 15:07	02/16/21
L2107477-10	GWFB01_021621	WATER	QUEENS, NY	02/16/21 15:07	02/16/21

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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

L2107477-01, -02, -03, -07, -08 and -10: At the client's request, the Dissolved Metals analysis was performed. The samples were field filtered for Dissolved Metals.

L2107477-09: Sample containers for the Dissolved Metals analysis were received for the "SOFB01_021621" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

Volatile Organics

L2107477-04: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (49%) was outside the acceptance criteria. A second low-level vial was analyzed, but yielded no internal standard recoveries. A high-level analysis was performed, and those results are also reported.

L2107477-07: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (152%); 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.

Total Metals

L2107477-04, -05 and -06: 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.

L2107477-09 and -10: 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.

Dissolved Metals

L2107477-10: The Field Blank has a result for sodium present above the reporting limit. The sample was

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Case Narrative (continued)

verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1465531 CCV recovery, associated with WG1465644-1, was above the acceptance criteria for antimony. Any associated samples with positive detections were re-analyzed under a passing CCV. The samples that were non-detect for these elements are reporting results from the original analyses.

Solids, Total

L2107477-04, -05 and -06: A Laboratory Duplicate was prepared with the sample batch; however, analysis of the native sample was cancelled; therefore, the QC result could not be 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:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 02/22/21

ORGANICS

VOLATILES

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-01
Client ID: MW02_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/17/21 22:43
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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-01**Date Collected:** 02/16/21 09:30**Client ID:** MW02_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**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	0.81	J	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	2.6	J	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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-01
Client ID: MW02_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
Date Received: 02/16/21
Field Prep: Refer to COC

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	2.1		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	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	114		70-130

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 02/17/21 23:06
 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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	1.1	J	ug/l	2.5	0.70	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-02
Client ID: MW01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
Date Received: 02/16/21
Field Prep: Refer to COC

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	1.9	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	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	115		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
Client ID: MW12_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/17/21 23:29
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	0.24	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.34	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-03**Date Collected:** 02/16/21 13:30**Client ID:** MW12_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.66		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	7.5		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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
Client ID: MW12_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
Date Received: 02/16/21
Field Prep: Refer to COC

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	113		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	114		70-130

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/19/21 09:21

Analyst: MV

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	ND		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	ND		ug/kg	0.50	0.16	1
Toluene	ND		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: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	2.4		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	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	34		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		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	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	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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04
Client ID: SB12_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:40
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	79	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	ND		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	124		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/19/21 15:35

Analyst: MKS

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	65	9.5	1
Chloroform	ND		ug/kg	98	9.1	1
Carbon tetrachloride	ND		ug/kg	65	15.	1
1,2-Dichloropropane	ND		ug/kg	65	8.2	1
Dibromochloromethane	ND		ug/kg	65	9.1	1
1,1,2-Trichloroethane	ND		ug/kg	65	17.	1
Tetrachloroethene	ND		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.3	1
Trichlorofluoromethane	ND		ug/kg	260	45.	1
1,2-Dichloroethane	ND		ug/kg	65	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.1	1
trans-1,3-Dichloropropene	ND		ug/kg	65	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	65	35.	1
Ethylbenzene	ND		ug/kg	65	9.2	1
Chloromethane	ND		ug/kg	260	61.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	ND		ug/kg	65	22.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	65	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	98	8.9	1

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

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	33	8.9	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.6	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	36.	1
o-Xylene	ND		ug/kg	65	19.	1
Xylenes, Total	ND		ug/kg	65	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	65	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	65	8.9	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	65	13.	1
Dichlorodifluoromethane	ND		ug/kg	650	60.	1
Carbon disulfide	ND		ug/kg	650	300	1
2-Butanone	ND		ug/kg	650	140	1
Vinyl acetate	ND		ug/kg	650	140	1
4-Methyl-2-pentanone	ND		ug/kg	650	84.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.3	1
2-Hexanone	ND		ug/kg	650	77.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	65	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.6	1
Bromobenzene	ND		ug/kg	130	9.5	1
n-Butylbenzene	ND		ug/kg	65	11.	1
sec-Butylbenzene	ND		ug/kg	65	9.5	1
tert-Butylbenzene	ND		ug/kg	130	7.7	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	7.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	65.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	65	7.1	1
p-Isopropyltoluene	ND		ug/kg	65	7.1	1
Naphthalene	ND		ug/kg	260	42.	1
Acrylonitrile	ND		ug/kg	260	75.	1
n-Propylbenzene	ND		ug/kg	65	11.	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04
Client ID: SB12_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:40
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5200	2300	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	ND		ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	93.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	85		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05
Client ID: SB11_5-7
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:20
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/18/21 14:10
Analyst: AJK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	410	190	1
1,1-Dichloroethane	ND		ug/kg	82	12.	1
Chloroform	ND		ug/kg	120	12.	1
Carbon tetrachloride	ND		ug/kg	82	19.	1
1,2-Dichloropropane	ND		ug/kg	82	10.	1
Dibromochloromethane	ND		ug/kg	82	12.	1
1,1,2-Trichloroethane	ND		ug/kg	82	22.	1
Tetrachloroethene	ND		ug/kg	41	16.	1
Chlorobenzene	ND		ug/kg	41	10.	1
Trichlorofluoromethane	ND		ug/kg	330	57.	1
1,2-Dichloroethane	ND		ug/kg	82	21.	1
1,1,1-Trichloroethane	ND		ug/kg	41	14.	1
Bromodichloromethane	ND		ug/kg	41	9.0	1
trans-1,3-Dichloropropene	ND		ug/kg	82	22.	1
cis-1,3-Dichloropropene	ND		ug/kg	41	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	41	13.	1
1,1-Dichloropropene	ND		ug/kg	41	13.	1
Bromoform	ND		ug/kg	330	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	41	14.	1
Benzene	330		ug/kg	41	14.	1
Toluene	260		ug/kg	82	45.	1
Ethylbenzene	120		ug/kg	82	12.	1
Chloromethane	ND		ug/kg	330	77.	1
Bromomethane	ND		ug/kg	160	48.	1
Vinyl chloride	ND		ug/kg	82	28.	1
Chloroethane	ND		ug/kg	160	37.	1
1,1-Dichloroethene	ND		ug/kg	82	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05

Date Collected: 02/16/21 13:20

Client ID: SB11_5-7

Date Received: 02/16/21

Sample Location: QUEENS, NY

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	41	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	12.	1
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	14.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	180		ug/kg	160	46.	1
o-Xylene	24	J	ug/kg	82	24.	1
Xylenes, Total	200	J	ug/kg	82	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	82	14.	1
1,2-Dichloroethene, Total	ND		ug/kg	82	11.	1
Dibromomethane	ND		ug/kg	160	20.	1
Styrene	22	J	ug/kg	82	16.	1
Dichlorodifluoromethane	ND		ug/kg	820	75.	1
Acetone	ND		ug/kg	820	400	1
Carbon disulfide	7600		ug/kg	820	370	1
2-Butanone	ND		ug/kg	820	180	1
Vinyl acetate	ND		ug/kg	820	180	1
4-Methyl-2-pentanone	ND		ug/kg	820	100	1
1,2,3-Trichloropropane	ND		ug/kg	160	10.	1
2-Hexanone	ND		ug/kg	820	97.	1
Bromochloromethane	ND		ug/kg	160	17.	1
2,2-Dichloropropane	ND		ug/kg	160	17.	1
1,2-Dibromoethane	ND		ug/kg	82	23.	1
1,3-Dichloropropane	ND		ug/kg	160	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	41	11.	1
Bromobenzene	ND		ug/kg	160	12.	1
n-Butylbenzene	ND		ug/kg	82	14.	1
sec-Butylbenzene	ND		ug/kg	82	12.	1
tert-Butylbenzene	ND		ug/kg	160	9.7	1
o-Chlorotoluene	ND		ug/kg	160	16.	1
p-Chlorotoluene	ND		ug/kg	160	8.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	82.	1
Hexachlorobutadiene	ND		ug/kg	330	14.	1
Isopropylbenzene	13	J	ug/kg	82	9.0	1
p-Isopropyltoluene	9.6	J	ug/kg	82	9.0	1
Naphthalene	29000	E	ug/kg	330	53.	1
Acrylonitrile	ND		ug/kg	330	94.	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05
Client ID: SB11_5-7
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:20
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	82	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	22.	1
1,3,5-Trimethylbenzene	42	J	ug/kg	160	16.	1
1,2,4-Trimethylbenzene	82	J	ug/kg	160	27.	1
1,4-Dioxane	ND		ug/kg	6600	2900	1
p-Diethylbenzene	69	J	ug/kg	160	14.	1
p-Ethyltoluene	120	J	ug/kg	160	32.	1
1,2,4,5-Tetramethylbenzene	47	J	ug/kg	160	16.	1
Ethyl ether	ND		ug/kg	160	28.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	410	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05 D
 Client ID: SB11_5-7
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:20
 Date Received: 02/16/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/18/21 13:49
 Analyst: AJK
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by EPA 5035 High - Westborough Lab						

Naphthalene	32000		ug/kg	1300	210	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-06

Date Collected: 02/16/21 14:15

Client ID: SB16_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/18/21 13:28

Analyst: AJK

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.76	0.30	1
Chlorobenzene	ND		ug/kg	0.76	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	0.25	1
Bromodichloromethane	ND		ug/kg	0.76	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.76	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	0.25	1
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-06

Date Collected: 02/16/21 14:15

Client ID: SB16_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.76	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	0.34	J	ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.85	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	94		ug/kg	15	7.3	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	20		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	0.41	J	ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-06
Client ID: SB16_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:15
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.49	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.52	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
Client ID: MW05_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/19/21 04:05
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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-07
 Client ID: MW05_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	0.98	J	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	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	11		ug/l	2.5	0.70	1
sec-Butylbenzene	11		ug/l	2.5	0.70	1
tert-Butylbenzene	3.0		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	13		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	7.3		ug/l	2.5	0.70	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
Client ID: MW05_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	21		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	0.96	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	5.2		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	53		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	105		70-130
4-Bromofluorobenzene	152	Q	70-130
Dibromofluoromethane	114		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-08
Client ID: MW11_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/18/21 00:16
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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-08
 Client ID: MW11_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	1.0	J	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	0.88	J	ug/l	2.5	0.70	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-08
Client ID: MW11_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
Date Received: 02/16/21
Field Prep: Refer to COC

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	0.88	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	115		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	116		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-09
Client ID: SOFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/17/21 12:17
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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-09
 Client ID: SOFB01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
 Date Received: 02/16/21
 Field Prep: Refer to COC

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-09**Date Collected:** 02/16/21 15:07**Client ID:** SOFB01_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**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	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-10
Client ID: GWFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/17/21 12:40
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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-10
 Client ID: GWFB01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
 Date Received: 02/16/21
 Field Prep: Refer to COC

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-10
Client ID: GWFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

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	107		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1465619-5					
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

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1465619-5					
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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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1465619-5					
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	107		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,08 Batch: WG1466074-5					
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
1,1,1,2-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

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,08 Batch: WG1466074-5					
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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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,08 Batch: WG1466074-5					
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	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1466227-5					
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

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1466227-5					
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

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1466227-5					
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	80	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	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	93		70-130

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1466228-5					
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

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1466228-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/18/21 06:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1466228-5					
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	4000	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	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	93		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/19/21 07:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1466397-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/19/21 07:16
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1466397-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/19/21 07:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1466397-5					
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	80	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	97		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	81		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/18/21 20:17
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1466439-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/18/21 20:17
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1466439-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/18/21 20:17
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1466439-5					
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	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	115		70-130

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/19/21 07:16
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1466460-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/19/21 07:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1466460-5					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/19/21 07:16
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1466460-5					
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	4000	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	97		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	81		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1465619-3 WG1465619-4								
Methylene chloride	92		93		70-130	1		20
1,1-Dichloroethane	91		92		70-130	1		20
Chloroform	96		97		70-130	1		20
Carbon tetrachloride	93		93		63-132	0		20
1,2-Dichloropropane	88		90		70-130	2		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	94		95		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	99		100		62-150	1		20
1,2-Dichloroethane	96		97		70-130	1		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	96		99		67-130	3		20
trans-1,3-Dichloropropene	97		100		70-130	3		20
cis-1,3-Dichloropropene	91		93		70-130	2		20
1,1-Dichloropropene	92		94		70-130	2		20
Bromoform	95		97		54-136	2		20
1,1,2,2-Tetrachloroethane	87		91		67-130	4		20
Benzene	92		94		70-130	2		20
Toluene	97		99		70-130	2		20
Ethylbenzene	95		95		70-130	0		20
Chloromethane	74		76		64-130	3		20
Bromomethane	78		91		39-139	15		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1465619-3 WG1465619-4								
Vinyl chloride	80		80		55-140	0		20
Chloroethane	84		86		55-138	2		20
1,1-Dichloroethene	89		91		61-145	2		20
trans-1,2-Dichloroethene	93		93		70-130	0		20
Trichloroethene	99		99		70-130	0		20
1,2-Dichlorobenzene	98		97		70-130	1		20
1,3-Dichlorobenzene	98		97		70-130	1		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	92		93		63-130	1		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	89		92		70-130	3		20
1,2,3-Trichloropropane	90		92		64-130	2		20
Acrylonitrile	78		78		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	81		82		36-147	1		20
Acetone	83		78		58-148	6		20
Carbon disulfide	86		88		51-130	2		20
2-Butanone	76		75		63-138	1		20
Vinyl acetate	79		80		70-130	1		20
4-Methyl-2-pentanone	77		83		59-130	8		20
2-Hexanone	73		74		57-130	1		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1465619-3 WG1465619-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	93		98		70-130	5		20
1,3-Dichloropropane	93		96		70-130	3		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	94		93		53-136	1		20
sec-Butylbenzene	94		94		70-130	0		20
tert-Butylbenzene	98		99		70-130	1		20
o-Chlorotoluene	96		95		70-130	1		20
p-Chlorotoluene	96		97		70-130	1		20
1,2-Dibromo-3-chloropropane	86		87		41-144	1		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	98		98		70-130	0		20
p-Isopropyltoluene	98		99		70-130	1		20
Naphthalene	84		91		70-130	8		20
n-Propylbenzene	95		95		69-130	0		20
1,2,3-Trichlorobenzene	99		100		70-130	1		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	98		99		70-130	1		20
1,4-Dioxane	82		96		56-162	16		20
p-Diethylbenzene	99		98		70-130	1		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1465619-3 WG1465619-4								
p-Ethyltoluene	98		99		70-130	1		20
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		20
Ethyl ether	87		88		59-134	1		20
trans-1,4-Dichloro-2-butene	77		83		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	107		109		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	110		107		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08 Batch: WG1466074-3 WG1466074-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	89		89		63-130	0		20
1,1,2-Trichloroethane	99		100		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	140		140		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	96		98		67-130	2		20
trans-1,3-Dichloropropene	94		95		70-130	1		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	87		90		54-136	3		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	130		130		64-130	0		20
Bromomethane	150	Q	150	Q	39-139	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08 Batch: WG1466074-3 WG1466074-4								
Vinyl chloride	130		130		55-140	0		20
Chloroethane	140	Q	140	Q	55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	92		92		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	94		98		63-130	4		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		110		70-130	10		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	96		100		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	140		140		36-147	0		20
Acetone	95		100		58-148	5		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	97		100		63-138	3		20
Vinyl acetate	99		90		70-130	10		20
4-Methyl-2-pentanone	88		92		59-130	4		20
2-Hexanone	90		98		57-130	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08 Batch: WG1466074-3 WG1466074-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	95		96		64-130	1		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	88		88		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	97		100		41-144	3		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	100		110		70-130	10		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	97		96		64-130	1		20
1,2,4-Trimethylbenzene	98		97		70-130	1		20
1,4-Dioxane	92		98		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,08 Batch: WG1466074-3 WG1466074-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		99		70-130	1		20
Ethyl ether	120		120		59-134	0		20
trans-1,4-Dichloro-2-butene	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		118		70-130
Toluene-d8	107		106		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	109		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1466227-3 WG1466227-4								
Methylene chloride	99		100		70-130	1		30
1,1-Dichloroethane	94		95		70-130	1		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	102		101		70-130	1		30
1,1,2-Trichloroethane	91		93		70-130	2		30
Tetrachloroethene	107		106		70-130	1		30
Chlorobenzene	102		99		70-130	3		30
Trichlorofluoromethane	94		91		70-139	3		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	94		95		70-130	1		30
trans-1,3-Dichloropropene	102		101		70-130	1		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	99		99		70-130	0		30
Bromoform	104		106		70-130	2		30
1,1,2,2-Tetrachloroethane	89		91		70-130	2		30
Benzene	100		101		70-130	1		30
Toluene	99		97		70-130	2		30
Ethylbenzene	98		96		70-130	2		30
Chloromethane	97		93		52-130	4		30
Bromomethane	127		117		57-147	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1466227-3 WG1466227-4								
Vinyl chloride	101		101		67-130	0		30
Chloroethane	106		103		50-151	3		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	98		99		70-130	1		30
Trichloroethene	101		99		70-130	2		30
1,2-Dichlorobenzene	97		96		70-130	1		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	101		98		70-130	3		30
Methyl tert butyl ether	91		93		66-130	2		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	96		94		70-130	2		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	87		90		70-130	3		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	93		92		30-146	1		30
Acetone	79		80		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	72		76		70-130	5		30
Vinyl acetate	91		94		70-130	3		30
4-Methyl-2-pentanone	82		86		70-130	5		30
1,2,3-Trichloropropane	87		88		68-130	1		30
2-Hexanone	77		80		70-130	4		30
Bromochloromethane	91		95		70-130	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1466227-3 WG1466227-4								
2,2-Dichloropropane	101		96		70-130	5		30
1,2-Dibromoethane	89		91		70-130	2		30
1,3-Dichloropropane	92		91		69-130	1		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	99		96		70-130	3		30
n-Butylbenzene	111		108		70-130	3		30
sec-Butylbenzene	102		100		70-130	2		30
tert-Butylbenzene	100		98		70-130	2		30
o-Chlorotoluene	115		112		70-130	3		30
p-Chlorotoluene	98		96		70-130	2		30
1,2-Dibromo-3-chloropropane	94		102		68-130	8		30
Hexachlorobutadiene	112		108		67-130	4		30
Isopropylbenzene	99		98		70-130	1		30
p-Isopropyltoluene	106		104		70-130	2		30
Naphthalene	99		100		70-130	1		30
Acrylonitrile	89		89		70-130	0		30
n-Propylbenzene	102		100		70-130	2		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	113		110		70-130	3		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
1,4-Dioxane	72		75		65-136	4		30
p-Diethylbenzene	111		108		70-130	3		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1466227-3 WG1466227-4								
p-Ethyltoluene	102		100		70-130	2		30
1,2,4,5-Tetramethylbenzene	115		114		70-130	1		30
Ethyl ether	97		100		67-130	3		30
trans-1,4-Dichloro-2-butene	94		89		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		89		70-130
Toluene-d8	101		97		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1466228-3 WG1466228-4								
Methylene chloride	99		100		70-130	1		30
1,1-Dichloroethane	94		95		70-130	1		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	102		101		70-130	1		30
1,1,2-Trichloroethane	91		93		70-130	2		30
Tetrachloroethene	107		106		70-130	1		30
Chlorobenzene	102		99		70-130	3		30
Trichlorofluoromethane	94		91		70-139	3		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	94		95		70-130	1		30
trans-1,3-Dichloropropene	102		101		70-130	1		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	99		99		70-130	0		30
Bromoform	104		106		70-130	2		30
1,1,2,2-Tetrachloroethane	89		91		70-130	2		30
Benzene	100		101		70-130	1		30
Toluene	99		97		70-130	2		30
Ethylbenzene	98		96		70-130	2		30
Chloromethane	97		93		52-130	4		30
Bromomethane	127		117		57-147	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1466228-3 WG1466228-4								
Vinyl chloride	101		101		67-130	0		30
Chloroethane	106		103		50-151	3		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	98		99		70-130	1		30
Trichloroethene	101		99		70-130	2		30
1,2-Dichlorobenzene	97		96		70-130	1		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	101		98		70-130	3		30
Methyl tert butyl ether	91		93		66-130	2		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	96		94		70-130	2		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	87		90		70-130	3		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	93		92		30-146	1		30
Acetone	79		80		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	72		76		70-130	5		30
Vinyl acetate	91		94		70-130	3		30
4-Methyl-2-pentanone	82		86		70-130	5		30
1,2,3-Trichloropropane	87		88		68-130	1		30
2-Hexanone	77		80		70-130	4		30
Bromochloromethane	91		95		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1466228-3 WG1466228-4								
2,2-Dichloropropane	101		96		70-130	5		30
1,2-Dibromoethane	89		91		70-130	2		30
1,3-Dichloropropane	92		91		69-130	1		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	99		96		70-130	3		30
n-Butylbenzene	111		108		70-130	3		30
sec-Butylbenzene	102		100		70-130	2		30
tert-Butylbenzene	100		98		70-130	2		30
o-Chlorotoluene	115		112		70-130	3		30
p-Chlorotoluene	98		96		70-130	2		30
1,2-Dibromo-3-chloropropane	94		102		68-130	8		30
Hexachlorobutadiene	112		108		67-130	4		30
Isopropylbenzene	99		98		70-130	1		30
p-Isopropyltoluene	106		104		70-130	2		30
Naphthalene	99		100		70-130	1		30
Acrylonitrile	89		89		70-130	0		30
n-Propylbenzene	102		100		70-130	2		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	113		110		70-130	3		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
1,4-Dioxane	72		75		65-136	4		30
p-Diethylbenzene	111		108		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1466228-3 WG1466228-4								
p-Ethyltoluene	102		100		70-130	2		30
1,2,4,5-Tetramethylbenzene	115		114		70-130	1		30
Ethyl ether	97		100		67-130	3		30
trans-1,4-Dichloro-2-butene	94		89		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		89		70-130
Toluene-d8	101		97		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1466397-3 WG1466397-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	99		99		70-130	0		30
Chloroform	86		87		70-130	1		30
Carbon tetrachloride	76		77		70-130	1		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	84		87		70-130	4		30
1,1,2-Trichloroethane	106		107		70-130	1		30
Tetrachloroethene	78		80		70-130	3		30
Chlorobenzene	90		90		70-130	0		30
Trichlorofluoromethane	76		75		70-139	1		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	82		82		70-130	0		30
Bromodichloromethane	93		94		70-130	1		30
trans-1,3-Dichloropropene	98		100		70-130	2		30
cis-1,3-Dichloropropene	84		85		70-130	1		30
1,1-Dichloropropene	86		86		70-130	0		30
Bromoform	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	111		114		70-130	3		30
Benzene	91		91		70-130	0		30
Toluene	92		92		70-130	0		30
Ethylbenzene	90		91		70-130	1		30
Chloromethane	106		103		52-130	3		30
Bromomethane	106		99		57-147	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1466397-3 WG1466397-4								
Vinyl chloride	103		101		67-130	2		30
Chloroethane	133		134		50-151	1		30
1,1-Dichloroethene	81		81		65-135	0		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	86		87		70-130	1		30
1,2-Dichlorobenzene	90		90		70-130	0		30
1,3-Dichlorobenzene	89		88		70-130	1		30
1,4-Dichlorobenzene	87		86		70-130	1		30
Methyl tert butyl ether	87		88		66-130	1		30
p/m-Xylene	89		90		70-130	1		30
o-Xylene	88		90		70-130	2		30
cis-1,2-Dichloroethene	85		85		70-130	0		30
Dibromomethane	92		92		70-130	0		30
Styrene	93		95		70-130	2		30
Dichlorodifluoromethane	68		65		30-146	5		30
Acetone	115		116		54-140	1		30
Carbon disulfide	76		75		59-130	1		30
2-Butanone	123		129		70-130	5		30
Vinyl acetate	102		107		70-130	5		30
4-Methyl-2-pentanone	105		114		70-130	8		30
1,2,3-Trichloropropane	112		113		68-130	1		30
2-Hexanone	102		110		70-130	8		30
Bromochloromethane	85		85		70-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1466397-3 WG1466397-4								
2,2-Dichloropropane	77		77		70-130	0		30
1,2-Dibromoethane	87		89		70-130	2		30
1,3-Dichloropropane	104		106		69-130	2		30
1,1,1,2-Tetrachloroethane	92		92		70-130	0		30
Bromobenzene	86		86		70-130	0		30
n-Butylbenzene	92		92		70-130	0		30
sec-Butylbenzene	91		91		70-130	0		30
tert-Butylbenzene	86		86		70-130	0		30
o-Chlorotoluene	94		94		70-130	0		30
p-Chlorotoluene	93		93		70-130	0		30
1,2-Dibromo-3-chloropropane	81		83		68-130	2		30
Hexachlorobutadiene	76		77		67-130	1		30
Isopropylbenzene	87		87		70-130	0		30
p-Isopropyltoluene	85		86		70-130	1		30
Naphthalene	88		92		70-130	4		30
Acrylonitrile	108		112		70-130	4		30
n-Propylbenzene	92		93		70-130	1		30
1,2,3-Trichlorobenzene	83		84		70-130	1		30
1,2,4-Trichlorobenzene	76		76		70-130	0		30
1,3,5-Trimethylbenzene	90		89		70-130	1		30
1,2,4-Trimethylbenzene	90		90		70-130	0		30
1,4-Dioxane	73		76		65-136	4		30
p-Diethylbenzene	82		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1466397-3 WG1466397-4								
p-Ethyltoluene	88		88		70-130	0		30
1,2,4,5-Tetramethylbenzene	81		82		70-130	1		30
Ethyl ether	99		99		67-130	0		30
trans-1,4-Dichloro-2-butene	110		121		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	82		84		70-130
Dibromofluoromethane	82		82		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1466439-3 WG1466439-4								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		99		70-130	11		20
Carbon tetrachloride	110		97		63-132	13		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	88		83		63-130	6		20
1,1,2-Trichloroethane	100		95		70-130	5		20
Tetrachloroethene	110		96		70-130	14		20
Chlorobenzene	110		99		75-130	11		20
Trichlorofluoromethane	140		130		62-150	7		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		94		67-130	6		20
trans-1,3-Dichloropropene	93		87		70-130	7		20
cis-1,3-Dichloropropene	99		93		70-130	6		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	85		83		54-136	2		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	100		97		70-130	3		20
Ethylbenzene	100		96		70-130	4		20
Chloromethane	120		110		64-130	9		20
Bromomethane	100		94		39-139	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1466439-3 WG1466439-4								
Vinyl chloride	120		110		55-140	9		20
Chloroethane	150	Q	130		55-138	14		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	97		90		70-130	7		20
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	110		100		70-130	10		20
Methyl tert butyl ether	92		88		63-130	4		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	99		97		70-130	2		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	89		89		58-148	0		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	94		90		63-138	4		20
Vinyl acetate	99		97		70-130	2		20
4-Methyl-2-pentanone	85		81		59-130	5		20
2-Hexanone	90		92		57-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1466439-3 WG1466439-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	100		94		63-133	6		20
1,2-Dibromoethane	100		96		70-130	4		20
1,3-Dichloropropane	100		97		70-130	3		20
1,1,1,2-Tetrachloroethane	95		89		64-130	7		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	90		85		70-130	6		20
o-Chlorotoluene	100		98		70-130	2		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	97		96		41-144	1		20
Hexachlorobutadiene	110		100		63-130	10		20
Isopropylbenzene	100		99		70-130	1		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	110		99		69-130	11		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	99		94		64-130	5		20
1,2,4-Trimethylbenzene	100		93		70-130	7		20
1,4-Dioxane	80		72		56-162	11		20
p-Diethylbenzene	100		97		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1466439-3 WG1466439-4								
p-Ethyltoluene	100		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	100		95		70-130	5		20
Ethyl ether	120		120		59-134	0		20
trans-1,4-Dichloro-2-butene	94		90		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		118		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	112		111		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1466460-3 WG1466460-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	99		99		70-130	0		30
Chloroform	86		87		70-130	1		30
Carbon tetrachloride	76		77		70-130	1		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	84		87		70-130	4		30
1,1,2-Trichloroethane	106		107		70-130	1		30
Tetrachloroethene	78		80		70-130	3		30
Chlorobenzene	90		90		70-130	0		30
Trichlorofluoromethane	76		75		70-139	1		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	82		82		70-130	0		30
Bromodichloromethane	93		94		70-130	1		30
trans-1,3-Dichloropropene	98		100		70-130	2		30
cis-1,3-Dichloropropene	84		85		70-130	1		30
1,1-Dichloropropene	86		86		70-130	0		30
Bromoform	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	111		114		70-130	3		30
Benzene	91		91		70-130	0		30
Toluene	92		92		70-130	0		30
Ethylbenzene	90		91		70-130	1		30
Chloromethane	106		103		52-130	3		30
Bromomethane	106		99		57-147	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1466460-3 WG1466460-4								
Vinyl chloride	103		101		67-130	2		30
Chloroethane	133		134		50-151	1		30
1,1-Dichloroethene	81		81		65-135	0		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	86		87		70-130	1		30
1,2-Dichlorobenzene	90		90		70-130	0		30
1,3-Dichlorobenzene	89		88		70-130	1		30
1,4-Dichlorobenzene	87		86		70-130	1		30
Methyl tert butyl ether	87		88		66-130	1		30
p/m-Xylene	89		90		70-130	1		30
o-Xylene	88		90		70-130	2		30
cis-1,2-Dichloroethene	85		85		70-130	0		30
Dibromomethane	92		92		70-130	0		30
Styrene	93		95		70-130	2		30
Dichlorodifluoromethane	68		65		30-146	5		30
Acetone	115		116		54-140	1		30
Carbon disulfide	76		75		59-130	1		30
2-Butanone	123		129		70-130	5		30
Vinyl acetate	102		107		70-130	5		30
4-Methyl-2-pentanone	105		114		70-130	8		30
1,2,3-Trichloropropane	112		113		68-130	1		30
2-Hexanone	102		110		70-130	8		30
Bromochloromethane	85		85		70-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1466460-3 WG1466460-4								
2,2-Dichloropropane	77		77		70-130	0		30
1,2-Dibromoethane	87		89		70-130	2		30
1,3-Dichloropropane	104		106		69-130	2		30
1,1,1,2-Tetrachloroethane	92		92		70-130	0		30
Bromobenzene	86		86		70-130	0		30
n-Butylbenzene	92		92		70-130	0		30
sec-Butylbenzene	91		91		70-130	0		30
tert-Butylbenzene	86		86		70-130	0		30
o-Chlorotoluene	94		94		70-130	0		30
p-Chlorotoluene	93		93		70-130	0		30
1,2-Dibromo-3-chloropropane	81		83		68-130	2		30
Hexachlorobutadiene	76		77		67-130	1		30
Isopropylbenzene	87		87		70-130	0		30
p-Isopropyltoluene	85		86		70-130	1		30
Naphthalene	88		92		70-130	4		30
Acrylonitrile	108		112		70-130	4		30
n-Propylbenzene	92		93		70-130	1		30
1,2,3-Trichlorobenzene	83		84		70-130	1		30
1,2,4-Trichlorobenzene	76		76		70-130	0		30
1,3,5-Trimethylbenzene	90		89		70-130	1		30
1,2,4-Trimethylbenzene	90		90		70-130	0		30
1,4-Dioxane	73		76		65-136	4		30
p-Diethylbenzene	82		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1466460-3 WG1466460-4								
p-Ethyltoluene	88		88		70-130	0		30
1,2,4,5-Tetramethylbenzene	81		82		70-130	1		30
Ethyl ether	99		99		67-130	0		30
trans-1,4-Dichloro-2-butene	110		121		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	82		84		70-130
Dibromofluoromethane	82		82		70-130

SEMIVOLATILES

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-01
Client ID: MW02_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/18/21 04:34
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 09:24

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-01
 Client ID: MW02_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	53		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	71		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-01
Client ID: MW02_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 16:22
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 08:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.36		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.45		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.10		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.18		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.20		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.18		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.10		ug/l	0.10	0.01	1
Chrysene	0.16		ug/l	0.10	0.01	1
Acenaphthylene	0.18		ug/l	0.10	0.01	1
Anthracene	0.21		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.13		ug/l	0.10	0.01	1
Fluorene	0.55		ug/l	0.10	0.01	1
Phenanthrene	1.1		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	0.61		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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-01

Date Collected: 02/16/21 09:30

Client ID: MW02_021621

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	43		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	99		41-149

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 02/18/21 05:25
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 02/17/21 09:24

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	56		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	63		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-02
Client ID: MW01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 16:41
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 08:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.7		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.1		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.14		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.42		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.42		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.47		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.16		ug/l	0.10	0.01	1
Chrysene	0.43		ug/l	0.10	0.01	1
Acenaphthylene	0.36		ug/l	0.10	0.01	1
Anthracene	0.86		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.28		ug/l	0.10	0.01	1
Fluorene	1.8		ug/l	0.10	0.01	1
Phenanthrene	0.36		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.28		ug/l	0.10	0.01	1
Pyrene	2.2		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.15		ug/l	0.10	0.02	1
Pentachlorophenol	0.13	J	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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-02
Client ID: MW01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
Date Received: 02/16/21
Field Prep: Refer to COC

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	44		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	87		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
Client ID: MW12_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/18/21 05:51
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 10:38

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-03**Date Collected:** 02/16/21 13:30**Client ID:** MW12_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**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	43		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	67		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
Client ID: MW12_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 17:00
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 11:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.0		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	0.55		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.63		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.64		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.26		ug/l	0.10	0.01	1
Chrysene	0.47		ug/l	0.10	0.01	1
Acenaphthylene	0.04	J	ug/l	0.10	0.01	1
Anthracene	0.09	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.31		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.41		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.09	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.34		ug/l	0.10	0.01	1
Pyrene	0.94		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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
Client ID: MW12_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
Date Received: 02/16/21
Field Prep: Refer to COC

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	43		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	96		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04
Client ID: SB12_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:40
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/18/21 09:17
Analyst: EK
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 02/17/21 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	45	J	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	740		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	34	J	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: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, 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	400		ug/kg	120	23.	1
Benzo(a)pyrene	440		ug/kg	160	50.	1
Benzo(b)fluoranthene	480		ug/kg	120	35.	1
Benzo(k)fluoranthene	180		ug/kg	120	33.	1
Chrysene	380		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	100	J	ug/kg	120	40.	1
Benzo(ghi)perylene	180		ug/kg	160	24.	1
Fluorene	50	J	ug/kg	210	20.	1
Phenanthrene	460		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	54	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	160	29.	1
Pyrene	630		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	37.	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	27	J	ug/kg	210	19.	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	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	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-04
Client ID: SB12_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 12:40
Date Received: 02/16/21
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	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	40	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	49		18-120

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-05 D

Date Collected: 02/16/21 13:20

Client ID: SB11_5-7

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 02/17/21 07:53

Analytical Date: 02/19/21 04:50

Analyst: EK

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	550	J	ug/kg	760	98.	5
1,2,4-Trichlorobenzene	ND		ug/kg	950	110	5
Hexachlorobenzene	ND		ug/kg	570	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	130	5
2-Chloronaphthalene	ND		ug/kg	950	94.	5
1,2-Dichlorobenzene	ND		ug/kg	950	170	5
1,3-Dichlorobenzene	ND		ug/kg	950	160	5
1,4-Dichlorobenzene	ND		ug/kg	950	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	950	250	5
2,4-Dinitrotoluene	ND		ug/kg	950	190	5
2,6-Dinitrotoluene	ND		ug/kg	950	160	5
Fluoranthene	9600		ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	950	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	950	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	95.	5
Hexachlorobutadiene	ND		ug/kg	950	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	860	120	5
Naphthalene	22000		ug/kg	950	120	5
Nitrobenzene	ND		ug/kg	860	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	950	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	950	330	5
Butyl benzyl phthalate	ND		ug/kg	950	240	5
Di-n-butylphthalate	ND		ug/kg	950	180	5
Di-n-octylphthalate	ND		ug/kg	950	320	5

Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05 D

Date Collected: 02/16/21 13:20

Client ID: SB11_5-7

Date Received: 02/16/21

Sample Location: QUEENS, 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	950	88.	5
Dimethyl phthalate	ND		ug/kg	950	200	5
Benzo(a)anthracene	5400		ug/kg	570	110	5
Benzo(a)pyrene	4500		ug/kg	760	230	5
Benzo(b)fluoranthene	7000		ug/kg	570	160	5
Benzo(k)fluoranthene	2000		ug/kg	570	150	5
Chrysene	5800		ug/kg	570	99.	5
Acenaphthylene	1800		ug/kg	760	150	5
Anthracene	2100		ug/kg	570	180	5
Benzo(ghi)perylene	3200		ug/kg	760	110	5
Fluorene	3000		ug/kg	950	92.	5
Phenanthrene	8000		ug/kg	570	120	5
Dibenzo(a,h)anthracene	830		ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	3200		ug/kg	760	130	5
Pyrene	10000		ug/kg	570	94.	5
Biphenyl	980	J	ug/kg	2200	220	5
4-Chloroaniline	ND		ug/kg	950	170	5
2-Nitroaniline	ND		ug/kg	950	180	5
3-Nitroaniline	ND		ug/kg	950	180	5
4-Nitroaniline	ND		ug/kg	950	390	5
Dibenzofuran	2400		ug/kg	950	90.	5
2-Methylnaphthalene	3900		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	950	99.	5
Acetophenone	340	J	ug/kg	950	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	950	140	5
2-Chlorophenol	ND		ug/kg	950	110	5
2,4-Dichlorophenol	ND		ug/kg	860	150	5
2,4-Dimethylphenol	ND		ug/kg	950	310	5
2-Nitrophenol	ND		ug/kg	2000	360	5
4-Nitrophenol	ND		ug/kg	1300	390	5
2,4-Dinitrophenol	ND		ug/kg	4600	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	320	J	ug/kg	950	140	5
2-Methylphenol	160	J	ug/kg	950	150	5
3-Methylphenol/4-Methylphenol	500	J	ug/kg	1400	150	5

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-05 D

Date Collected: 02/16/21 13:20

Client ID: SB11_5-7

Date Received: 02/16/21

Sample Location: QUEENS, 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	950	180	5
Benzoic Acid	ND		ug/kg	3100	960	5
Benzyl Alcohol	ND		ug/kg	950	290	5
Carbazole	770	J	ug/kg	950	92.	5
1,4-Dioxane	ND		ug/kg	140	44.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	73		18-120

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-06
Client ID: SB16_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:15
Date Received: 02/16/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/18/21 09:40
Analyst: EK
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 02/17/21 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	63	J	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	29.	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	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	1100		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	54	J	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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-06**Date Collected:** 02/16/21 14:15**Client ID:** SB16_3-5**Date Received:** 02/16/21**Sample Location:** QUEENS, 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	46.	1
Benzo(a)anthracene	580		ug/kg	130	24.	1
Benzo(a)pyrene	780		ug/kg	170	53.	1
Benzo(b)fluoranthene	820		ug/kg	130	36.	1
Benzo(k)fluoranthene	300		ug/kg	130	35.	1
Chrysene	540		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	100	J	ug/kg	130	42.	1
Benzo(ghi)perylene	420		ug/kg	170	26.	1
Fluorene	43	J	ug/kg	220	21.	1
Phenanthrene	500		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	90	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	440		ug/kg	170	30.	1
Pyrene	980		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	31	J	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	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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-06
Client ID: SB16_3-5
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:15
Date Received: 02/16/21
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	30	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	51		18-120

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-07
 Client ID: MW05_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 02/18/21 07:59
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 02/17/21 10:38

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	2.2	J	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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-07
 Client ID: MW05_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	20.		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	58		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	75		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
Client ID: MW05_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 17:19
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 11:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	10		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	3.8		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	6.7		ug/l	0.10	0.05	1
Benzo(a)anthracene	1.5		ug/l	0.10	0.02	1
Benzo(a)pyrene	1.3		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	1.2		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.38		ug/l	0.10	0.01	1
Chrysene	2.2		ug/l	0.10	0.01	1
Acenaphthylene	11		ug/l	0.10	0.01	1
Anthracene	7.8		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.97		ug/l	0.10	0.01	1
Fluorene	30		ug/l	0.10	0.01	1
Phenanthrene	40		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.19		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.75		ug/l	0.10	0.01	1
Pyrene	12		ug/l	0.10	0.02	1
2-Methylnaphthalene	58		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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
Client ID: MW05_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
Date Received: 02/16/21
Field Prep: Refer to COC

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	50		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	104		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-08
Client ID: MW11_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/18/21 04:09
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 10:38

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-08
 Client ID: MW11_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	58		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	69		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-08
Client ID: MW11_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 17:38
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 11:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.38		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.84		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.48		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.30		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.31		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.34		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.15		ug/l	0.10	0.01	1
Chrysene	0.26		ug/l	0.10	0.01	1
Acenaphthylene	0.18		ug/l	0.10	0.01	1
Anthracene	0.26		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.22		ug/l	0.10	0.01	1
Fluorene	0.46		ug/l	0.10	0.01	1
Phenanthrene	1.1		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.25		ug/l	0.10	0.01	1
Pyrene	0.72		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.27		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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-08
Client ID: MW11_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
Date Received: 02/16/21
Field Prep: Refer to COC

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	52		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	125	Q	23-120
2-Fluorobiphenyl	105		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	119		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-09
Client ID: SOFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/18/21 02:01
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 10:38

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-09**Date Collected:** 02/16/21 15:07**Client ID:** SOFB01_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**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	46		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	70		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-09
Client ID: SOFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/22/21 11:43
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 02/20/21 15:29

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-09**Date Collected:** 02/16/21 15:07**Client ID:** SOFB01_021621**Date Received:** 02/16/21**Sample Location:** QUEENS, NY**Field Prep:** Refer to COC**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	52		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	84		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-10
Client ID: GWFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/18/21 20:47
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 10:38

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-10
 Client ID: GWFB01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	41		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	78		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-10
Client ID: GWFB01_021621
Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
Date Received: 02/16/21
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/19/21 18:15
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 11:14

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: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-10
 Client ID: GWFB01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:07
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	33		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	101		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 23:53
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07-10 Batch: WG1465472-1					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 23:53
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07-10 Batch: WG1465472-1					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/17/21 23:53
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07-10 Batch: WG1465472-1					
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	76		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	81		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/17/21 18:53
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 02/17/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,07-08,10 Batch: WG1465474-1					
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	0.02	J	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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 02/17/21 18:53
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 02/17/21 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,07-08,10 Batch: WG1465474-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	111		41-149

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/18/21 00:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/17/21 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG1465559-1					
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	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/18/21 00:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/17/21 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG1465559-1					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/18/21 00:13
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/17/21 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG1465559-1					
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.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	86		18-120

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/20/21 15:00
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 02/20/21 00:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1466587-1					
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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 02/20/21 15:00
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 02/20/21 00:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1466587-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	124	Q	23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	111		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07-10 Batch: WG1465472-2 WG1465472-3								
Acenaphthene	88		82		37-111	7		30
1,2,4-Trichlorobenzene	83		79		39-98	5		30
Hexachlorobenzene	106		88		40-140	19		30
Bis(2-chloroethyl)ether	82		77		40-140	6		30
2-Chloronaphthalene	90		81		40-140	11		30
1,2-Dichlorobenzene	82		75		40-140	9		30
1,3-Dichlorobenzene	81		75		40-140	8		30
1,4-Dichlorobenzene	80		73		36-97	9		30
3,3'-Dichlorobenzidine	80		65		40-140	21		30
2,4-Dinitrotoluene	107		98		48-143	9		30
2,6-Dinitrotoluene	101		94		40-140	7		30
Fluoranthene	95		86		40-140	10		30
4-Chlorophenyl phenyl ether	97		90		40-140	7		30
4-Bromophenyl phenyl ether	100		90		40-140	11		30
Bis(2-chloroisopropyl)ether	70		65		40-140	7		30
Bis(2-chloroethoxy)methane	89		82		40-140	8		30
Hexachlorobutadiene	83		76		40-140	9		30
Hexachlorocyclopentadiene	74		68		40-140	8		30
Hexachloroethane	81		75		40-140	8		30
Isophorone	89		84		40-140	6		30
Naphthalene	86		76		40-140	12		30
Nitrobenzene	89		82		40-140	8		30
NDPA/DPA	102		88		40-140	15		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07-10 Batch: WG1465472-2 WG1465472-3								
n-Nitrosodi-n-propylamine	92		84		29-132	9		30
Bis(2-ethylhexyl)phthalate	110		97		40-140	13		30
Butyl benzyl phthalate	105		94		40-140	11		30
Di-n-butylphthalate	94		88		40-140	7		30
Di-n-octylphthalate	120		105		40-140	13		30
Diethyl phthalate	110		101		40-140	9		30
Dimethyl phthalate	106		96		40-140	10		30
Benzo(a)anthracene	99		86		40-140	14		30
Benzo(a)pyrene	108		93		40-140	15		30
Benzo(b)fluoranthene	97		87		40-140	11		30
Benzo(k)fluoranthene	108		93		40-140	15		30
Chrysene	101		86		40-140	16		30
Acenaphthylene	91		82		45-123	10		30
Anthracene	98		88		40-140	11		30
Benzo(ghi)perylene	97		90		40-140	7		30
Fluorene	100		91		40-140	9		30
Phenanthrene	94		86		40-140	9		30
Dibenzo(a,h)anthracene	102		89		40-140	14		30
Indeno(1,2,3-cd)pyrene	98		90		40-140	9		30
Pyrene	93		84		26-127	10		30
Biphenyl	92		84		40-140	9		30
4-Chloroaniline	68		40		40-140	52	Q	30
2-Nitroaniline	104		97		52-143	7		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07-10 Batch: WG1465472-2 WG1465472-3								
3-Nitroaniline	85		78		25-145	9		30
4-Nitroaniline	100		88		51-143	13		30
Dibenzofuran	96		87		40-140	10		30
2-Methylnaphthalene	89		80		40-140	11		30
1,2,4,5-Tetrachlorobenzene	88		82		2-134	7		30
Acetophenone	91		84		39-129	8		30
2,4,6-Trichlorophenol	99		88		30-130	12		30
p-Chloro-m-cresol	103	Q	92		23-97	11		30
2-Chlorophenol	91		84		27-123	8		30
2,4-Dichlorophenol	94		94		30-130	0		30
2,4-Dimethylphenol	84		77		30-130	9		30
2-Nitrophenol	95		89		30-130	7		30
4-Nitrophenol	110	Q	96	Q	10-80	14		30
2,4-Dinitrophenol	106		100		20-130	6		30
4,6-Dinitro-o-cresol	105		97		20-164	8		30
Pentachlorophenol	103		89		9-103	15		30
Phenol	70		64		12-110	9		30
2-Methylphenol	85		80		30-130	6		30
3-Methylphenol/4-Methylphenol	92		84		30-130	9		30
2,4,5-Trichlorophenol	102		94		30-130	8		30
Benzoic Acid	73		98		10-164	29		30
Benzyl Alcohol	85		80		26-116	6		30
Carbazole	97		86		55-144	12		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07-10 Batch: WG1465472-2 WG1465472-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		76		21-120
Phenol-d6	72		66		10-120
Nitrobenzene-d5	93		80		23-120
2-Fluorobiphenyl	87		80		15-120
2,4,6-Tribromophenol	107		98		10-120
4-Terphenyl-d14	88		77		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,07-08,10 Batch: WG1465474-2 WG1465474-3								
Acenaphthene	80		81		40-140	1		40
2-Chloronaphthalene	92		94		40-140	2		40
Fluoranthene	104		108		40-140	4		40
Hexachlorobutadiene	86		88		40-140	2		40
Naphthalene	81		82		40-140	1		40
Benzo(a)anthracene	100		102		40-140	2		40
Benzo(a)pyrene	120		119		40-140	1		40
Benzo(b)fluoranthene	96		101		40-140	5		40
Benzo(k)fluoranthene	110		112		40-140	2		40
Chrysene	98		98		40-140	0		40
Acenaphthylene	102		107		40-140	5		40
Anthracene	99		100		40-140	1		40
Benzo(ghi)perylene	108		104		40-140	4		40
Fluorene	89		93		40-140	4		40
Phenanthrene	87		89		40-140	2		40
Dibenzo(a,h)anthracene	117		114		40-140	3		40
Indeno(1,2,3-cd)pyrene	111		108		40-140	3		40
Pyrene	107		109		40-140	2		40
2-Methylnaphthalene	87		89		40-140	2		40
Pentachlorophenol	124		126		40-140	2		40
Hexachlorobenzene	82		85		40-140	4		40
Hexachloroethane	86		89		40-140	3		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107477**Report Date:** 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,07-08,10 Batch: WG1465474-2 WG1465474-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		72		21-120
Phenol-d6	67		67		10-120
Nitrobenzene-d5	118		127	Q	23-120
2-Fluorobiphenyl	94		96		15-120
2,4,6-Tribromophenol	118		117		10-120
4-Terphenyl-d14	108		113		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG1465559-2 WG1465559-3								
Acenaphthene	69		72		31-137	4		50
1,2,4-Trichlorobenzene	78		80		38-107	3		50
Hexachlorobenzene	91		98		40-140	7		50
Bis(2-chloroethyl)ether	67		68		40-140	1		50
2-Chloronaphthalene	80		84		40-140	5		50
1,2-Dichlorobenzene	67		70		40-140	4		50
1,3-Dichlorobenzene	67		68		40-140	1		50
1,4-Dichlorobenzene	67		68		28-104	1		50
3,3'-Dichlorobenzidine	67		70		40-140	4		50
2,4-Dinitrotoluene	90		98		40-132	9		50
2,6-Dinitrotoluene	83		89		40-140	7		50
Fluoranthene	73		79		40-140	8		50
4-Chlorophenyl phenyl ether	81		84		40-140	4		50
4-Bromophenyl phenyl ether	89		93		40-140	4		50
Bis(2-chloroisopropyl)ether	45		47		40-140	4		50
Bis(2-chloroethoxy)methane	73		76		40-117	4		50
Hexachlorobutadiene	77		79		40-140	3		50
Hexachlorocyclopentadiene	83		88		40-140	6		50
Hexachloroethane	66		68		40-140	3		50
Isophorone	72		76		40-140	5		50
Naphthalene	68		71		40-140	4		50
Nitrobenzene	66		70		40-140	6		50
NDPA/DPA	78		83		36-157	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG1465559-2 WG1465559-3								
n-Nitrosodi-n-propylamine	73		77		32-121	5		50
Bis(2-ethylhexyl)phthalate	100		101		40-140	1		50
Butyl benzyl phthalate	80		86		40-140	7		50
Di-n-butylphthalate	94		97		40-140	3		50
Di-n-octylphthalate	100		101		40-140	1		50
Diethyl phthalate	87		90		40-140	3		50
Dimethyl phthalate	87		91		40-140	4		50
Benzo(a)anthracene	76		80		40-140	5		50
Benzo(a)pyrene	98		102		40-140	4		50
Benzo(b)fluoranthene	85		90		40-140	6		50
Benzo(k)fluoranthene	88		90		40-140	2		50
Chrysene	76		80		40-140	5		50
Acenaphthylene	77		80		40-140	4		50
Anthracene	74		78		40-140	5		50
Benzo(ghi)perylene	75		79		40-140	5		50
Fluorene	76		81		40-140	6		50
Phenanthrene	70		72		40-140	3		50
Dibenzo(a,h)anthracene	79		83		40-140	5		50
Indeno(1,2,3-cd)pyrene	76		81		40-140	6		50
Pyrene	71		77		35-142	8		50
Biphenyl	81		85		37-127	5		50
4-Chloroaniline	54		65		40-140	18		50
2-Nitroaniline	81		88		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG1465559-2 WG1465559-3								
3-Nitroaniline	57		58		26-129	2		50
4-Nitroaniline	78		87		41-125	11		50
Dibenzofuran	74		77		40-140	4		50
2-Methylnaphthalene	74		76		40-140	3		50
1,2,4,5-Tetrachlorobenzene	87		90		40-117	3		50
Acetophenone	84		89		14-144	6		50
2,4,6-Trichlorophenol	88		94		30-130	7		50
p-Chloro-m-cresol	77		83		26-103	8		50
2-Chlorophenol	72		76		25-102	5		50
2,4-Dichlorophenol	82		86		30-130	5		50
2,4-Dimethylphenol	74		78		30-130	5		50
2-Nitrophenol	85		90		30-130	6		50
4-Nitrophenol	70		80		11-114	13		50
2,4-Dinitrophenol	76		85		4-130	11		50
4,6-Dinitro-o-cresol	82		91		10-130	10		50
Pentachlorophenol	95		105		17-109	10		50
Phenol	65		69		26-90	6		50
2-Methylphenol	69		74		30-130.	7		50
3-Methylphenol/4-Methylphenol	70		74		30-130	6		50
2,4,5-Trichlorophenol	88		95		30-130	8		50
Benzoic Acid	59		72		10-110	20		50
Benzyl Alcohol	73		77		40-140	5		50
Carbazole	72		78		54-128	8		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG1465559-2 WG1465559-3								
1,4-Dioxane	46		51		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		70		25-120
Phenol-d6	65		67		10-120
Nitrobenzene-d5	68		71		23-120
2-Fluorobiphenyl	77		79		30-120
2,4,6-Tribromophenol	103		109		10-136
4-Terphenyl-d14	78		82		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1466587-2 WG1466587-3								
Acenaphthene	75		80		40-140	6		40
2-Chloronaphthalene	83		91		40-140	9		40
Fluoranthene	100		104		40-140	4		40
Hexachlorobutadiene	87		92		40-140	6		40
Naphthalene	76		82		40-140	8		40
Benzo(a)anthracene	90		93		40-140	3		40
Benzo(a)pyrene	94		115		40-140	20		40
Benzo(b)fluoranthene	89		90		40-140	1		40
Benzo(k)fluoranthene	106		112		40-140	6		40
Chrysene	96		102		40-140	6		40
Acenaphthylene	97		103		40-140	6		40
Anthracene	96		99		40-140	3		40
Benzo(ghi)perylene	96		102		40-140	6		40
Fluorene	85		89		40-140	5		40
Phenanthrene	82		85		40-140	4		40
Dibenzo(a,h)anthracene	105		109		40-140	4		40
Indeno(1,2,3-cd)pyrene	97		102		40-140	5		40
Pyrene	103		107		40-140	4		40
2-Methylnaphthalene	80		86		40-140	7		40
Pentachlorophenol	114		120		40-140	5		40
Hexachlorobenzene	80		83		40-140	4		40
Hexachloroethane	88		94		40-140	7		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107477**Report Date:** 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1466587-2 WG1466587-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		67		21-120
Phenol-d6	60		68		10-120
Nitrobenzene-d5	115		123	Q	23-120
2-Fluorobiphenyl	89		95		15-120
2,4,6-Tribromophenol	106		111		10-120
4-Terphenyl-d14	103		106		41-149

METALS

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-01
 Client ID: MW02_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	1.34		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Antimony, Total	0.00356	J	mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00328		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Barium, Total	0.09509		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00014	J	mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Calcium, Total	35.2		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Chromium, Total	0.01050		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00144		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Copper, Total	0.02731		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Iron, Total	4.42		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Lead, Total	0.2337		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Magnesium, Total	40.2		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Manganese, Total	0.2120		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Mercury, Total	0.00084		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:25	EPA 7470A	1,7470A	NB
Nickel, Total	0.00325		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Potassium, Total	24.1		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Silver, Total	0.00016	J	mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Sodium, Total	111.		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Thallium, Total	0.00021	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Vanadium, Total	0.01833		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Zinc, Total	0.04703		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:30	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0109		mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00141		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.05854		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-01
 Client ID: MW02_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 09:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Calcium, Dissolved	34.7		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00325		mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Iron, Dissolved	1.55		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	47.0		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.1959		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 12:54	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Potassium, Dissolved	23.8		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Sodium, Dissolved	93.8		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00562		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 19:20	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	2.25		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Antimony, Total	0.00187	J	mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00917		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Barium, Total	0.1478		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00016	J	mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00027		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Calcium, Total	82.6		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Chromium, Total	0.00708		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00222		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Copper, Total	0.05155		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Iron, Total	4.91		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Lead, Total	0.1339		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Magnesium, Total	13.1		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Manganese, Total	0.1380		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Mercury, Total	0.00291		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:35	EPA 7470A	1,7470A	NB
Nickel, Total	0.00700		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Potassium, Total	26.6		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Sodium, Total	50.7		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Thallium, Total	0.00018	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00904		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Zinc, Total	0.08464		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:35	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00916	J	mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00210		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.09986		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-02
 Client ID: MW01_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 11:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Calcium, Dissolved	80.0		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00027	J	mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.226		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	12.3		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.09610		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 13:04	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Potassium, Dissolved	25.6		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Sodium, Dissolved	42.0		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 19:25	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-03
 Client ID: MW12_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	11.5		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Antimony, Total	0.00144	J	mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Arsenic, Total	0.02094		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Barium, Total	0.4108		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00094		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00056		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Calcium, Total	136.		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Chromium, Total	0.04647		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Cobalt, Total	0.01442		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Copper, Total	0.06413		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Iron, Total	44.7		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Lead, Total	0.2180		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Magnesium, Total	26.3		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Manganese, Total	2.250		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Mercury, Total	0.00026		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:38	EPA 7470A	1,7470A	NB
Nickel, Total	0.02802		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Potassium, Total	14.1		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Selenium, Total	0.00564		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Silver, Total	0.00016	J	mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Sodium, Total	132.		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Thallium, Total	0.00031	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Vanadium, Total	0.04656		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Zinc, Total	0.2253		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:40	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00425	J	mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00094	J	mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.01711		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1719		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-03
 Client ID: MW12_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 13:30
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Calcium, Dissolved	122.		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00035	J	mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Iron, Dissolved	15.6		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	19.5		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Manganese, Dissolved	1.916		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 13:07	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00191	J	mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Potassium, Dissolved	12.0		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Selenium, Dissolved	0.00238	J	mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Sodium, Dissolved	111.		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.00787	J	mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 19:30	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-04

Date Collected: 02/16/21 12:40

Client ID: SB12_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

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	5270		mg/kg	9.52	2.57	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Antimony, Total	1.10	J	mg/kg	4.76	0.362	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Arsenic, Total	3.90		mg/kg	0.952	0.198	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Barium, Total	63.9		mg/kg	0.952	0.166	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Beryllium, Total	0.200	J	mg/kg	0.476	0.031	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Cadmium, Total	0.333	J	mg/kg	0.952	0.093	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Calcium, Total	3250		mg/kg	9.52	3.33	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Chromium, Total	10.0		mg/kg	0.952	0.091	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Cobalt, Total	5.49		mg/kg	1.90	0.158	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Copper, Total	18.4		mg/kg	0.952	0.246	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Iron, Total	9340		mg/kg	4.76	0.860	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Lead, Total	47.6		mg/kg	4.76	0.255	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Magnesium, Total	1180		mg/kg	9.52	1.47	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Manganese, Total	126		mg/kg	0.952	0.151	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Mercury, Total	0.369		mg/kg	0.079	0.052	1	02/18/21 07:40	02/19/21 17:09	EPA 7471B	1,7471B	NB
Nickel, Total	11.4		mg/kg	2.38	0.230	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Potassium, Total	419		mg/kg	238	13.7	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Selenium, Total	1.40	J	mg/kg	1.90	0.246	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.952	0.270	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Sodium, Total	223		mg/kg	190	3.00	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Thallium, Total	0.324	J	mg/kg	1.90	0.300	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Vanadium, Total	17.2		mg/kg	0.952	0.193	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV
Zinc, Total	80.2		mg/kg	4.76	0.279	2	02/18/21 05:10	02/18/21 19:38	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-05

Date Collected: 02/16/21 13:20

Client ID: SB11_5-7

Date Received: 02/16/21

Sample Location: QUEENS, 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	2730		mg/kg	9.11	2.46	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Antimony, Total	2.00	J	mg/kg	4.56	0.346	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Arsenic, Total	10.1		mg/kg	0.911	0.190	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Barium, Total	86.4		mg/kg	0.911	0.158	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Beryllium, Total	0.064	J	mg/kg	0.456	0.030	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Cadmium, Total	1.05		mg/kg	0.911	0.089	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Calcium, Total	4790		mg/kg	9.11	3.19	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Chromium, Total	12.1		mg/kg	0.911	0.088	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Cobalt, Total	6.55		mg/kg	1.82	0.151	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Copper, Total	155		mg/kg	0.911	0.235	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Iron, Total	8810		mg/kg	4.56	0.823	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Lead, Total	234		mg/kg	4.56	0.244	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Magnesium, Total	1440		mg/kg	9.11	1.40	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Manganese, Total	102		mg/kg	0.911	0.145	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Mercury, Total	1.09		mg/kg	0.073	0.047	1	02/18/21 07:40	02/19/21 17:12	EPA 7471B	1,7471B	NB
Nickel, Total	21.9		mg/kg	2.28	0.220	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Potassium, Total	345		mg/kg	228	13.1	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Selenium, Total	1.54	J	mg/kg	1.82	0.235	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Silver, Total	0.310	J	mg/kg	0.911	0.258	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Sodium, Total	216		mg/kg	182	2.87	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.82	0.287	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Vanadium, Total	34.3		mg/kg	0.911	0.185	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV
Zinc, Total	233		mg/kg	4.56	0.267	2	02/18/21 05:10	02/18/21 19:42	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-06

Date Collected: 02/16/21 14:15

Client ID: SB16_3-5

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4320		mg/kg	10.4	2.80	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Antimony, Total	2.62	J	mg/kg	5.19	0.395	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Arsenic, Total	23.6		mg/kg	1.04	0.216	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Barium, Total	111		mg/kg	1.04	0.181	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Beryllium, Total	0.343	J	mg/kg	0.519	0.034	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Cadmium, Total	0.675	J	mg/kg	1.04	0.102	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Calcium, Total	2260		mg/kg	10.4	3.64	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Chromium, Total	11.1		mg/kg	1.04	0.100	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Cobalt, Total	11.7		mg/kg	2.08	0.172	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Copper, Total	78.5		mg/kg	1.04	0.268	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Iron, Total	22000		mg/kg	5.19	0.938	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Lead, Total	446		mg/kg	5.19	0.278	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Magnesium, Total	559		mg/kg	10.4	1.60	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Manganese, Total	107		mg/kg	1.04	0.165	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Mercury, Total	4.56		mg/kg	0.419	0.273	5	02/18/21 07:40	02/19/21 18:31	EPA 7471B	1,7471B	NB
Nickel, Total	13.8		mg/kg	2.60	0.251	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Potassium, Total	520		mg/kg	260	15.0	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Selenium, Total	5.15		mg/kg	2.08	0.268	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Silver, Total	0.416	J	mg/kg	1.04	0.294	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Sodium, Total	565		mg/kg	208	3.27	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.08	0.327	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Vanadium, Total	19.9		mg/kg	1.04	0.211	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV
Zinc, Total	268		mg/kg	5.19	0.304	2	02/18/21 05:10	02/18/21 19:47	EPA 3050B	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
 Client ID: MW05_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	23.2		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Antimony, Total	0.00265	J	mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Arsenic, Total	0.05496		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Barium, Total	1.113		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00179		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00247		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Calcium, Total	127.		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Chromium, Total	0.09891		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Cobalt, Total	0.02922		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Copper, Total	1.237		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Iron, Total	77.0		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Lead, Total	6.776		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Magnesium, Total	47.6		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Manganese, Total	0.9770		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Mercury, Total	0.00312		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:41	EPA 7470A	1,7470A	NB
Nickel, Total	0.06104		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Potassium, Total	20.2		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Selenium, Total	0.00893		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Silver, Total	0.00274		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Sodium, Total	122.		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Thallium, Total	0.00057	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Vanadium, Total	0.09232		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Zinc, Total	1.083		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:45	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00125	J	mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00980		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.2483		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-07
 Client ID: MW05_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 14:45
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Calcium, Dissolved	63.1		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00123		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00079	J	mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Iron, Dissolved	10.4		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Lead, Dissolved	0.00082	J	mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	20.8		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.2059		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 13:10	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00293		mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Potassium, Dissolved	16.6		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Sodium, Dissolved	100.		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00017	J	mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.00646	J	mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 20:34	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-08
 Client ID: MW11_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
 Date Received: 02/16/21
 Field Prep: Refer to COC

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	1.71		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Antimony, Total	0.00049	J	mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00501		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Barium, Total	0.2647		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Calcium, Total	72.6		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Chromium, Total	0.00699		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00166		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Copper, Total	0.01565		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Iron, Total	17.8		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Lead, Total	0.03093		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Magnesium, Total	16.3		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Manganese, Total	0.7695		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Mercury, Total	0.00039		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:44	EPA 7470A	1,7470A	NB
Nickel, Total	0.00434		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Potassium, Total	40.7		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Sodium, Total	96.1		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00599		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Zinc, Total	0.03610		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:50	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00388	J	mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00046	J	mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00338		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.2293		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-08
 Client ID: MW11_021621
 Sample Location: QUEENS, NY

Date Collected: 02/16/21 15:05
 Date Received: 02/16/21
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Calcium, Dissolved	70.8		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00020	J	mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00018	J	mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00044	J	mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Iron, Dissolved	14.3		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	17.9		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.7479		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 13:14	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00096	J	mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Potassium, Dissolved	37.2		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Sodium, Dissolved	76.8		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 20:39	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-09

Date Collected: 02/16/21 15:07

Client ID: SOFB01_021621

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Barium, Total	0.00020	J	mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Calcium, Total	0.0493	J	mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Copper, Total	0.00064	J	mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Manganese, Total	ND		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:48	EPA 7470A	1,7470A	NB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Sodium, Total	0.264		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:15	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

SAMPLE RESULTS

Lab ID: L2107477-10

Date Collected: 02/16/21 15:07

Client ID: GWFB01_021621

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

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	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Barium, Total	0.00018	J	mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Calcium, Total	0.0436	J	mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Manganese, Total	ND		mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:51	EPA 7470A	1,7470A	NB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Sodium, Total	0.266		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:20	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.00022	J	mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**SAMPLE RESULTS**

Lab ID: L2107477-10

Date Collected: 02/16/21 15:07

Client ID: GWFB01_021621

Date Received: 02/16/21

Sample Location: QUEENS, NY

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Calcium, Dissolved	0.0402	J	mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 13:17	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Sodium, Dissolved	0.245		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 20:04	EPA 3005A	1,6020B	AM



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

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): 01-03,07-10 Batch: WG1465638-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Manganese, Total	0.00322	J	mg/l	0.00400	0.00044	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Thallium, Total	0.00026	J	mg/l	0.00100	0.00014	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	02/17/21 13:43	02/17/21 18:10	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	02/17/21 13:43	02/17/21 18:10	1,6020B	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): 01-03,07-10 Batch: WG1465642-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	02/17/21 13:48	02/18/21 20:08	1,7470A	NB



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03,07-08,10 Batch: WG1465644-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.150	0.0293	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	02/17/21 14:48	02/17/21 18:49	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2107477

Project Number: 170663101

Report Date: 02/22/21

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): 01-03,07-08,10 Batch: WG1465645-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	02/17/21 14:51	02/19/21 12:47	1,7470A	EW

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): 04-06 Batch: WG1465684-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Iron, Total	ND		mg/kg	2.00	0.361	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Manganese, Total	ND		mg/kg	0.400	0.064	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Sodium, Total	3.04	J	mg/kg	80.0	1.26	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Thallium, Total	0.136	J	mg/kg	0.800	0.126	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/18/21 05:10	02/18/21 18:19	1,6010D	BV

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21

Method Blank Analysis Batch Quality Control

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): 04-06 Batch: WG1465685-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	02/18/21 07:30	02/19/21 16:10	1,7471B	NB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-10 Batch: WG1465638-2								
Aluminum, Total	101		-		80-120	-		
Antimony, Total	80		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	99		-		80-120	-		
Cadmium, Total	101		-		80-120	-		
Calcium, Total	99		-		80-120	-		
Chromium, Total	95		-		80-120	-		
Cobalt, Total	96		-		80-120	-		
Copper, Total	95		-		80-120	-		
Iron, Total	94		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	103		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Nickel, Total	91		-		80-120	-		
Potassium, Total	107		-		80-120	-		
Selenium, Total	98		-		80-120	-		
Silver, Total	97		-		80-120	-		
Sodium, Total	110		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	96		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-10 Batch: WG1465638-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-10 Batch: WG1465642-2					
Mercury, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 Batch: WG1465644-2					
Aluminum, Dissolved	103	-	80-120	-	
Antimony, Dissolved	97	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	102	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	99	-	80-120	-	
Cobalt, Dissolved	97	-	80-120	-	
Copper, Dissolved	97	-	80-120	-	
Iron, Dissolved	97	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	106	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	93	-	80-120	-	
Potassium, Dissolved	107	-	80-120	-	
Selenium, Dissolved	106	-	80-120	-	
Silver, Dissolved	97	-	80-120	-	
Sodium, Dissolved	106	-	80-120	-	
Thallium, Dissolved	99	-	80-120	-	
Vanadium, Dissolved	99	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 Batch: WG1465644-2					
Zinc, Dissolved	104	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 Batch: WG1465645-2					
Mercury, Dissolved	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-06 Batch: WG1465684-2 SRM Lot Number: D109-540					
Aluminum, Total	84	-	50-150	-	
Antimony, Total	158	-	19-250	-	
Arsenic, Total	98	-	70-130	-	
Barium, Total	97	-	75-125	-	
Beryllium, Total	100	-	75-125	-	
Cadmium, Total	99	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	96	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	104	-	35-165	-	
Lead, Total	91	-	72-128	-	
Magnesium, Total	92	-	62-138	-	
Manganese, Total	93	-	74-126	-	
Nickel, Total	99	-	70-130	-	
Potassium, Total	90	-	59-141	-	
Selenium, Total	102	-	68-132	-	
Silver, Total	94	-	68-131	-	
Sodium, Total	104	-	35-165	-	
Thallium, Total	99	-	68-131	-	
Vanadium, Total	100	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-06 Batch: WG1465684-2 SRM Lot Number: D109-540					
Zinc, Total	96	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 04-06 Batch: WG1465685-2 SRM Lot Number: D109-540					
Mercury, Total	103	-	60-140	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 01-03,07-10 QC Batch ID: WG1465638-3 QC Sample: L2107347-01 Client ID: MS Sample												
Aluminum, Total	0.004J	2	1.87	94		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.3632	73	Q	-	-		75-125	-		20
Arsenic, Total	0.0005	0.12	0.1200	100		-	-		75-125	-		20
Barium, Total	0.0212	2	1.946	96		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04686	94		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05157	101		-	-		75-125	-		20
Calcium, Total	226	10	244	180	Q	-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1877	94		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4694	94		-	-		75-125	-		20
Copper, Total	ND	0.25	0.2339	94		-	-		75-125	-		20
Iron, Total	ND	1	0.921	92		-	-		75-125	-		20
Lead, Total	ND	0.51	0.4993	98		-	-		75-125	-		20
Magnesium, Total	31.9	10	47.3	154	Q	-	-		75-125	-		20
Manganese, Total	0.0242	0.5	0.4893	93		-	-		75-125	-		20
Nickel, Total	0.0055	0.5	0.4477	88		-	-		75-125	-		20
Potassium, Total	57.2	10	65.7	85		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.123	102		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04730	95		-	-		75-125	-		20
Sodium, Total	273	10	281	80		-	-		75-125	-		20
Thallium, Total	0.0003J	0.12	0.1164	97		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4817	96		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 01-03,07-10 QC Batch ID: WG1465638-3 QC Sample: L2107347-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4896	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-10 QC Batch ID: WG1465642-3 QC Sample: L2107490-03 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00457	92	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 01-03,07-08,10 QC Batch ID: WG1465644-3 QC Sample: L2107490-03 Client ID: MS Sample									
Aluminum, Dissolved	0.00336J	2	2.02	101	-	-	75-125	-	20
Antimony, Dissolved	0.00058J	0.5	0.4513	90	-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.1237	103	-	-	75-125	-	20
Barium, Dissolved	0.02574	2	2.034	100	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05234	105	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05208	102	-	-	75-125	-	20
Calcium, Dissolved	12.6	10	22.7	101	-	-	75-125	-	20
Chromium, Dissolved	0.00153	0.2	0.1952	97	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.4739	95	-	-	75-125	-	20
Copper, Dissolved	0.00052J	0.25	0.2370	95	-	-	75-125	-	20
Iron, Dissolved	ND	1	0.944	94	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5090	100	-	-	75-125	-	20
Magnesium, Dissolved	3.05	10	13.0	100	-	-	75-125	-	20
Manganese, Dissolved	0.02570	0.5	0.5029	95	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4574	91	-	-	75-125	-	20
Potassium, Dissolved	1.08	10	11.5	104	-	-	75-125	-	20
Selenium, Dissolved	0.00238J	0.12	0.128	107	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04834	97	-	-	75-125	-	20
Sodium, Dissolved	134.	10	170	360	Q	-	75-125	-	20
Thallium, Dissolved	0.00023J	0.12	0.1185	99	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4810	96	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 01-03,07-08,10 QC Batch ID: WG1465644-3 QC Sample: L2107490-03 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.5176	104	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 QC Batch ID: WG1465645-3 QC Sample: L2107477-01 Client ID: MW02_021621									
Mercury, Dissolved	ND	0.005	0.00474	95	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 04-06 QC Batch ID: WG1465684-3 QC Sample: L2107454-02 Client ID: MS Sample									
Aluminum, Total	7560	175	8530	553	Q	-	75-125	-	20
Antimony, Total	ND	43.9	40.6	92		-	75-125	-	20
Arsenic, Total	5.38	10.5	15.3	94		-	75-125	-	20
Barium, Total	26.9	175	206	102		-	75-125	-	20
Beryllium, Total	0.245J	4.39	4.58	104		-	75-125	-	20
Cadmium, Total	0.472J	4.47	4.53	101		-	75-125	-	20
Calcium, Total	1270	877	4500	368	Q	-	75-125	-	20
Chromium, Total	16.0	17.5	32.0	91		-	75-125	-	20
Cobalt, Total	5.44	43.9	43.4	86		-	75-125	-	20
Copper, Total	16.2	21.9	34.4	83		-	75-125	-	20
Iron, Total	20200	87.7	17400	0	Q	-	75-125	-	20
Lead, Total	9.75	44.7	48.5	87		-	75-125	-	20
Magnesium, Total	2280	877	3940	189	Q	-	75-125	-	20
Manganese, Total	216	43.9	238	50	Q	-	75-125	-	20
Nickel, Total	11.8	43.9	48.5	84		-	75-125	-	20
Potassium, Total	590	877	1760	133	Q	-	75-125	-	20
Selenium, Total	0.654J	10.5	10.6	101		-	75-125	-	20
Silver, Total	ND	26.3	24.8	94		-	75-125	-	20
Sodium, Total	50.0J	877	980	112		-	75-125	-	20
Thallium, Total	ND	10.5	9.52	90		-	75-125	-	20
Vanadium, Total	20.4	43.9	60.3	91		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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): 04-06			QC Batch ID: WG1465684-3		QC Sample: L2107454-02		Client ID: MS Sample		
Zinc, Total	37.0	43.9	73.5	83	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 04-06			QC Batch ID: WG1465685-3		QC Sample: L2107454-02		Client ID: MS Sample		
Mercury, Total	ND	0.146	0.152	104	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07-10 QC Batch ID: WG1465642-4 QC Sample: L2107490-03 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2107477

Report Date: 02/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 QC Batch ID: WG1465644-4 QC Sample: L2107490-03 Client ID: DUP Sample					
Aluminum, Dissolved	0.00336J	ND	mg/l	NC	20
Antimony, Dissolved	0.00058J	0.00101J	mg/l	NC	20
Arsenic, Dissolved	ND	0.00016J	mg/l	NC	20
Barium, Dissolved	0.02574	0.02434	mg/l	6	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	12.6	12.1	mg/l	4	20
Chromium, Dissolved	0.00153	0.00169	mg/l	10	20
Cobalt, Dissolved	ND	0.00016J	mg/l	NC	20
Copper, Dissolved	0.00052J	0.00443	mg/l	NC	20
Iron, Dissolved	ND	0.0233J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	3.05	2.90	mg/l	5	20
Manganese, Dissolved	0.02570	0.02452	mg/l	5	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	1.08	1.03	mg/l	5	20
Selenium, Dissolved	0.00238J	0.00220J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	134.	129	mg/l	4	20

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2107477
Report Date: 02/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 QC Batch ID: WG1465644-4 QC Sample: L2107490-03 Client ID: DUP Sample					
Thallium, Dissolved	0.00023J	0.00070J	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,07-08,10 QC Batch ID: WG1465645-4 QC Sample: L2107477-01 Client ID: MW02_021621					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2107477
Report Date: 02/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-06 QC Batch ID: WG1465684-4 QC Sample: L2107454-02 Client ID: DUP Sample					
Aluminum, Total	7560	8050	mg/kg	6	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	5.38	4.76	mg/kg	12	20
Barium, Total	26.9	29.6	mg/kg	10	20
Beryllium, Total	0.245J	0.172J	mg/kg	NC	20
Cadmium, Total	0.472J	0.380J	mg/kg	NC	20
Calcium, Total	1270	1340	mg/kg	5	20
Chromium, Total	16.0	14.8	mg/kg	8	20
Cobalt, Total	5.44	5.20	mg/kg	5	20
Copper, Total	16.2	15.9	mg/kg	2	20
Iron, Total	20200	16900	mg/kg	18	20
Lead, Total	9.75	9.08	mg/kg	7	20
Magnesium, Total	2280	2410	mg/kg	6	20
Manganese, Total	216	183	mg/kg	17	20
Nickel, Total	11.8	11.6	mg/kg	2	20
Potassium, Total	590	658	mg/kg	11	20
Selenium, Total	0.654J	0.606J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	50.0J	52.4J	mg/kg	NC	20

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2107477
Report Date: 02/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04-06 QC Batch ID: WG1465684-4 QC Sample: L2107454-02 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	20.4	19.2	mg/kg	6	20
Zinc, Total	37.0	34.6	mg/kg	7	20
Total Metals - Mansfield Lab Associated sample(s): 04-06 QC Batch ID: WG1465685-4 QC Sample: L2107454-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107477**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-04**Client ID:** SB12_3-5**Sample Location:** QUEENS, NY**Date Collected:** 02/16/21 12:40**Date Received:** 02/16/21**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	-	02/17/21 07:04	121,2540G	PR



Project Name: 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107477**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-05**Client ID:** SB11_5-7**Sample Location:** QUEENS, NY**Date Collected:** 02/16/21 13:20**Date Received:** 02/16/21**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	86.4		%	0.100	NA	1	-	02/17/21 07:04	121,2540G	PR



Project Name: 46-81 METROPOLITAN AVE**Project Number:** 170663101**Lab Number:** L2107477**Report Date:** 02/22/21**SAMPLE RESULTS****Lab ID:** L2107477-06**Client ID:** SB16_3-5**Sample Location:** QUEENS, NY**Date Collected:** 02/16/21 14:15**Date Received:** 02/16/21**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	75.2		%	0.100	NA	1	-	02/17/21 07:04	121,2540G	PR



Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2107477**Project Number:** 170663101**Report Date:** 02/22/21**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(*)
L2107477-01A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-01B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-01C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		FE-6020T(180),BA-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),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)
L2107477-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),PB-6020S(180),NI-6020S(180),TL-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2107477-01F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-01G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-02A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-02B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-02C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Serial_No:02222113:21
Lab Number: L2107477
Report Date: 02/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107477-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2107477-02E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		K-6020S(180),CU-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),NA-6020S(180),TL-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2107477-02F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-02G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-03A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-03B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-03C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		SE-6020T(180),FE-6020T(180),BA-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L2107477-03E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		CU-6020S(180),V-6020S(180),SE-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),BA-6020S(180),PB-6020S(180),NI-6020S(180),NA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2107477-03F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-03G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Serial_No: 02222113:21
Lab Number: L2107477
Report Date: 02/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107477-04A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2107477-04B	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2107477-04C	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2107477-04D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2107477-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),TL-Ti(180),NI-Ti(180),CR-Ti(180),AL-Ti(180),PB-Ti(180),CU-Ti(180),SB-Ti(180),ZN-Ti(180),SE-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),MG-Ti(180),MN-Ti(180),HG-T(28),CD-Ti(180),CA-Ti(180),K-Ti(180),NA-Ti(180)
L2107477-04F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14)
L2107477-04Y	Vial Water preserved split	A	NA		2.1	Y	Absent	19-FEB-21 10:51	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2107477-05A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2107477-05B	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14)
L2107477-05C	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14)
L2107477-05D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2107477-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),AL-Ti(180),PB-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),V-Ti(180),CO-Ti(180),MN-Ti(180),HG-T(28),FE-Ti(180),MG-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L2107477-05F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14)
L2107477-06A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2107477-06B	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14)
L2107477-06C	Vial water preserved	A	NA		2.1	Y	Absent	17-FEB-21 04:51	NYTCL-8260HLW(14)
L2107477-06D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2107477-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),AL-Ti(180),TL-Ti(180),SE-Ti(180),ZN-Ti(180),SB-Ti(180),CU-Ti(180),PB-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),MG-Ti(180),HG-T(28),MN-Ti(180),CA-Ti(180),K-Ti(180),NA-Ti(180),CD-Ti(180)
L2107477-06F	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14)
L2107477-07A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-07B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Serial_No: 02222113:21
Lab Number: L2107477
Report Date: 02/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107477-07C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-07D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-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),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2107477-07E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),MG-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),TL-6020S(180),NA-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2107477-07F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-07G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-08A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-08B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-08C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-08D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2107477-08E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),BA-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2107477-08F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Serial_No: 02222113:21
Lab Number: L2107477
Report Date: 02/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2107477-08G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-09A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-09B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-09C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-09D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2107477-09E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2107477-09F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-09G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-10A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-10B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-10C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2107477-10D	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CO-6020T(180)
L2107477-10E	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-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),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2107477-10F	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2107477-10G	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

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.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVE
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Data Qualifiers

- 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.

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2107477
Report Date: 02/22/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 18

Published Date: 2/16/2021 5:32:02 PM

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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, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** 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, SM4500CI-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, SM9222D.****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, EPA 537.1.****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.

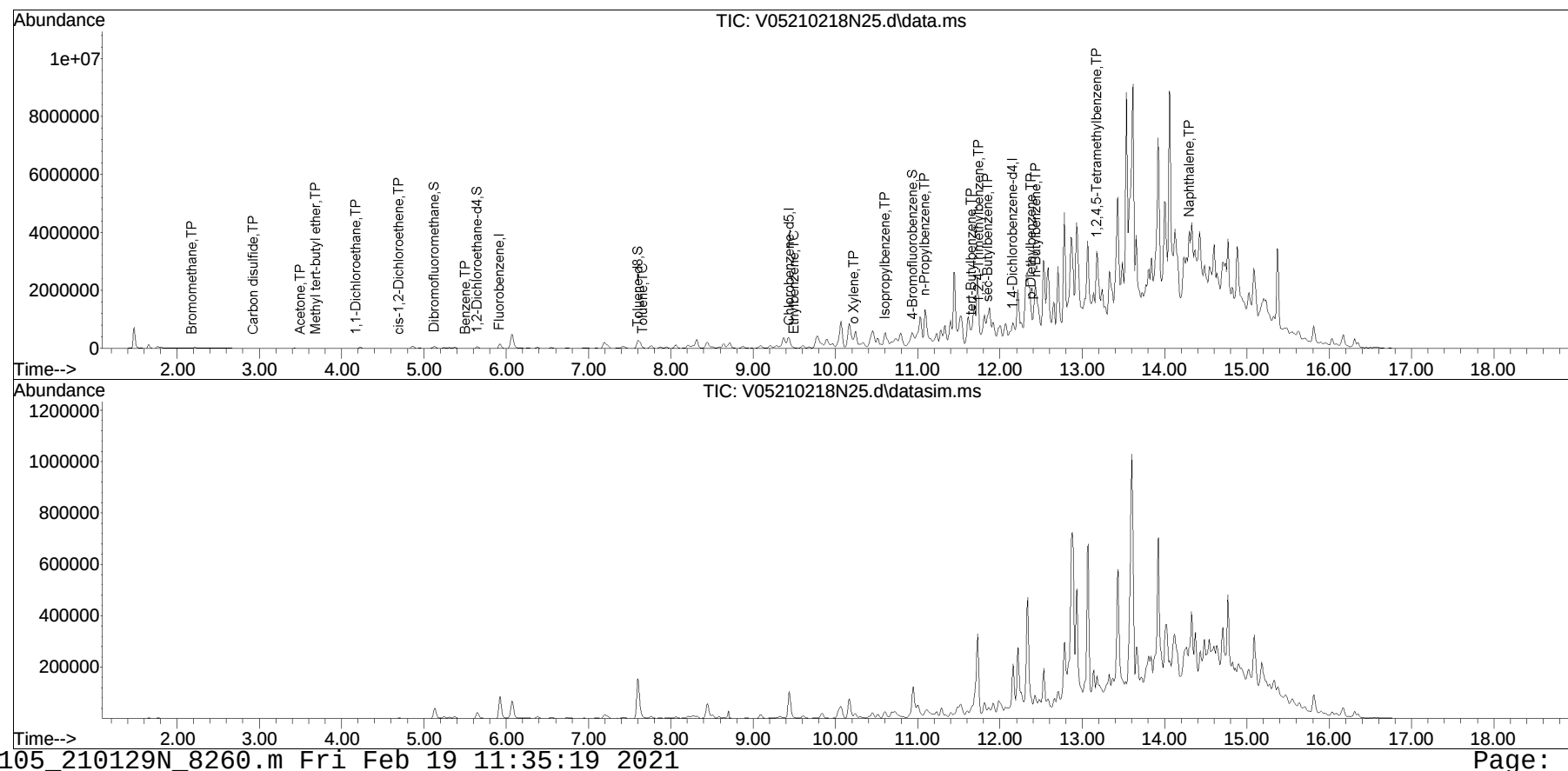
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 2/16/21		ALPHA Job # L2107477							
		Project Information Project Name: 46-81 Metropolitan Ave Project Location: Queens, NY Project # 170663101 (Use Project name as Project #) ☐		Deliverables ☒ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #									
Client Information Client: Langan Address: 21 Penn Plaza, 360 W 31st St, New York, NY 10001 Phone: Fax: P.McMahon@Langan.com Email: T.Golding@Langan.com		Project Manager: Paul McMahon ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other TCL ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:									
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Please also email data to datamanagement@Langan.com Please specify Metals or TAL.						ANALYSIS Part 375/TCL VOCs Part 375/TCL SVOCs TAL Metals		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)							
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Part 375/TCL VOCs Part 375/TCL SVOCs TAL Metals		Sample Specific Comments		Total Bottles	
07477-01		MW02-021621		2/16/21 0930		GW		MA		X X X					7
-02		MW01-021621		2/16/21 1130		GW		MA		X X X					7
-03		MW12-021621		2/16/21 1330		GW		MA		X X X					7
-04		SB12-3-5		2/16/21 1240		S		TZ		X X X					6
-05		SB11-5-7		2/16/21 1320		S		TZ		X X X					6
-06		SB16-3-5		2/16/21 1415		S		TZ		X X X					6
-07		MW05-021621		2/16/21 1445		GW		TZ		X X X					
-08		MW11-021621		2/16/21 1505		GW		MA		X X X					
-09		SOFB01-021621		2/16/21 1507		S		TZ		X X X					
-10		GWFB01-021621		2/16/21 1507		GW		TZ		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: Tyler Zorn		Date/Time: 02/16/21 1510		Received By: M. T. R. S. (AAL)		Date/Time: 2/16/21 1515									
Relinquished By: M. T. R. S.		Date/Time: 2/16/21 1800		Received By: J. R. S.		Date/Time: 2/16/21 20:00									
Relinquished By: J. R. S.		Date/Time: 2/16/21 23:40		Received By: J. R. S.		Date/Time: 2/16/21 2340									

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2021\210218N\
 Data File : V05210218N25.d
 Acq On : 19 Feb 2021 4:05 am
 Operator : VOA105:PD
 Sample : L2107477-07,31,10,10,,C,PRI
 Misc : WG1466439,ICAL17575 (Sig #1); WG,ICAL17575 (Sig #2)
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 19 10:31:25 2021
 Quant Method : I:\VOLATILES\VOA105\2021\210218N\V105_210129N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Feb 02 10:42:13 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10218N\V05210218N01.d•





ANALYTICAL REPORT

Lab Number:	L2109606
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Paul McMahon
Phone:	(212) 479-5429
Project Name:	46-81 METROPOLITAN AVE
Project Number:	170663101
Report Date:	03/03/21

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2109606-01	DRUM_01	SOIL	QUEENS, NY	02/26/21 12:20	02/26/21

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

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: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

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:

Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative

Date: 03/03/21

METALS

Project Name: 46-81 METROPOLITAN AVE**Lab Number:** L2109606**Project Number:** 170663101**Report Date:** 03/03/21**SAMPLE RESULTS**

Lab ID: L2109606-01

Date Collected: 02/26/21 12:20

Client ID: DRUM_01

Date Received: 02/26/21

Sample Location: QUEENS, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/28/21 01:29

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Barium, TCLP	0.902		mg/l	0.500	0.021	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Lead, TCLP	0.760		mg/l	0.500	0.027	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/02/21 08:30	03/02/21 21:31	EPA 7470A	1,7470A	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/02/21 10:10	03/02/21 23:45	EPA 3015	1,6010D	BV



Project Name: 46-81 METROPOLITAN AVE

Lab Number: L2109606

Project Number: 170663101

Report Date: 03/03/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1469375-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Barium, TCLP	ND		mg/l	0.500	0.021	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Selenium, TCLP	0.035	J	mg/l	0.500	0.035	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/02/21 09:10	03/02/21 22:22	1,6010D	BV

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/26/21 05:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1469377-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/02/21 08:30	03/02/21 20:31	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 02/26/21 05:28

Lab Control Sample Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE

Project Number: 170663101

Lab Number: L2109606

Report Date: 03/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1469375-2								
Arsenic, TCLP	97		-		75-125	-		20
Barium, TCLP	102		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	100		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
Selenium, TCLP	98		-		75-125	-		20
Silver, TCLP	97		-		75-125	-		20

TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1469377-2

Mercury, TCLP	97		-		80-120	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1469375-3 QC Sample: L2109261-02 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.19	99		-	-		75-125	-		20
Barium, TCLP	0.562	20	21.0	102		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.538	105		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.01	100		-	-		75-125	-		20
Lead, TCLP	0.033J	5.1	5.19	102		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.27	106		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.494	99		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1469377-3 QC Sample: L2109261-02 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0233	93		-	-		80-120	-		20

Project Name: 46-81 METROPOLITAN AVE
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Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2109606
Report Date: 03/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1469375-4 QC Sample: L2109261-02 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.562	0.573	mg/l	2		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.033J	0.035J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1469377-4 QC Sample: L2109261-02 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Serial_No:03032115:10
Lab Number: L2109606
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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(*)
L2109606-01A	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		-
L2109606-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2109606-01X9	Tumble Vessel	A	NA		3.9	Y	Absent		-

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

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.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 46-81 METROPOLITAN AVE
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Data Qualifiers

- 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.

Project Name: 46-81 METROPOLITAN AVE
Project Number: 170663101

Lab Number: L2109606
Report Date: 03/03/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 18

Published Date: 2/16/2021 5:32:02 PM

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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, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** 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, SM4500CI-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, SM9222D.****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, EPA 537.1.****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.

 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 2/26/21		ALPHA Job # L2109606	
		Project Information Project Name: 46-81 Metro Ave Project Location: Queens, NY Project # 170663101 (Use Project name as Project #) ☐		Deliverables ☒ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #			
Client Information Client: Langan Address: 21 Penn Plaza, 760 W 21st St, 8th Floor, New York, NY 10011 Phone: 212-479-5400 Fax: Email: jgolding@langan.com		Project Manager: Paul McMahon (pmcmahon@langan.com) ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:			
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)	
Other project specific requirements/comments: please also email datamanagement@langan.com						TOTAL BOTTLES		Sample Specific Comments	
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
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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.)	
				Relinquished By:		Date/Time		Received By:	
				P. Santos		02/26/21 13:30		D. Santos	
				2/26/21 16:45		2/26/21 16:45		2/26/21 16:45	
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