

1061 / 1063 ATLANTIC AVENUE
BROOKLYN, NEW YORK
BLOCK 2020, LOT 70

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1903-11)**

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**PHASE II ENVIRONMENTAL SITE ASSESSMENT
1061 / 1063 ATLANTIC AVENUE, BROOKLYN, NEW YORK**

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FIGURES

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FIGURE 2	Site Plan with Sampling Locations

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ACRONYM	DEFINITION
ASP	Analytical Services Protocol
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BCP	Brownfield Cleanup Program
CFR	Code of Federal Regulations
DER	Department of Environmental Remediation
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
ESA	Environmental Site Assessment
FDNY	Fire Department of New York City
FOIA	Freedom of Information Act
GPR	Ground Penetrating Radar
GQS	Groundwater Quality Standard
GV	Guidance Value
NGVD	National Geodetic Vertical Datum
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyl
PID	Photo-ionization Detector
ppm	Parts per million
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
RCRA	Resource Conservation and Recovery Act
RD	Radiodetection
REC	Recognized Environmental Condition
SCO	Soil Cleanup Objective
SVOC	Semi-volatile Organic Compound
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VISL	Vapor Intrusion Screening Level
VOC	Volatile Organic Compound



1.0 INTRODUCTION

Atlantic Brooklyn LLC (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 1061 / 1063 Atlantic Avenue, Brooklyn, New York. The purpose of the Phase II ESA was to further evaluate recognized environmental conditions (RECs) identified in the Phase I ESA to obtain sound, scientifically valid data concerning actual property conditions.

Work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-11 (Standard Practices for Environmental Site Assessment: Phase II Environmental Site Assessment Process) and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).



2.0 BACKGROUND

2.1 Site Description and Features

The subject property consists of one parcel located at 1061 / 1063 Atlantic Avenue in the Bedford-Stuyvesant Neighborhood of Brooklyn, New York. The subject property is located in Kings County. The property is identified in the New York City Tax Map as Block 2020, Lot 70.

A Site Location Map is included as **Figure 1** and a Site Plan is included as **Figure 2**.

The subject property measures approximately 0.16 acres and is occupied by one vacant two-story commercial / light industrial use building. The building is primarily slab on grade, with a partial vault basement underlying the southeastern corner. The building encompasses the entire lot.

2.2 Physical Setting

The topography of the subject property and surrounding area was reviewed from the United States Geological Survey (USGS) 7.5-minute series topographic map for the Brooklyn, New York quadrangle. The property elevation is approximately 85 feet above the National Geodetic Vertical Datum (NGVD). The approximate depth to groundwater at the subject property is 75 feet below surface grade.

2.3 Site History and Land Use

The subject property is currently a vacant building. The property appears to have been most recently used as a restaurant and trucking / shipping business. The building was primarily empty except for some kitchen equipment in the restaurant area.

Based on review of historical sources, the subject property was first developed sometime prior to 1888. The property was used for commercial and/or light industrial purposes from prior to 1888 to present. Historical uses included an auto repair and brake shop, office space, a church, and a variety of commercial usages. Historical usage of the subject property indicative of potential environmental concerns included usage as an auto repair shop / brake shop and as a contracting / maintenance facility.



2.4 Adjacent Property Land Use

The sites adjacent to the subject property are currently utilized as residential apartment buildings, a plumbing supply facility, an auto repair shop, a warehouse, and a commercial bar.

Based on review of historical sources, the area surrounding the subject property was first developed sometime prior to 1888. Development was primarily residential to the north, and commercial and/or light industrial to the east, west, and south from prior to 1888 until the present. Historical usage of the sites in the surrounding area indicative of potential environmental concerns included usage as auto repair shops, an industrial coal/lumber yard, and a transit depot.

2.5 Summary of Previous Assessments

2.5.1 Phase I Environmental Site Assessment Report (August 2020)

A Phase I ESA was prepared for the subject property in August of 2020 by PWGC. The Phase I ESA identified the following RECs associated with subject property.

- The subject property appears to have been historically used for light industrial purposes, including auto repair / brake shops, a coal / fuel oil company, and a contracting / maintenance facility, since at least 1928. These types of historical property usages are likely to have utilized and stored both hazardous substances and petroleum products. The building is currently unoccupied. Evidence of an active spill or release such as an open New York State Department of Environmental Conservation (NYSDEC) spill record or an unresolved Resource Conservation and Recovery Act (RCRA) violation was not identified. In addition, active pathways for such substances to potentially have been released to the environment such as floor drains or an onsite sanitary system were not identified. However, the site's historical industrial usage preceded the existence of both NYSDEC spill records and RCRA violations and the building at the property has been altered/redeveloped multiple times. Based on this information, the long-standing historical usage of the site for industrial purposes represents a REC.
- Fire Department of New York City (FDNY) tank records were acquired via a Freedom of Information Act (FOIA) request identifying that two 275-gallon #2 fuel oil tanks were located at 1061 Atlantic Avenue. The tanks were noted as being on floor "0," which PWGC believed was the ground floor; however, a partial basement has since been identified. The location of the tanks themselves (aboveground or underground) was not identified. The records were established in 1984 and last inspected in 1986. The



records say that the tank records are void as the site was converted to gas / other. No NYSDEC Petroleum Bulk Storage (PBS) registration was identified for the property and no spill records related to these tanks were identified for the property. In addition, no evidence of tanks was identified during the site reconnaissance inspection. However, out of service oil tanks can present a source of a release of petroleum products and no documentation was provided as to whether the tanks were appropriately abandoned and / or disposed of. Based on this information, PWGC believes that the historical fuel oil tanks represent a REC.

- Multiple nearby sites appear to have been historically used for industrial purposes, including auto repair shops, battery/welding company, a coal/lumber yard, and a transit depot, since at least 1928. The neighboring site to the east is also currently used as an auto repair garage with evidence of tanks. In addition, the neighbors to the north, west and east make up a single Brownfield Cleanup Program (BCP) site. The surrounding properties on Atlantic Avenue (lots 68, 73, 74, and 77) contain identified soil, groundwater, and soil vapor contamination. The main contaminants of concern are chlorinated solvents identified in all three media, historical urban fill material with semi-volatile organic compounds (SVOCs), and heavy metals identified in the soil. Based on this information, the historical and current usage of the nearby sites for industrial purposes and identified contamination (specifically with regards to lots that make up the BCP site) appears to represent a REC.

The Phase I ESA recommended that a Phase II ESA be performed at subject property. The Phase I ESA also identified the vault basement beneath the property that was inaccessible during the Phase I site reconnaissance as a data gap that should be addressed as part of the Phase II ESA.



3.0 WORK PERFORMED AND RATIONALE

3.1 Scope of Assessment

The Phase II ESA included the following tasks:

- Sidewalk Vault Investigation
- Geophysical Survey
- Soil Quality Evaluation
- Soil Vapor Quality Evaluation

3.2 Sidewalk Vault Investigation

On September 1, 2020, PWGC mobilized to the subject property to attempt to investigate a sidewalk vault present at the southeastern corner of the property along Atlantic Avenue that was not accessible during a Phase I site inspection; therefore, it was identified as a data gap.

The sidewalk vault was accessed by using an angle grinder to cut the welding on the steel plate that covered the vault basement's access point from the sidewalk. PWGC opened the steel plate and identified an approximately 25 foot long by 15 foot wide vault basement extending from the sidewalk under the southeastern section of the subject property. Once inside, PWGC identified multiple pieces of evidence indicative of the historical presence of petroleum storage, including a tank gauge and potential tank piping, but no actual tank.

Based on the identified evidence, PWGC determined that the vault basement warranted further subsurface investigation (to be addressed in subsequent sections).

3.3 Geophysical Survey

On September 1, 2020, PWGC and Enviroprobe Services, Inc. (Enviroprobe) of Mt. Laurel, New Jersey mobilized to the subject property to perform a geophysical survey. The purpose of the geophysical survey was to determine the absence/presence of subsurface anomalies at the subject property. Descriptions of the geophysical methods are described below.

3.3.1 Electromagnetic Survey

Enviroprobe utilized a Fisher TW-6 metallic locator electromagnetic (EM) instrument. The Fisher TW-6 metallic locator uses the principle of EM induction to measure the variability of electrical conductivity of subsurface



materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and geologic features. The large EM response to metal makes this technique particularly well suited to identifying buried metal objects such as underground storage tanks (USTs), metallic wastes, buried drums, pipelines, reinforced building foundations, and other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface.

A Radiodetection RD7000TX3 multi-frequency transmitter and a Radiodetection RD7000PXL receiver were utilized to further investigate metallic anomalies. The Radiodetection transmitter and receiver are commonly used for pipe and cable locating. The multi-frequency transmitter can be directly connected, clamped, or used to induce a signal in a target line while the multi-frequency receiver is used to measure the signal from energized lines.

3.3.2 Ground Penetrating Radar Survey

Following the electromagnetic survey, Enviroprobe utilized a GSSI UtilityScan HS cart-mounted Ground Penetrating Radar (GPR) unit with a 350 MHz antenna. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 2,000 MHz) to acquire subsurface information. An EM wave is propagated downward into the ground by a transmitting antenna. Where abrupt changes in electrical properties occur in the subsurface, a portion of the energy is reflected back to the surface. This reflected wave is detected by a receiver antenna and transmitted to a control unit for real time processing and display. The penetration depth of the GSSI unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands, and fine gravels. Clayey, highly saline or saturated soils, areas covered by concrete, foundry slag, or other highly conductive materials greatly reduce GPR penetration.

3.3.3 Survey Findings

The GPR and TW-6 were used in a grid pattern over PWGC specified areas of the subject property. Based on the results of the GPR and TW-6 surveys, no metallic anomalies were detected on site. In the vault basement area, an attempt was made to trace the suspected tank piping; however, the presence of a tank could not be confirmed. There was water on the basement floor, so Enviroprobe was unable to scan the floor of the vault



basement with the GPR. The TW-6 received multiple metallic responses in the vault basement, but the space was filled with various metal objects that may have been interfering with the instrumentation.

Some of the PWGC-selected areas contained numerous obstructions including debris, narrow walkways, and large puddles. These obstructions prevented a thorough investigation of the spaces beneath and immediately adjacent to them. In addition, due to wet surface conditions and the subsurface content, the GPR signal penetration was estimated at less than 2.5 ft in the majority of the survey area. Due to the limitations of the geophysical survey, PWGC cannot rule out the presence of USTs.

The complete Geophysical Survey, including further detail regarding the methodology and findings, is included in **Appendix A**.

3.4 Soil Quality Evaluation

To characterize soil quality, soil borings were installed throughout the subject property. Boring locations were focused in areas of potential concern as identified by the Phase I ESA, the sidewalk vault investigation, and geophysical survey. A total of ten soil borings were installed during the investigation, with seven borings advanced from the ground floor in slab on grade areas and three borings advanced from within the vault basement. Soil boring locations are illustrated on **Figure 2**.

3.4.1 Soil Boring Protocol

Coastal Environmental Solutions, Inc. (Coastal) of Bohemia, New York provided environmental drilling services during the investigation. A Geoprobe 54DT, a hammer drill, and hand tools were utilized to install the environmental soil borings. Prior to performing each soil boring, 10-mil polyethylene sheeting, sufficiently large to hold the anticipated number of soil cores was laid on the ground in the area where each soil boring was performed.

Soils were collected continuously from ground surface to an approximate depth of 10 feet below surface grade for the seven borings (SB001 through SB007) advanced from the ground floor via Geoprobe and an approximate depth of 4 feet below surface grade (or 14 feet below sidewalk grade) in the three borings (SB008 through SB010) advanced from the vault basement via hammer drill and hand auger.



The soil cores were placed on the 10-mil polyethylene sheeting in the order they came out of the ground. The acetate liners were cut open and the soil core was screened for the presence of volatile organic vapors, which are commonly associated with petroleum products and industrial solvents, utilizing a photo-ionization detector (PID). Each soil core was classified by a hydrogeologist using the Unified Soil Classification System (USCS). A soil boring log was developed for each location (**Appendix B**) and includes the characterization and screening data along with photo-documentation.

Soil characterization indicated that historical fill is present at the subject property to a depth of approximately 3-feet below surface grade in the borings advanced from the ground floor. The historical fill included pieces of brick, concrete, and tile. The historical fill layer was underlain by an approximately 3- to 6-foot thick layer of material that appeared to be a non-native mixture of silty sand and gravel. This layer of material was underlain by native soils that were mostly well graded, fine to medium grained sands. Each of the PID results from screening the borings advanced from the ground floor were less than five parts per million (ppm). Evidence of a release to soil, such as petroleum odors or visual staining, was not identified in any of the borings advanced from the ground floor.

In addition, soil characterization indicated that historical fill is present at the subject property to a depth of at least 4-feet below surface grade in the borings advanced in the vault basement. The historical fill included the same materials as the historical fill identified in the other borings. Each of the PID results from screening the borings advanced from within the vault basement were at least 150 ppm, with some results as high as 300 ppm. Evidence of a potential release to soil such as odors or visual staining was also identified in each of the borings.

3.4.2 Sample Collection Protocol

Sample locations were chosen based on field conditions, geophysical results, site access, and to provide general site characterization. Samples were collected from three of the seven borings from the ground floor and each of the three borings from the basement vault. The additional soil borings from the ground floor were conducted to identify if hotspots were present and to delineate the historical fill layer. The sampling interval was primarily based on field screening results - samples were collected from the two-foot interval exhibiting the highest degree of contamination from each boring. If contamination was not observed, samples were collected from the 0- to 2-foot interval, 4- to 6- foot interval, or 8- to 10- foot interval to enable widespread sampling coverage. Samples



collected in the vault basement were collected from the 0 to 2-foot interval beneath the concrete slab (approximately 10 to 12 feet below sidewalk grade).

Boring ID	Sample Depth	Rationale
SB001	N/A	
SB002	N/A	
SB003	0 to 2-feet	Historical fill material
	4 to 6-feet	General site characterization
SB004	0 to 2-feet	Historical fill material
	4 to 6-feet	General site characterization
SB005	N/A	
SB006	0 to 2-feet	Historical fill material
	8 to 10-feet	General site characterization
SB007	N/A	
SB008	10 to 12-feet	Petroleum odor, PID reading
SB009	10 to 12-feet	Petroleum odor, PID reading
SB010	10 to 12-feet	Petroleum odor, PID reading

Samples were analyzed for the following chemical analysis:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270 (CP-51 List)
- Metals by USEPA Methods 6010/7471 (RCRA List)

Samples collected for volatile organic analysis were collected directly from the acetate liners or hand auger buckets utilizing terra-core sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to Alpha Analytical Laboratory (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory, for the following analysis individually following NYSDEC Analytical Services Protocol (ASP)-Category A Deliverables.

3.4.3 Soil Analytical Results

Soil analytical results were compared to the NYSDEC’s Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and Final Commissioner Policy, CP-51 Soil Cleanup Objectives (SCOs) for Unrestricted Use, Restricted-Residential Use, Commercial Use, and Protection of Groundwater.



Analytical results are detailed in **Tables 1** through **3** and the complete laboratory analytical report is included in **Appendix C**.

Historical Usage

Six soil samples were collected during the investigation to determine if historical usage of the property has impacted the soils of the subject property. SB003 (0 to 2 feet and 4 to 6 feet), SB004 (0 to 2 feet and 4 to 6 feet), and SB006 (0 to 2 feet and 8 to 10 feet) were collected and analyzed.

The results of the samples indicated that SB004 (0 to 2 feet) and SB003 (0 to 2 feet) contained concentrations of mercury that exceeded its Unrestricted Use SCO (max 0.555 mg/kg), but were less than its Restricted Residential SCO. Mercury was non-detect in the two deeper samples from these borings. SB003 (0 to 2 feet) also contained a concentration of lead that exceeded its Unrestricted Use SCO, but did not exceed its Restricted Residential SCO. Lead was less than the Unrestricted Use SCO in the deeper sample in the same boring.

Several SVOCs exceeded Restricted Residential or Commercial Use SCOs in SB006 (0 to 2 feet) and SB003 (0 to 2 feet). SVOCs that exceeded include Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene.

VOCs were not detected at concentrations greater than Unrestricted Use SCOs. Petroleum related compounds were generally not detected. TCE was detected in one soil sample, SB003(0 to 2 feet), at a concentration of 0.00066 mg/kg; the Unrestricted Use SCO for TCE is 0.47 mg/kg.

Historical Tanks / Vault Basement

Three soil samples were collected during the investigation to determine if the evidence of on-site petroleum storage has impacted the soils of the vault basement of the subject property. SB008 (0 to 2 feet), SB009 (0 to 2 feet), and SB010 (0 to 2 feet) were collected and analyzed.

The results of the three samples indicated that four VOCs exceeded their respective Unrestricted Use SCOs, but were less than their respective Restricted Residential SCOs. These exceedances are associated with petroleum and include Total Xylenes and 1,2,4-Trimethylbenzene. Acetone and 2-butanone also exceeded, but they are also common laboratory contaminants.



There were no exceedances of Unrestricted Use SCOs for SVOCs in the three samples collected from the basement; however, there were detectable concentrations.

SB008 (0 to 2 feet) had concentrations of lead and mercury greater than their respective Unrestricted Use SCOs, but less than their respective Restricted Residential SCOs. The other two samples from the basement did not contain concentrations of metals that exceeded their Unrestricted Use SCOs.

3.5 Soil Vapor Quality Evaluation

To evaluate potential soil vapor contamination at the subject property, a soil vapor quality evaluation was performed.

3.5.1 Sampling Protocol

Sampling was conducted in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in New York State," (NYSDOH Guidance) October 2006.

A total of two sub slab soil vapor samples were collected from within the ground floor slab on grade spaces (SV001 and SV002 – chosen to evaluate historical uses) and two soil vapor samples (SV003 and SV004, set at 4 feet below surface grade, chosen to evaluate the basement) were collected from within the vault basement space. Due to the poor nature of the basement slab and the use of fans in the indoor air to vent the space, sub-slab vapor samples could not reasonably be collected. Temporary soil vapor probes were installed through the floor slab in accordance with procedures specified in the NYSDOH Guidance. Prior to sampling the integrity of the sampling port seals was tested using tracer gas analysis. The environment surrounding the seal was enriched with the tracer gas, helium, as readings were collected through the sampling probe with a portable helium detector. Tracer gas readings collected from each soil vapor probe were acceptable indicating the seals were intact and the sampling probes were acceptable for sample collection.

After the initial tracer gas test was performed, one to three volumes of the sample tubing was purged prior to collecting samples. Flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize potential indoor air infiltration during sampling. Soil vapor samples were collected into 2.7-liter Summa® vacuum canisters fitted with 2-hour flow controllers. The samplers were batch certified clean by the laboratory. Proper quality assurance (QA) / quality control (QC) protocol was followed during the collection of soil gas samples to



ensure that cross-contamination in the field did not occur. Canister sampling data sheets are included as **Appendix D**. The samples were submitted to Alpha for analysis of VOCs by USEPA Method TO-15.

3.5.2 Analytical Results

Soil vapor sample analytical data were compared to the USEPA Vapor Intrusion Screening Levels (VISLs) for default residential target sub-slab and near source gas concentration criteria, compiled August 2019, as specified at <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator>.

Analytical results for the sub-slab vapor samples are shown on **Table 4**. The laboratory data report is included as **Appendix C**.

Historical Usage

Two VOCs were detected at concentrations exceeding their respective VISLs in each of the two samples.

SV001 contained a detection of benzene at 22.3 $\mu\text{g}/\text{m}^3$, exceeding its VISL concentration of 12 $\mu\text{g}/\text{m}^3$. Other petroleum related compounds were also detected in SV001; however, they did not exceed their respective VISL concentrations. TCE was detected at a concentration of 5.75 $\mu\text{g}/\text{m}^3$ which has a VISL concentration of 16 $\mu\text{g}/\text{m}^3$.

SV002 contained a detection of TCE at 2,500 $\mu\text{g}/\text{m}^3$, exceeding its VISL concentration of 16 $\mu\text{g}/\text{m}^3$. PCE was also detected at 71.9 $\mu\text{g}/\text{m}^3$ which has a VISL concentration of 360 $\mu\text{g}/\text{m}^3$. There were minimal detections of petroleum related compounds.

Historical Tanks / Vault Basement

Several petroleum related VOCs were detected that exceeded their respective VISLs in both samples. Benzene (max 83.7 $\mu\text{g}/\text{m}^3$, VISL 12 $\mu\text{g}/\text{m}^3$), ethylbenzene (max 2,190 $\mu\text{g}/\text{m}^3$, VISL 37 $\mu\text{g}/\text{m}^3$), and xylene (max 6,080 $\mu\text{g}/\text{m}^3$, VISL 3,500 $\mu\text{g}/\text{m}^3$) were detected as well as other petroleum related compounds less than their respective VISLs, such as toluene and the trimethylbenzene isomers.

TCE was detected in SV003 at a concentration of 55.4 $\mu\text{g}/\text{m}^3$ and was not detected in the other sample. PCE was not detected in either sample.



4.0 CONCLUSIONS

PWGC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1903-11 for the subject property. The Phase II ESA consisted of the following tasks:

- Sidewalk Vault Investigation
- Geophysical Survey
- Soil Quality Evaluation
- Soil Vapor Quality Evaluation

4.1 Conclusions

Based on the results of the Phase II ESA, PWGC offers the following conclusions:

- VOCs associated with petroleum impact are present in excess of their Unrestricted Use SCOs in soil and in excess of their EPA VISLs in the soil vapor in the basement, located in the southeastern section of the site.
- SVOCs and metals were detected at concentrations that exceeded the Unrestricted Use SCOs in shallow soils beneath the first floor of the building. Two of the samples exceeded Restricted Residential or Commercial Use SCOs for SVOCs. Metals impact was also observed in the soil borings installed in the vault basement at concentrations exceeding Unrestricted Use SCOs.
- Chlorinated compounds, such as TCE and PCE, were identified in the soil vapor with the highest TCE concentration detected at 2,500 $\mu\text{g}/\text{m}^3$. Low level concentrations of TCE were detected in one soil sample.

4.2 Recommendations

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

- Redevelopment and rezoning of the subject property will likely be impacted by the presence of TCE in the soil vapor. PWGC recommends a vapor intrusion investigation after the existing building is removed. If elevated vapors remain present, future redevelopment plans may require a vapor barrier and/or a subsurface depressurization system to mitigate the migration of TCE and other chlorinated solvents into the indoor air of the new structures.



5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Jennifer Lewis, PG
Senior Project Manager

Report Completion Date: September 10, 2020



6.0 REFERENCES

- 6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6.
- CP-51 / Soil Cleanup Guidance.
- DER-10 / Technical Guidance for Site Investigation and Remediation.
- Standard practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM Standard E 1903-11.
- August 2020 Phase I Environmental Site Assessment Report by P.W. Grosser Consulting



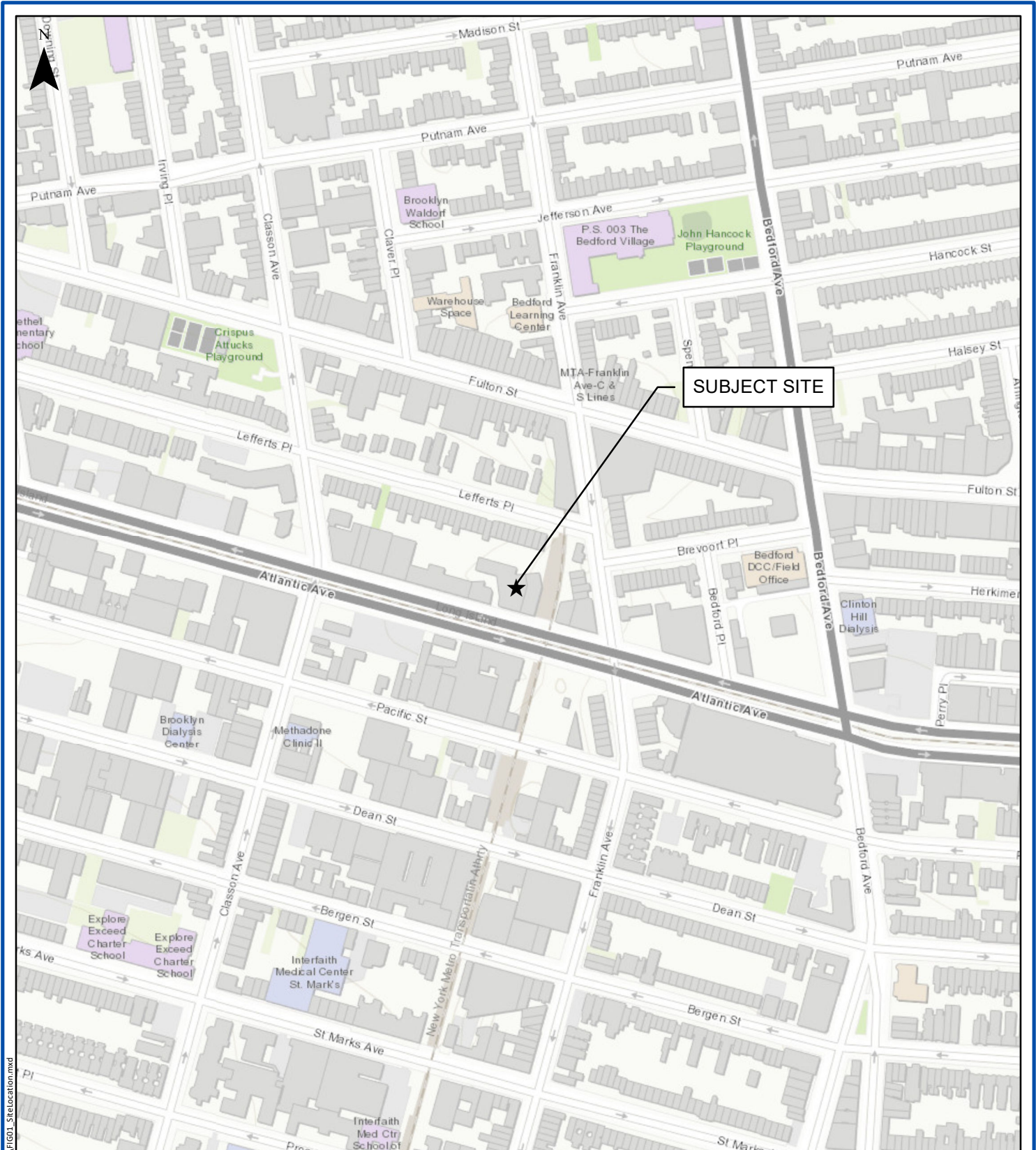
7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections and examination of records prepared by others. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
5. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.



FIGURES



SITE LOCATION

1061 ATLANTIC AVENUE
BROOKLYN, NY 11238

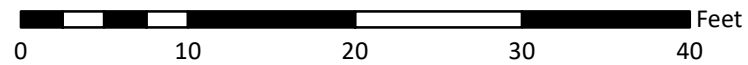
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Date:	9/04/2020
Designed by:	MG
Drawn by:	TJS
Approved by:	MG
Figure No:	1

Document path: C:\Users\luchaudhry\Desktop\Phase 1\FIG01_SiteLocation.mxd

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- ⋯⋯⋯ Door (approximate location)
- Interior Wall
- ⊕ Soil Boring
- Soil Vapor
- [] Building Footprint
- Platform
- Puddle
- Sewer Cleanout
- [] Basement
- Tax Lot Boundary
- Site Boundary



PWGC
CLIENT DRIVEN SOLUTIONS

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2003	Designed by:	MG
Date:	9/8/2020	Drawn by:	TJS
Scale:	AS SHOWN	Approved by:	MG

Site Plan with Sample Locations

1061 Atlantic Avenue
Brooklyn, NY

FIGURE NO:
2



TABLES

Table 2
SVOC Soil Analytical Data
1061/1063 Atlantic Avenue, Brooklyn, NY

Client Sample ID:	NYSDEC SCOs Unrestricted Use ¹	NYSDEC SCOs Restricted Residential Use ²	NYSDEC SCOs Commercial Use ²	NYSDEC SCOs Protection of Groundwater ²	SB003 0-2' L2036231-06 9/1/2020	SB003 4-6' L2036231-03 9/1/2020	SB004 0-2' L2036231-05 9/1/2020	SB004 4-6' L2036231-04 9/1/2020	SB006 0-2' L2036231-02 9/1/2020	SB006 8-10' L2036231-01 9/1/2020	SB008 0-2' L2036570-01 9/3/2020	SB009 0-2' L2036570-02 9/3/2020	SB010 0-2' L2036570-03 9/3/2020
Semivolatiles Organics by EPA 8270 GC/MS in mg/kg													
Acenaphthene	20	100	500	98	0.79	0.15 U	0.071 J	0.15 U	2.9	0.14 U	1.1	0.34	1.7
Acenaphthylene	100	100	500	107	0.62 J	0.15 U	0.15 U	0.15 U	0.86	0.14 U	0.15 U	0.15 U	0.29 U
Anthracene	100	100	500	1000	2.2	0.12 U	0.16	0.12 U	4.6	0.1 U	0.58	0.21	0.94
Benzo(a)anthracene	1	1	5.6	1	6.5	0.12 U	0.42	0.12 U	11	0.1 U	0.12 U	0.066 J	0.22 U
Benzo(a)pyrene	1	1	1	22	6.1	0.15 U	0.37	0.15 U	9.2	0.14 U	0.15 U	0.062 J	0.29 U
Benzo(b)fluoranthene	1	1	5.6	1.7	8	0.12 U	0.44	0.12 U	12	0.1 U	0.12 U	0.082 J	0.22 U
Benzo(ghi)perylene	100	100	500	1000	3.7	0.15 U	0.2	0.15 U	4.8	0.14 U	0.15 U	0.043 J	0.29 U
Benzo(k)fluoranthene	0.8	3.9	56	1.7	2.3	0.12 U	0.16	0.12 U	3.9	0.1 U	0.12 U	0.11 U	0.22 U
Chrysene	1	3.9	56	1	6.9	0.12 U	0.43	0.12 U	12	0.1 U	0.022 J	0.071 J	0.22 U
Dibenzo(a,h)anthracene	0.33	0.33	0.56	1000	0.86	0.12 U	0.054 J	0.12 U	1.4	0.1 U	0.12 U	0.11 U	0.22 U
Fluoranthene	100	100	500	1000	16	0.12 U	0.94	0.12 U	30	0.1 U	0.087 J	0.15	0.1 J
Fluorene	30	100	500	386	0.66 J	0.19 U	0.049 J	0.19 U	1.4	0.18 U	1.9	0.68	2.9
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	8.2	3.7	0.15 U	0.2	0.15 U	5	0.14 U	0.15 U	0.042 J	0.29 U
Phenanthrene	100	100	500	1000	15	0.12 U	0.86	0.12 U	39	0.1 U	6.2	1.7	9.4
Pyrene	100	100	500	1000	14	0.12 U	0.84	0.12 U	26	0.1 U	0.31	0.21	0.42

Notes:
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
U - Indicates that the analyte was not detected above the laboratory MDL.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Highlighted text denotes concentrations exceeding Unrestricted Use or Protection of Groundwater
Highlighted text denotes concentrations exceeding NYSDEC Restricted Residential SCOs
Highlighted text denotes concentrations exceeding NYSDEC Commercial Use SCOs

Table 3
Metals Soil Analytical Data
1061/1063 Atlantic Avenue, Brooklyn, NY

Client Sample ID:	NYSDEC SCOs Unrestricted Use ¹	NYSDEC SCOs Restricted Residential Use ²	NYSDEC SCOs Commercial Use ²	NYSDEC SCOs Protection of Groundwater ²	SB003 0-2' L2036231-06 9/1/2020	SB003 4-6' L2036231-03 9/1/2020	SB004 0-2' L2036231-05 9/1/2020	SB004 4-6' L2036231-04 9/1/2020	SB006 0-2' L2036231-02 9/1/2020	SB006 8-10' L2036231-01 9/1/2020	SB008 0-2' L2036570-01 9/3/2020	SB009 0-2' L2036570-02 9/3/2020	SB010 0-2' L2036570-03 9/3/2020
Total Metals by EPA method 6010/7471 in mg/kg													
Arsenic, Total	13	16	16	16	3.73	3.51	2.55	3.44	3.49	1.3	4.57	3.09	2.13
Barium, Total	350	400	400	820	44.6	20.6	34	9.17	38.1	14.8	59.4	43.1	26.8
Cadmium, Total	2.5	4.3	9.3	7.5	0.6	0.436 J	0.295 J	0.537	0.482 J	0.618	1.33	0.293 J	0.491
Chromium, Total 3	30	180	1,500	NS	14.1	19.2	8.55	18	16.2	10.9	16.1	9.49	13.8
Lead, Total	63	400	1,000	450	133	8.3	37.3	9.06	16.7	3.31	78.1	12	22
Mercury, Total	0.18	0.81	2.8	0.73	0.453	0.073 U	0.555	0.073 U	0.118	0.067 U	0.351	0.106	0.088 U
Selenium, Total	3.9	180	1,500	4	0.4 J	0.882 U	0.3 J	0.88 U	0.138 J	0.835 U	0.929 U	0.862 U	0.847 U
Silver, Total	2	180	1,500	8.3	0.434 U	0.441 U	0.454 U	0.44 U	0.492 U	0.418 U	0.465 U	0.431 U	0.424 U

Notes:

NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-UNRES: New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

U - Indicates that the analyte was not detected above the laboratory MDL

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

Highlighted text denotes concentrations exceeding Unrestricted Use or Protection of Groundwater

Highlighted text denotes concentrations exceeding NYSDEC Restricted Residential SCOs

Highlighted text denotes concentrations exceeding NYSDEC Commercial Use SCOs

Table 4
Soil Vapor Analytical Data
1061/1063 Atlantic Avenue, Brooklyn, NY

Client Sample ID:		SV001	SV002	SV003	SV004
Sample Depth (below local grade):		2"	2"	4'	4'
Sample Depth (below sidewalk grade):	EPA-VISL-TSSGC	2"	2"	14'	14'
Laboratory ID:		L2036199-01	L2036199-02	L2036550-01	L2036550-02
Sampling Date:		9/1/2020	9/1/2020	9/3/2020	9/3/2020
Volatile Organics in Air TO-15 (µg/m ³)					
1,1,1-Trichloroethane	170,000	1.09 U	6.82 U	42.3 U	40.4 U
1,1,2,2-Tetrachloroethane	1.6	1.37 U	8.58 U	53.2 U	51 U
1,1,2-Trichloroethane	5.8	1.09 U	6.82 U	42.3 U	40.4 U
1,1-Dichloroethane	58	0.809 U	5.06 U	31.4 U	30 U
1,1-Dichloroethene	7,000	0.793 U	4.96 U	30.7 U	29.3 U
1,2,4-Trichlorobenzene	70	1.48 U	9.28 U	57.5 U	54.9 U
1,2,4-Trimethylbenzene	2,100	6.54	6.15 U	364	265
1,2-Dibromoethane	0.16	1.54 U	9.61 U	59.6 U	56.9 U
1,2-Dichlorobenzene	7,000	1.2 U	7.52 U	46.6 U	44.5 U
1,2-Dichloroethane	3.6	0.809 U	5.06 U	31.4 U	30 U
1,2-Dichloropropane	25	0.924 U	5.78 U	35.8 U	34.2 U
1,3,5-Trimethylbenzene	2,100	1.75	6.15 U	423	260
1,3-Butadiene	3.1	1.62	2.77 U	17.1 U	19.2
1,3-Dichlorobenzene	NS	1.2 U	7.52 U	46.6 U	44.5 U
1,4-Dichlorobenzene	8.5	1.2 U	7.52 U	46.6 U	44.5 U
1,4-Dioxane	19	0.721 U	4.5 U	27.9 U	26.7 U
2,2,4-Trimethylpentane	NS	5.51	5.84 U	36.2 U	34.6 U
2-Butanone	170,000	7.02	9.2 U	102	161
2-Hexanone	1,000	3.15	5.12 U	31.8 U	30.3 U
3-Chloropropene	16	0.626 U	3.91 U	24.3 U	23.2 U
4-Ethyltoluene	NS	1.58	6.15 U	262	181
4-Methyl-2-pentanone	100,000	2.05 U	12.8 U	79.5 U	75.8 U
Acetone	1,100,000	2.38 U	14.8 U	285	454
Benzene	12	22.3	3.99 U	31.6	83.7
Benzyl chloride	1.9	1.04 U	6.47 U	40.1 U	38.3 U
Bromodichloromethane	2.5	1.34 U	8.37 U	51.9 U	49.6 U
Bromoform	85	2.07 U	12.9 U	80.1 U	76.5 U
Bromomethane	170	0.777 U	4.85 U	30.1 U	28.7 U
Carbon disulfide	24,000	0.623 U	3.89 U	104	63.5
Carbon tetrachloride	16	1.26 U	7.86 U	48.8 U	46.5 U
Chlorobenzene	1700	0.921 U	5.76 U	35.7 U	34.1 U
Chloroethane	350,000	0.528 U	3.3 U	20.5 U	19.5 U
Chloroform	4.1	0.977 U	6.1 U	37.8 U	36.1 U
Chloromethane	3,100	0.413 U	2.58 U	195	15.3 U
cis-1,2-Dichloroethene	NS	0.793 U	11.1	30.7 U	29.3 U
cis-1,3-Dichloropropene	23	0.908 U	5.67 U	35.2 U	33.6 U
Cyclohexane	210,000	17.2	4.3 U	265	123
Dibromochloromethane	NS	1.7 U	10.6 U	66 U	63 U
Dichlorodifluoromethane	3,500	3.23	7.12	38.3 U	36.6 U
Ethanol	NS	41.3	58.8 U	366 U	349 U
Ethyl Acetate	2,400	1.8 U	11.2 U	69.9 U	66.7 U
Ethylbenzene	37	6.17	5.43 U	1,380	2,190
Freon-113	170,000	1.53 U	9.58 U	59.4 U	56.7 U
Freon-114	NS	1.4 U	8.74 U	54.2 U	51.7 U
Heptane	NS	2.64	5.12 U	926	779
Hexachlorobutadiene	4.3	2.13 U	13.3 U	82.7 U	78.9 U
Isopropanol	7,000	2.46	7.67 U	117	103
Methyl tert butyl ether	360	0.721 U	4.51 U	27.9 U	26.7 U
Methylene chloride	3,400	1.74 U	10.8 U	67.4 U	64.3 U
n-Hexane	24,000	16.4	5.32	119	43.3
o-Xylene	3,500	9.77	5.43 U	1,060	1,980
p/m-Xylene	3,500	22.5	10.9 U	3,320	6,080
Styrene	35,000	0.852 U	5.32 U	33 U	31.5 U
Tertiary butyl Alcohol	NS	1.52 U	9.46 U	259	161
Tetrachloroethene	360	1.36 U	71.9	52.6 U	50.2 U
Tetrahydrofuran	70,000	1.47 U	9.2 U	57.2 U	54.6 U
Toluene	170,000	87.1	9.31	57.3	213
trans-1,2-Dichloroethene	NS	0.793 U	4.96 U	30.7 U	29.3 U
trans-1,3-Dichloropropene	23	0.908 U	5.67 U	35.2 U	33.6 U
Trichloroethene	16	5.75	2,500	55.4	39.8 U
Trichlorofluoromethane	NS	1.27	7.02 U	43.6 U	41.6 U
Vinyl bromide	2.9	0.874 U	5.47 U	33.9 U	32.4 U
Vinyl chloride	5.6	0.511 U	3.2 U	19.8 U	18.9 U
Total BTEX		147.84	9.31	5,849	10,547

Notes:

Data is compared to EPA VISL Default Residential Target Sub-Slab & Exterior Soil Gas Concentrations Criteria per VISL Calculator, Version 3.5, Updated October 2017 (June 2017 RSLs).

NS - No standard

U - Indicates that the analyte was not detected above the laboratory MDL

Highlighted text denotes concentrations exceeding VISL



APPENDIX A

GEOPHYSICAL SURVEY



GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

**1061 Atlantic Avenue
Brooklyn, NY 11238**

PREPARED FOR:

**Michael Gaul
Link Land Surveyors
21 Clark Place, Suite 1B
Mahopac, NY 10541**

PREPARED BY:

**John Rango
Geophysical Technician
Enviroprobe Service, Inc.
81 Marter Avenue
Mount Laurel, NJ 08054
(856) 858-8584
(800) 596-7472**

September 1, 2020

1.0 INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is an environmental investigation services firm which provides monitoring well installation (HSA), Geoprobe (DPT) drilling services and Environmental & Engineering Geophysics (EEG) services to the environmental consulting and engineering community.

Enviroprobe conducted a subsurface geophysical investigation at the subject property within client-specified areas of concern. Due to conditions and objectives, the investigation utilized a GSSI UtilityScan HS cart-mounted Ground Penetrating Radar (GPR) unit with a 350 MHz antenna, a Fisher TW-6 metallic locator, a Radiodetection RD7000TX3 multi-frequency transmitter, and a Radiodetection RD7000PXL receiver.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 2,000 MHz) to acquire subsurface information. An EM wave is propagated downward into the ground by a transmitting antenna. Where abrupt changes in electrical properties occur in the subsurface, a portion of the energy is reflected back to the surface. This reflected wave is detected by a receiver antenna and transmitted to a control unit for real time processing and display. The penetration depth of the GSSI unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands, and fine gravels. Clayey, highly saline or saturated soils, areas covered by concrete, foundry slag, or other highly conductive materials greatly reduce GPR penetration. GPR is a method that is commonly used for environmental, engineering, archaeological, and other shallow investigations.

The Fisher TW-6 metallic locator is designed to find pipes, cables and other metallic objects such as underground storage tanks (USTs). The TW-6 transmitter generates an electromagnetic field that induces electrical currents in the subsurface. These currents produce a secondary electromagnetic field that is measured by the TW-6 receiver. One surveyor can carry both the transmitter and receiver together to search for underground metallic objects, although the TW-6 response can also be affected by the electrical properties of non-metallic materials in the subsurface.

The Radiodetection (RD) transmitter and receiver are commonly used for pipe and cable locating. The multi-frequency transmitter can be directly connected, clamped, or used to induce a signal in a target line while the multi-frequency receiver is used to measure the signal from energized lines.

2.0 SCOPE OF WORK

On August 7, 2020, a geophysical technician from Enviroprobe Service Inc. was mobilized to the subject property in order to perform a geophysical investigation. The

purpose of this investigation was to designate conduits/utilities. These ground surface consisted of concrete, asphalt, and natural soil surfaces.

3.0 SURVEY RESULTS

The survey was conducted using a cart-mounted GPR unit, a Fisher TW-6 metallic locator, a handheld magnetic locator, and a RD unit. The RD unit was used to trace common utilities from sources in and around the survey area. The RD receiver was also used in the passive mode to search for live underground electrical power cables and other utilities emitting 60Hz electromagnetic signals. When possible, the locations of utilities were confirmed with the GPR. The GPR survey was also performed in a grid pattern in at least two orthogonal directions to search for evident and non-evident underground utilities. Linear anomalies consistent with underground utilities were marked on site using the following colors: pink – unknown utilities.

The GPR and TW-6 were used in a grid pattern over all client specified areas of the site. Based on the results of the GPR and TW-6 surveys, no metallic anomalies were detected on site. In the basement area there is evidence of two former AST (aboveground storage tanks) and possibly a third. The floor (made of wood) did not allow access for the GPR. There was a large amount of oil in the basement and was unable to scan the floor of the partial basement. The schonstedt got metallic responses but the space was filled with various metal objects. (See Figures 1 -)



Figure 1: Basement area.



Figure 2: Proposed boring location and unknown utilities.



Figure 3: Unknown utilities.



Figure 4: Proposed boring location.



Figure 5: Proposed boring location.



Figure 6: Proposed boring location and unknown utilities.

Client-selected proposed boring locations were investigated with the GPR, TW-6, and RD receiver. When possible, an area of approximately 10 ft by 10 ft surrounding each location was scanned. In some cases, obstructions prevented an investigation of the entire 10 ft by 10 ft area.

4.0 LIMITATIONS

The client-selected areas contained obstructions such as debris, narrow walkways, and large puddles. These objects prevented a thorough investigation of the spaces beneath and immediately adjacent to them.

Due to surface wet conditions and subsurface content, the GPR signal penetration was estimated at less than 2.5 ft in the majority of the survey area. This penetration was reduced in areas of concrete cover.

The TW-6 survey was kept up to 6 feet away from above ground objects containing metals depending on the sizes, shapes and positions of the metal objects. The TW-6 survey was not effective in areas with reinforced concrete.

Due to the dielectric properties of the subsurface, clay, plastic polymer, and fiberglass utilities may not have been detected.

All field services were conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B).

5.0 WARRANTIES

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Enviroprobe Service, Inc. warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental engineering methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

Enviroprobe represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by environmental consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

Enviroprobe Service, Inc. believes that the information provided in this report is reliable. However, Enviroprobe cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation. Enviroprobe can not guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, or excavating activities.

This report was prepared pursuant to the contract Enviroprobe has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Enviroprobe and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Enviroprobe and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Enviroprobe.

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APPENDIX B SOIL BORING LOGS

PROJECT #:	TOT2003		
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York		
BORING ID:	SB001	BORING DEPTH (FT): 10	CORE LENGTH (FT): 3
WELL ID:		BORING DIAMETER (IN): 4	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 09/01/2020	DATE FINISHED: 09/01/2020
DRILLING METHOD:	Direct Push	TIME STARTED: 10:00	TIME FINISHED: 10:30
DRILLING EQUIPMENT:	Geoprobe 540DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1				Asphalt.	0	1	
1			2			1	
2						2	
2				Brown, fine to medium SAND, some Gravel and Asphalt (FILL); dry and no odor.	0	2	
3						3	
3						3	
4						4	
4						4	
5			3			5	
5						5	
6						6	
6						6	
7						7	
7				Brown, fine SAND and Silt; moist and no odor.	0	7	
8			1			8	
8			5			8	
9						9	
9						9	
10			0			10	
10			5			10	

PROJECT #: TOT2003
 SITE ADDRESS: 1061 Atlantic Avenue, Brooklyn, New York



BORING ID: SB002
 WELL ID:
 DRILLING CONTRACTOR: Coastal Environmental Solutions, Inc.
 DRILLING METHOD: Direct Push
 DRILLING EQUIPMENT: Geoprobe 540DT
 SAMPLING METHOD: Macrocore

BORING DEPTH (FT): 10
 BORING DIAMETER (IN): 4
 DATE STARTED: 09/01/2020
 TIME STARTED: 10:30
 LATITUDE: N/A
 PROJECT MANAGER: Jennifer Lewis

CORE LENGTH (FT): 3
 WELL DIAMETER (IN): 2
 DATE FINISHED: 09/01/2020
 TIME FINISHED: 11:00
 LONGITUDE: N/A
 LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1						1	
2			1	Brown, fine to medium SAND, little concrete; dry and no odor.	0	2	
2						2	
3						3	
3						3	
4			2	Brown, fine SAND, some Silt and little gravel; dry and no odor.	0	4	
4						4	
5			5			5	
5						5	
6						6	
6						6	
7			2	Brown, fine SAND, some medium Sand and little gravel; dry and no odor.	0	7	
7						7	
8						8	
8						8	
9						9	
9						9	
10			1			10	
10						10	

PROJECT #:	TOT2003
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York
BORING ID:	SB003
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 540DT
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	3
BORING DIAMETER (IN):	4	WELL DIAMETER (IN):	2
DATE STARTED:	09/01/2020	DATE FINISHED:	09/01/2020
TIME STARTED:	11:00	TIME FINISHED:	11:30
LATITUDE:	N/A	LONGITUDE:	N/A
PROJECT MANAGER:	Jennifer Lewis	LOGGED BY:	Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1			1			1	
2			5	Brown, fine to medium SAND, some Concrete and Tile; dry and no odor.	0	2	
2						2	
3						3	
3						3	
4						4	
4			3			4	
5						5	
5						5	
6						6	
6						6	
7				Brown, fine to medium SAND and little gravel; dry and no odor.	0	7	
7						7	
8			2			8	
8						8	
9						9	
9						9	
10			1			10	
10						10	

PROJECT #:	TOT2003
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York
BORING ID:	SB004
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 540DT
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	3
BORING DIAMETER (IN):	4	WELL DIAMETER (IN):	2
DATE STARTED:	09/01/2020	DATE FINISHED:	09/01/2020
TIME STARTED:	11:30	TIME FINISHED:	12:00
LATITUDE:	N/A	LONGITUDE:	N/A
PROJECT MANAGER:	Jennifer Lewis	LOGGED BY:	Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1						1	
2			2	Brown to Dark Brown, fine to medium SAND, some coarse Sand, little brick and asphalt; dry and no odor.	0	2	
2						2	
3						3	
3						3	
4						4	
4			3			4	
5						5	
5						5	
6						6	
6						6	
7				Light Brown, fine SAND and SILT, little gravel; dry and no odor.	0	7	
7						7	
8			2			8	
8						8	
9						9	
9						9	
10			1			10	
10						10	

PROJECT #:	TOT2003
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York
BORING ID:	SB005
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 540DT
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	3
BORING DIAMETER (IN):	4	WELL DIAMETER (IN):	2
DATE STARTED:	09/01/2020	DATE FINISHED:	09/01/2020
TIME STARTED:	12:00	TIME FINISHED:	12:30
LATITUDE:	N/A	LONGITUDE:	N/A
PROJECT MANAGER:	Jennifer Lewis	LOGGED BY:	Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1			1	Brown, fine to medium SAND, some Gravel and Brick, little brick; dry and no odor.	0	1	
2			5			2	
2						2	
3						3	
3						3	
4				Brown, fine SAND, some Silt; dry and no odor.	0	4	
4			3			4	
5						5	
5						5	
6						6	
6				Brown, fine to medium SAND; dry and no odor.	0	6	
7			1			7	
7			5			7	
8						8	
8						8	
9						9	
9			1			9	
10						10	
10						10	

PROJECT #:	TOT2003
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York
BORING ID:	SB006
WELL ID:	
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 540DT
SAMPLING METHOD:	Macrocore



BORING DEPTH (FT):	10	CORE LENGTH (FT):	3
BORING DIAMETER (IN):	4	WELL DIAMETER (IN):	2
DATE STARTED:	09/01/2020	DATE FINISHED:	09/01/2020
TIME STARTED:	12:30	TIME FINISHED:	13:00
LATITUDE:	N/A	LONGITUDE:	N/A
PROJECT MANAGER:	Jennifer Lewis	LOGGED BY:	Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1			1	Brown, fine to medium SAND, some Brick; dry and no odor.	0	1	
2			5			2	
2						2	
3						3	
3						3	
4						4	
4						4	
5			2	Brown, fine SAND, some Silt; dry and no odor.	0	5	
5						5	
6						6	
6						6	
7						7	
7						7	
8			3			8	
8						8	
9						9	
9				Brown, fine SAND, some medium Sand; dry and no odor.	0	9	
9						9	
10			1			10	
10						10	

PROJECT #:	TOT2003		
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York		
BORING ID:	SB007	BORING DEPTH (FT): 10	CORE LENGTH (FT): 3
WELL ID:		BORING DIAMETER (IN): 4	WELL DIAMETER (IN): 2
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 09/01/2020	DATE FINISHED: 09/01/2020
DRILLING METHOD:	Direct Push	TIME STARTED: 13:00	TIME FINISHED: 13:30
DRILLING EQUIPMENT:	Geoprobe 540DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Janelle Cooley

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
1						1	
1			1			1	
2			5	Brown, fine to medium SAND, some Gravel, Asphalt and Brick; dry and no odor.	0	2	
2						2	
3						3	
3						3	
4						4	
4						4	
5			2			5	
5						5	
6						6	
6						6	
7				Brown, fine SAND and some Silt; dry and no odor.	0	7	
7						7	
8			3			8	
8						8	
9						9	
9						9	
10			1	Light Brown, fine SAND and some medium Sand; dry and no odor.	0	10	
10						10	

PROJECT #:	TOT2003		
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York		
BORING ID:	SB008	BORING DEPTH (FT):	CORE LENGTH (FT):
WELL ID:		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED:	DATE FINISHED:
DRILLING METHOD:	Hand Auger	TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:	Hand Auger	LATITUDE:	LONGITUDE:
SAMPLING METHOD:	Hand Auger	PROJECT MANAGER:	LOGGED BY:

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
0						0	
0						0	
1						1	
1						1	
1						1	
1						1	
1						1	
1						1	
1						1	
2			3			2	
2						2	
2						2	
2				Grey, fine to medium SAND, little gravel and asphalt; dry and petroleum odor.	152.1	2	
2						2	
2						2	
2						2	
3						3	
3						3	
3						3	
3						3	
3						3	
3						3	
3						3	
4						4	
4						4	
4			1			4	

PROJECT #:	TOT2003		
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York		
BORING ID:	SB009	BORING DEPTH (FT):	CORE LENGTH (FT):
WELL ID:		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED:	DATE FINISHED:
DRILLING METHOD:	Hand Auger	TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:	Hand Auger	LATITUDE:	LONGITUDE:
SAMPLING METHOD:	Hand Auger	PROJECT MANAGER:	LOGGED BY:

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
0						0	
0						0	
1						1	
1						1	
1						1	
1						1	
1						1	
1						1	
1						1	
2			3			2	
2						2	
2						2	
2				Grey, fine to medium SAND, little gravel and asphalt; dry and petroleum odor.	310.1	2	
2						2	
2						2	
3						3	
3						3	
3						3	
3						3	
3						3	
3						3	
4			1			4	
4						4	

PROJECT #:	TOT2003		
SITE ADDRESS:	1061 Atlantic Avenue, Brooklyn, New York		
BORING ID:	SB010	BORING DEPTH (FT):	CORE LENGTH (FT):
WELL ID:		BORING DIAMETER (IN):	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED:	DATE FINISHED:
DRILLING METHOD:	Hand Auger	TIME STARTED:	TIME FINISHED:
DRILLING EQUIPMENT:	Hand Auger	LATITUDE:	LONGITUDE:
SAMPLING METHOD:	Hand Auger	PROJECT MANAGER:	LOGGED BY:

















DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0						0	
0						0	
0						0	
1						1	
1						1	
1						1	
1						1	
1						1	
1						1	
1			3			1	
2						2	
2						2	
2				Brown, fine to medium SAND, some Brick and Asphalt; dry and no petroleum odor.	141.2	2	
2						2	
2						2	
2						2	
3						3	
3						3	
3						3	
3						3	
3						3	
3			1			3	
4						4	
4						4	

Soil Boring and Monitoring Well Symbology

Sample Interval



USGS Key

	GW
	GP
	GM
	GC
	SW
	SP
	SM
	SC
	ML
	CL
	OL
	MH
	CH
	OH
	PT
	FILL

Well Construction Key

	Fill
	Cement
	Bentonite
	Sand
	Slough
	Cover
	Casing
	Screen
	End Cap
	Gravel Pack



APPENDIX C

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number:	L2036199
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Michael Gaul
Phone:	(631) 589-6353
Project Name:	TOT2003
Project Number:	TOT2003
Report Date:	09/04/20

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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: TOT2003
Project Number: TOT2003

Lab Number: L2036199
Report Date: 09/04/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2036199-01	SV001	SOIL_VAPOR	1061 ATLANTIC AVE. BROOKLYN, NY	09/01/20 12:08	09/02/20
L2036199-02	SV002	SOIL_VAPOR	1061 ATLANTIC AVE. BROOKLYN, NY	09/01/20 12:11	09/02/20

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036199
Report Date: 09/04/20

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: TOT2003
Project Number: TOT2003

Lab Number: L2036199
Report Date: 09/04/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 1, 2020. The canister certification results are provided as an addendum.

L2036199-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/04/20

AIR

Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-01
 Client ID: SV001
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/01/20 12:08
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/04/20 00:31
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.653	0.200	--	3.23	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.733	0.200	--	1.62	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	21.9	5.00	--	41.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--		1
Isopropanol	1.00	0.500	--	2.46	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	2.38	0.500	--	7.02	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-01
 Client ID: SV001
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/01/20 12:08
 Date Received: 09/02/20
 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	4.65	0.200	--	16.4	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	6.98	0.200	--	22.3	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	5.01	0.200	--	17.2	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	1.07	0.200	--	5.75	1.07	--		1
2,2,4-Trimethylpentane	1.18	0.200	--	5.51	0.934	--		1
Heptane	0.645	0.200	--	2.64	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	23.1	0.200	--	87.1	0.754	--		1
2-Hexanone	0.769	0.200	--	3.15	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.42	0.200	--	6.17	0.869	--		1



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-01

Date Collected: 09/01/20 12:08

Client ID: SV001

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.17	0.400	--	22.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.25	0.200	--	9.77	0.869	--		1
4-Ethyltoluene	0.322	0.200	--	1.58	0.983	--		1
1,3,5-Trimethylbenzene	0.355	0.200	--	1.75	0.983	--		1
1,2,4-Trimethylbenzene	1.33	0.200	--	6.54	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	89		60-140
chlorobenzene-d5	98		60-140



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-02 D
 Client ID: SV002
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/01/20 12:11
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/04/20 01:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.44	1.25	--	7.12	6.18	--		6.25
Chloromethane	ND	1.25	--	ND	2.58	--		6.25
Freon-114	ND	1.25	--	ND	8.74	--		6.25
Vinyl chloride	ND	1.25	--	ND	3.20	--		6.25
1,3-Butadiene	ND	1.25	--	ND	2.77	--		6.25
Bromomethane	ND	1.25	--	ND	4.85	--		6.25
Chloroethane	ND	1.25	--	ND	3.30	--		6.25
Ethanol	ND	31.2	--	ND	58.8	--		6.25
Vinyl bromide	ND	1.25	--	ND	5.47	--		6.25
Acetone	ND	6.25	--	ND	14.8	--		6.25
Trichlorofluoromethane	ND	1.25	--	ND	7.02	--		6.25
Isopropanol	ND	3.12	--	ND	7.67	--		6.25
1,1-Dichloroethene	ND	1.25	--	ND	4.96	--		6.25
Tertiary butyl Alcohol	ND	3.12	--	ND	9.46	--		6.25
Methylene chloride	ND	3.12	--	ND	10.8	--		6.25
3-Chloropropene	ND	1.25	--	ND	3.91	--		6.25
Carbon disulfide	ND	1.25	--	ND	3.89	--		6.25
Freon-113	ND	1.25	--	ND	9.58	--		6.25
trans-1,2-Dichloroethene	ND	1.25	--	ND	4.96	--		6.25
1,1-Dichloroethane	ND	1.25	--	ND	5.06	--		6.25
Methyl tert butyl ether	ND	1.25	--	ND	4.51	--		6.25
2-Butanone	ND	3.12	--	ND	9.20	--		6.25
cis-1,2-Dichloroethene	2.79	1.25	--	11.1	4.96	--		6.25



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-02 D
 Client ID: SV002
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/01/20 12:11
 Date Received: 09/02/20
 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	3.12	--	ND	11.2	--		6.25
Chloroform	ND	1.25	--	ND	6.10	--		6.25
Tetrahydrofuran	ND	3.12	--	ND	9.20	--		6.25
1,2-Dichloroethane	ND	1.25	--	ND	5.06	--		6.25
n-Hexane	1.51	1.25	--	5.32	4.41	--		6.25
1,1,1-Trichloroethane	ND	1.25	--	ND	6.82	--		6.25
Benzene	ND	1.25	--	ND	3.99	--		6.25
Carbon tetrachloride	ND	1.25	--	ND	7.86	--		6.25
Cyclohexane	ND	1.25	--	ND	4.30	--		6.25
1,2-Dichloropropane	ND	1.25	--	ND	5.78	--		6.25
Bromodichloromethane	ND	1.25	--	ND	8.37	--		6.25
1,4-Dioxane	ND	1.25	--	ND	4.50	--		6.25
Trichloroethene	466	1.25	--	2500	6.72	--		6.25
2,2,4-Trimethylpentane	ND	1.25	--	ND	5.84	--		6.25
Heptane	ND	1.25	--	ND	5.12	--		6.25
cis-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--		6.25
4-Methyl-2-pentanone	ND	3.12	--	ND	12.8	--		6.25
trans-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--		6.25
1,1,2-Trichloroethane	ND	1.25	--	ND	6.82	--		6.25
Toluene	2.47	1.25	--	9.31	4.71	--		6.25
2-Hexanone	ND	1.25	--	ND	5.12	--		6.25
Dibromochloromethane	ND	1.25	--	ND	10.6	--		6.25
1,2-Dibromoethane	ND	1.25	--	ND	9.61	--		6.25
Tetrachloroethene	10.6	1.25	--	71.9	8.48	--		6.25
Chlorobenzene	ND	1.25	--	ND	5.76	--		6.25
Ethylbenzene	ND	1.25	--	ND	5.43	--		6.25



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**SAMPLE RESULTS**

Lab ID: L2036199-02 D
 Client ID: SV002
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/01/20 12:11
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	2.50	--	ND	10.9	--		6.25
Bromoform	ND	1.25	--	ND	12.9	--		6.25
Styrene	ND	1.25	--	ND	5.32	--		6.25
1,1,2,2-Tetrachloroethane	ND	1.25	--	ND	8.58	--		6.25
o-Xylene	ND	1.25	--	ND	5.43	--		6.25
4-Ethyltoluene	ND	1.25	--	ND	6.15	--		6.25
1,3,5-Trimethylbenzene	ND	1.25	--	ND	6.15	--		6.25
1,2,4-Trimethylbenzene	ND	1.25	--	ND	6.15	--		6.25
Benzyl chloride	ND	1.25	--	ND	6.47	--		6.25
1,3-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,4-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,2-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,2,4-Trichlorobenzene	ND	1.25	--	ND	9.28	--		6.25
Hexachlorobutadiene	ND	1.25	--	ND	13.3	--		6.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	96		60-140



Project Name: TOT2003

Lab Number: L2036199

Project Number: TOT2003

Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/03/20 14:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1406365-4								
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
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



Project Name: TOT2003

Lab Number: L2036199

Project Number: TOT2003

Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/03/20 14:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1406365-4								
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
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: TOT2003

Lab Number: L2036199

Project Number: TOT2003

Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/03/20 14:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1406365-4								
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: TOT2003

Project Number: TOT2003

Lab Number: L2036199

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1406365-3								
Dichlorodifluoromethane	86		-		70-130	-		
Chloromethane	89		-		70-130	-		
Freon-114	91		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	95		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethanol	76		-		40-160	-		
Vinyl bromide	87		-		70-130	-		
Acetone	70		-		40-160	-		
Trichlorofluoromethane	88		-		70-130	-		
Isopropanol	74		-		40-160	-		
1,1-Dichloroethene	91		-		70-130	-		
Tertiary butyl Alcohol	84		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	93		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036199

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1406365-3								
Ethyl Acetate	96		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
n-Hexane	96		-		70-130	-		
1,1,1-Trichloroethane	96		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
Cyclohexane	95		-		70-130	-		
1,2-Dichloropropane	95		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	93		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	95		-		70-130	-		
Heptane	97		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	91		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	95		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	102		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036199

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1406365-3								
Tetrachloroethene	98		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	99		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	105		-		70-130	-		
Styrene	102		-		70-130	-		
1,1,2,2-Tetrachloroethane	99		-		70-130	-		
o-Xylene	100		-		70-130	-		
4-Ethyltoluene	101		-		70-130	-		
1,3,5-Trimethylbenzene	102		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Benzyl chloride	103		-		70-130	-		
1,3-Dichlorobenzene	103		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	101		-		70-130	-		
Hexachlorobutadiene	108		-		70-130	-		

Project Name: TOT2003

Project Number: TOT2003

Serial_No:09042016:32
Lab Number: L2036199

Report Date: 09/04/20

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
L2036199-01	SV001	01479	Flow 3	09/01/20	329140		-	-	-	Pass	18.0	19.5	8
L2036199-01	SV001	2312	2.7L Can	09/01/20	329140	L2033034-01	Pass	-29.4	-7.3	-	-	-	-
L2036199-02	SV002	01950	Flow 3	09/01/20	329140		-	-	-	Pass	18.0	19.3	7
L2036199-02	SV002	323	2.7L Can	09/01/20	329140	L2033034-01	Pass	-29.4	-7.0	-	-	-	-

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

Lab Number: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/17/20 18:02
 Analyst: RY

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: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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
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: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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
Project Number: CANISTER QC BAT

Lab Number: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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	98		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/14/20 17:39
 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: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



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

Lab Number: L2033034
Report Date: 09/04/20

Air Canister Certification Results

Lab ID: L2033034-01
 Client ID: CAN 393 SHELF 19
 Sample Location:

Date Collected: 08/13/20 16:00
 Date Received: 08/14/20
 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	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	93		60-140



Project Name: TOT2003**Lab Number:** L2036199**Project Number:** TOT2003**Report Date:** 09/04/20**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(*)
L2036199-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2036199-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036199
Report Date: 09/04/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036199
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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. 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 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

Report Format: Data Usability Report



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036199
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Data Qualifiers

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: TOT2003
Project Number: TOT2003

Lab Number: L2036199
Report Date: 09/04/20

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PWGL
 Address: 63 Bohemia Ave
Bohemia NY 11716
 Phone: 631-584-6353
 Fax:
 Email: mgawl@pwglaser.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Project Information

Project Name: TOT2003
 Project Location: 1061 Atlantic Ave Brooklyn NY
 Project #: TOT2003
 Project Manager: Mike Grawl
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
 Date Due: 2 days Time:

Date Rec'd in Lab: 9/13/20

Report Information - Data Deliverables

FAX
 ADEx
 Criteria Checker:
 (Default based on Regulatory Criteria Indicated)
 Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
 Report to: (if different than Project Manager)

ALPHA Job #: L2036199

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

ANALYSIS

TO-15
 TO-15 SIM
 APH (includes Non-petroleum HCs)
 Fixed Gases
 Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH (includes Non-petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<u>36199-01</u>	<u>SV001</u>	<u>9/1/20</u>	<u>9/1/20 10:08</u>	<u>12:08</u>	<u>-30.07</u>	<u>-8.07</u>	<u>SV</u>	<u>JC</u>	<u>2.7</u>	<u>2312</u>	<u>01471X</u>						
<u>02</u>	<u>SV002</u>	<u>9/1/20</u>	<u>10:11</u>	<u>12:11</u>	<u>-29.94</u>	<u>-7.72</u>	<u>SV</u>	<u>JC</u>	<u>2.7</u>	<u>323</u>	<u>61950X</u>						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L2036231
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Michael Gaul
Phone:	(631) 589-6353
Project Name:	TOT2003
Project Number:	TOT2003
Report Date:	09/04/20

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: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2036231-01	SB006 (8-10)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:10	09/02/20
L2036231-02	SB006 (0-2)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:25	09/02/20
L2036231-03	SB003 (4-6)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:05	09/02/20
L2036231-04	SB004 (4-6)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:15	09/02/20
L2036231-05	SB004 (0-2)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:00	09/02/20
L2036231-06	SB003 (0-2)	SOIL	1061 ATLANTIC AVE., BROOKLYN, NY	09/01/20 12:20	09/02/20

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

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: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2036231-06: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

The WG1405869-4 Laboratory Duplicate RPDs for cadmium (24%), chromium (57%), and lead (23%), performed on L2036231-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 09/04/20

ORGANICS

VOLATILES

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01
 Client ID: SB006 (8-10)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:10
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 08:52
 Analyst: MV
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01
 Client ID: SB006 (8-10)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:10
 Date Received: 09/02/20
 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	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01

Date Collected: 09/01/20 12:10

Client ID: SB006 (8-10)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, 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	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	86		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02
 Client ID: SB006 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:25
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 09:18
 Analyst: MV
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02
 Client ID: SB006 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:25
 Date Received: 09/02/20
 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	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02
 Client ID: SB006 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:25
 Date Received: 09/02/20
 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	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	88		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03
 Client ID: SB003 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:05
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 09:43
 Analyst: MV
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.91	0.50	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03
 Client ID: SB003 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:05
 Date Received: 09/02/20
 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	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.27	1
Xylenes, Total	ND		ug/kg	0.91	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.84	1
Acetone	ND		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.2	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03

Date Collected: 09/01/20 12:05

Client ID: SB003 (4-6)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, 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	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	88		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04
 Client ID: SB004 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:15
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 10:09
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	0.19	J	ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04
 Client ID: SB004 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:15
 Date Received: 09/02/20
 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	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	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	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	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	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04
 Client ID: SB004 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:15
 Date Received: 09/02/20
 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	0.98	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	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	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	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	89		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05
 Client ID: SB004 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:00
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 10:35
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	14	6.3	1
1,1-Dichloroethane	ND		ug/kg	2.8	0.40	1
Chloroform	ND		ug/kg	4.1	0.39	1
Carbon tetrachloride	ND		ug/kg	2.8	0.64	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.34	1
Dibromochloromethane	ND		ug/kg	2.8	0.39	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	0.74	1
Tetrachloroethene	ND		ug/kg	1.4	0.54	1
Chlorobenzene	ND		ug/kg	1.4	0.35	1
Trichlorofluoromethane	ND		ug/kg	11	1.9	1
1,2-Dichloroethane	ND		ug/kg	2.8	0.71	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.46	1
Bromodichloromethane	ND		ug/kg	1.4	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	2.8	0.75	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.44	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.44	1
1,1-Dichloropropene	ND		ug/kg	1.4	0.44	1
Bromoform	ND		ug/kg	11	0.68	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.46	1
Benzene	0.46	J	ug/kg	1.4	0.46	1
Toluene	ND		ug/kg	2.8	1.5	1
Ethylbenzene	ND		ug/kg	2.8	0.39	1
Chloromethane	ND		ug/kg	11	2.6	1
Bromomethane	ND		ug/kg	5.5	1.6	1
Vinyl chloride	ND		ug/kg	2.8	0.92	1
Chloroethane	ND		ug/kg	5.5	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.8	0.66	1
trans-1,2-Dichloroethene	ND		ug/kg	4.1	0.38	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05
 Client ID: SB004 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:00
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.90	J	ug/kg	1.4	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.40	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.41	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.47	1
Methyl tert butyl ether	ND		ug/kg	5.5	0.56	1
p/m-Xylene	ND		ug/kg	5.5	1.5	1
o-Xylene	ND		ug/kg	2.8	0.80	1
Xylenes, Total	ND		ug/kg	2.8	0.80	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	2.8	0.38	1
Dibromomethane	ND		ug/kg	5.5	0.66	1
Styrene	ND		ug/kg	2.8	0.54	1
Dichlorodifluoromethane	ND		ug/kg	28	2.5	1
Acetone	ND		ug/kg	28	13.	1
Carbon disulfide	ND		ug/kg	28	12.	1
2-Butanone	ND		ug/kg	28	6.1	1
Vinyl acetate	ND		ug/kg	28	5.9	1
4-Methyl-2-pentanone	ND		ug/kg	28	3.5	1
1,2,3-Trichloropropane	ND		ug/kg	5.5	0.35	1
2-Hexanone	ND		ug/kg	28	3.2	1
Bromochloromethane	ND		ug/kg	5.5	0.57	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.56	1
1,2-Dibromoethane	ND		ug/kg	2.8	0.77	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.46	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.36	1
Bromobenzene	ND		ug/kg	5.5	0.40	1
n-Butylbenzene	ND		ug/kg	2.8	0.46	1
sec-Butylbenzene	ND		ug/kg	2.8	0.40	1
tert-Butylbenzene	ND		ug/kg	5.5	0.32	1
o-Chlorotoluene	ND		ug/kg	5.5	0.53	1
p-Chlorotoluene	ND		ug/kg	5.5	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.3	2.8	1
Hexachlorobutadiene	ND		ug/kg	11	0.47	1
Isopropylbenzene	ND		ug/kg	2.8	0.30	1
p-Isopropyltoluene	ND		ug/kg	2.8	0.30	1
Naphthalene	ND		ug/kg	11	1.8	1
Acrylonitrile	ND		ug/kg	11	3.2	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05
 Client ID: SB004 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:00
 Date Received: 09/02/20
 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	2.8	0.47	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.89	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.75	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.53	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.92	1
1,4-Dioxane	ND		ug/kg	220	97.	1
p-Diethylbenzene	ND		ug/kg	5.5	0.49	1
p-Ethyltoluene	ND		ug/kg	5.5	1.1	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.53	1
Ethyl ether	ND		ug/kg	5.5	0.94	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	3.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	88		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06
 Client ID: SB003 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:20
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/03/20 11:01
 Analyst: MV
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	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	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.95	0.51	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06
 Client ID: SB003 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:20
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.66		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.95	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.86	1
Acetone	29		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	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	0.47	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	0.94	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: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06
 Client ID: SB003 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:20
 Date Received: 09/02/20
 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	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	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	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	88		70-130

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/03/20 07:09
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1406102-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/03/20 07:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1406102-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/03/20 07:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1406102-5					
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	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	84		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1406102-3 WG1406102-4								
Methylene chloride	96		99		70-130	3		30
1,1-Dichloroethane	100		104		70-130	4		30
Chloroform	87		91		70-130	4		30
Carbon tetrachloride	90		93		70-130	3		30
1,2-Dichloropropane	100		104		70-130	4		30
Dibromochloromethane	80		85		70-130	6		30
1,1,2-Trichloroethane	89		95		70-130	7		30
Tetrachloroethene	108		113		70-130	5		30
Chlorobenzene	89		94		70-130	5		30
Trichlorofluoromethane	94		97		70-139	3		30
1,2-Dichloroethane	88		94		70-130	7		30
1,1,1-Trichloroethane	97		101		70-130	4		30
Bromodichloromethane	84		89		70-130	6		30
trans-1,3-Dichloropropene	89		95		70-130	7		30
cis-1,3-Dichloropropene	91		97		70-130	6		30
1,1-Dichloropropene	109		112		70-130	3		30
Bromoform	78		83		70-130	6		30
1,1,1,2-Tetrachloroethane	84		87		70-130	4		30
Benzene	96		100		70-130	4		30
Toluene	99		103		70-130	4		30
Ethylbenzene	99		103		70-130	4		30
Chloromethane	126		124		52-130	2		30
Bromomethane	90		90		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1406102-3 WG1406102-4								
Vinyl chloride	109		111		67-130	2		30
Chloroethane	88		92		50-151	4		30
1,1-Dichloroethene	114		118		65-135	3		30
trans-1,2-Dichloroethene	104		108		70-130	4		30
Trichloroethene	95		100		70-130	5		30
1,2-Dichlorobenzene	90		95		70-130	5		30
1,3-Dichlorobenzene	93		97		70-130	4		30
1,4-Dichlorobenzene	91		94		70-130	3		30
Methyl tert butyl ether	96		101		66-130	5		30
p/m-Xylene	98		102		70-130	4		30
o-Xylene	90		93		70-130	3		30
cis-1,2-Dichloroethene	97		102		70-130	5		30
Dibromomethane	85		89		70-130	5		30
Styrene	90		94		70-130	4		30
Dichlorodifluoromethane	126		127		30-146	1		30
Acetone	86		90		54-140	5		30
Carbon disulfide	86		88		59-130	2		30
2-Butanone	99		99		70-130	0		30
Vinyl acetate	111		116		70-130	4		30
4-Methyl-2-pentanone	100		105		70-130	5		30
1,2,3-Trichloropropane	85		89		68-130	5		30
2-Hexanone	89		93		70-130	4		30
Bromochloromethane	87		92		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1406102-3 WG1406102-4								
2,2-Dichloropropane	100		103		70-130	3		30
1,2-Dibromoethane	90		96		70-130	6		30
1,3-Dichloropropane	91		96		69-130	5		30
1,1,1,2-Tetrachloroethane	86		90		70-130	5		30
Bromobenzene	88		91		70-130	3		30
n-Butylbenzene	95		100		70-130	5		30
sec-Butylbenzene	102		106		70-130	4		30
tert-Butylbenzene	99		103		70-130	4		30
o-Chlorotoluene	95		99		70-130	4		30
p-Chlorotoluene	93		97		70-130	4		30
1,2-Dibromo-3-chloropropane	87		92		68-130	6		30
Hexachlorobutadiene	99		103		67-130	4		30
Isopropylbenzene	101		106		70-130	5		30
p-Isopropyltoluene	100		104		70-130	4		30
Naphthalene	99		105		70-130	6		30
Acrylonitrile	109		117		70-130	7		30
n-Propylbenzene	100		104		70-130	4		30
1,2,3-Trichlorobenzene	93		97		70-130	4		30
1,2,4-Trichlorobenzene	96		100		70-130	4		30
1,3,5-Trimethylbenzene	99		102		70-130	3		30
1,2,4-Trimethylbenzene	96		100		70-130	4		30
1,4-Dioxane	117		122		65-136	4		30
p-Diethylbenzene	100		104		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1406102-3 WG1406102-4								
p-Ethyltoluene	101		104		70-130	3		30
1,2,4,5-Tetramethylbenzene	101		106		70-130	5		30
Ethyl ether	101		106		67-130	5		30
trans-1,4-Dichloro-2-butene	102		97		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		88		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	87		87		70-130

SEMIVOLATILES

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01
 Client ID: SB006 (8-10)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:10
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/03/20 12:43
 Analyst: EK
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	ND		ug/kg	100	20.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	100	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	103		30-120
4-Terphenyl-d14	90		18-120

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02 D
 Client ID: SB006 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:25
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/20 05:29
 Analyst: WR
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2900		ug/kg	800	100	5
Fluoranthene	30000		ug/kg	600	120	5
Benzo(a)anthracene	11000		ug/kg	600	110	5
Benzo(a)pyrene	9200		ug/kg	800	240	5
Benzo(b)fluoranthene	12000		ug/kg	600	170	5
Benzo(k)fluoranthene	3900		ug/kg	600	160	5
Chrysene	12000		ug/kg	600	100	5
Acenaphthylene	860		ug/kg	800	160	5
Anthracene	4600		ug/kg	600	200	5
Benzo(ghi)perylene	4800		ug/kg	800	120	5
Fluorene	1400		ug/kg	1000	98.	5
Phenanthrene	39000		ug/kg	600	120	5
Dibenzo(a,h)anthracene	1400		ug/kg	600	120	5
Indeno(1,2,3-cd)pyrene	5000		ug/kg	800	140	5
Pyrene	26000		ug/kg	600	100	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	137	Q	23-120
2-Fluorobiphenyl	95		30-120
4-Terphenyl-d14	81		18-120

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03
 Client ID: SB003 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:05
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/03/20 13:08
 Analyst: EK
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	ND		ug/kg	120	22.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	76		18-120

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04
 Client ID: SB004 (4-6)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:15
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/03/20 13:32
 Analyst: EK
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	ND		ug/kg	120	22.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	91		30-120
4-Terphenyl-d14	75		18-120

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05
 Client ID: SB004 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:00
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/03/20 14:20
 Analyst: EK
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	71	J	ug/kg	150	20.	1
Fluoranthene	940		ug/kg	120	22.	1
Benzo(a)anthracene	420		ug/kg	120	22.	1
Benzo(a)pyrene	370		ug/kg	150	47.	1
Benzo(b)fluoranthene	440		ug/kg	120	32.	1
Benzo(k)fluoranthene	160		ug/kg	120	31.	1
Chrysene	430		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	160		ug/kg	120	38.	1
Benzo(ghi)perylene	200		ug/kg	150	23.	1
Fluorene	49	J	ug/kg	190	19.	1
Phenanthrene	860		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	54	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	27.	1
Pyrene	840		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	90		30-120
4-Terphenyl-d14	73		18-120

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06 D
 Client ID: SB003 (0-2)
 Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:20
 Date Received: 09/02/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/20 05:06
 Analyst: WR
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 09/03/20 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	790		ug/kg	740	96.	5
Fluoranthene	16000		ug/kg	550	100	5
Benzo(a)anthracene	6500		ug/kg	550	100	5
Benzo(a)pyrene	6100		ug/kg	740	220	5
Benzo(b)fluoranthene	8000		ug/kg	550	160	5
Benzo(k)fluoranthene	2300		ug/kg	550	150	5
Chrysene	6900		ug/kg	550	96.	5
Acenaphthylene	620	J	ug/kg	740	140	5
Anthracene	2200		ug/kg	550	180	5
Benzo(ghi)perylene	3700		ug/kg	740	110	5
Fluorene	660	J	ug/kg	920	90.	5
Phenanthrene	15000		ug/kg	550	110	5
Dibenzo(a,h)anthracene	860		ug/kg	550	110	5
Indeno(1,2,3-cd)pyrene	3700		ug/kg	740	130	5
Pyrene	14000		ug/kg	550	92.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	131	Q	23-120
2-Fluorobiphenyl	92		30-120
4-Terphenyl-d14	69		18-120

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/02/20 23:26
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 09/02/20 14:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1405766-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
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.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	48		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1405766-2 WG1405766-3								
Acenaphthene	69		60		31-137	14		50
Fluoranthene	64		57		40-140	12		50
Benzo(a)anthracene	69		62		40-140	11		50
Benzo(a)pyrene	71		65		40-140	9		50
Benzo(b)fluoranthene	70		64		40-140	9		50
Benzo(k)fluoranthene	67		61		40-140	9		50
Chrysene	68		62		40-140	9		50
Acenaphthylene	71		63		40-140	12		50
Anthracene	69		62		40-140	11		50
Benzo(ghi)perylene	70		64		40-140	9		50
Fluorene	65		59		40-140	10		50
Phenanthrene	66		59		40-140	11		50
Dibenzo(a,h)anthracene	69		61		40-140	12		50
Indeno(1,2,3-cd)pyrene	68		60		40-140	13		50
Pyrene	66		58		35-142	13		50

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		62		25-120
Phenol-d6	72		65		10-120
Nitrobenzene-d5	84		79		23-120
2-Fluorobiphenyl	68		61		30-120
2,4,6-Tribromophenol	54		48		10-136
4-Terphenyl-d14	58		52		18-120

METALS

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01

Date Collected: 09/01/20 12:10

Client ID: SB006 (8-10)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.30		mg/kg	0.418	0.087	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Barium, Total	14.8		mg/kg	0.418	0.073	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Cadmium, Total	0.618		mg/kg	0.418	0.041	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Chromium, Total	10.9		mg/kg	0.418	0.040	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Lead, Total	3.31		mg/kg	2.09	0.112	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.044	1	09/03/20 06:20	09/03/20 09:55	EPA 7471B	1,7471B	EW
Selenium, Total	ND		mg/kg	0.835	0.108	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.418	0.118	1	09/03/20 08:30	09/03/20 12:30	EPA 3050B	1,6010D	LC



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02

Date Collected: 09/01/20 12:25

Client ID: SB006 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.49		mg/kg	0.492	0.102	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Barium, Total	38.1		mg/kg	0.492	0.086	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Cadmium, Total	0.482	J	mg/kg	0.492	0.048	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Chromium, Total	16.2		mg/kg	0.492	0.047	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Lead, Total	16.7		mg/kg	2.46	0.132	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Mercury, Total	0.118		mg/kg	0.078	0.051	1	09/03/20 06:20	09/03/20 09:59	EPA 7471B	1,7471B	EW
Selenium, Total	0.138	J	mg/kg	0.984	0.127	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.492	0.139	1	09/03/20 08:30	09/03/20 13:57	EPA 3050B	1,6010D	LC

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03

Date Collected: 09/01/20 12:05

Client ID: SB003 (4-6)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, 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											
Arsenic, Total	3.51		mg/kg	0.441	0.092	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Barium, Total	20.6		mg/kg	0.441	0.077	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Cadmium, Total	0.436	J	mg/kg	0.441	0.043	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Chromium, Total	19.2		mg/kg	0.441	0.042	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Lead, Total	8.30		mg/kg	2.20	0.118	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.048	1	09/03/20 06:20	09/03/20 10:08	EPA 7471B	1,7471B	EW
Selenium, Total	ND		mg/kg	0.882	0.114	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.441	0.125	1	09/03/20 08:30	09/03/20 14:11	EPA 3050B	1,6010D	BV

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04

Date Collected: 09/01/20 12:15

Client ID: SB004 (4-6)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.44		mg/kg	0.440	0.092	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Barium, Total	9.17		mg/kg	0.440	0.077	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Cadmium, Total	0.537		mg/kg	0.440	0.043	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Chromium, Total	18.0		mg/kg	0.440	0.042	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Lead, Total	9.06		mg/kg	2.20	0.118	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.048	1	09/03/20 06:20	09/03/20 10:12	EPA 7471B	1,7471B	EW
Selenium, Total	ND		mg/kg	0.880	0.114	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.440	0.124	1	09/03/20 08:30	09/03/20 14:15	EPA 3050B	1,6010D	BV



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05

Date Collected: 09/01/20 12:00

Client ID: SB004 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.55		mg/kg	0.454	0.094	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Barium, Total	34.0		mg/kg	0.454	0.079	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Cadmium, Total	0.295	J	mg/kg	0.454	0.045	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Chromium, Total	8.55		mg/kg	0.454	0.044	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Lead, Total	37.3		mg/kg	2.27	0.122	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Mercury, Total	0.555		mg/kg	0.074	0.048	1	09/03/20 06:20	09/03/20 10:15	EPA 7471B	1,7471B	EW
Selenium, Total	0.300	J	mg/kg	0.908	0.117	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.454	0.128	1	09/03/20 08:30	09/03/20 14:20	EPA 3050B	1,6010D	BV

Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06

Date Collected: 09/01/20 12:20

Client ID: SB003 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.73		mg/kg	0.434	0.090	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Barium, Total	44.6		mg/kg	0.434	0.076	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Cadmium, Total	0.600		mg/kg	0.434	0.043	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Chromium, Total	14.1		mg/kg	0.434	0.042	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Lead, Total	133		mg/kg	2.17	0.116	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Mercury, Total	0.453		mg/kg	0.070	0.046	1	09/03/20 06:20	09/03/20 10:18	EPA 7471B	1,7471B	EW
Selenium, Total	0.400	J	mg/kg	0.869	0.112	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.434	0.123	1	09/03/20 08:30	09/03/20 14:24	EPA 3050B	1,6010D	BV



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

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: WG1405869-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	09/03/20 08:30	09/03/20 12:21	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1406005-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	09/03/20 06:20	09/03/20 09:16	1,7471B	EW

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1405869-2 SRM Lot Number: D109-540								
Arsenic, Total	103		-		70-130	-		
Barium, Total	90		-		75-125	-		
Cadmium, Total	93		-		75-125	-		
Chromium, Total	95		-		70-130	-		
Lead, Total	102		-		72-128	-		
Selenium, Total	102		-		68-132	-		
Silver, Total	104		-		68-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1406005-2 SRM Lot Number: D109-540								
Mercury, Total	103		-		60-140	-		

Matrix Spike Analysis Batch Quality Control

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

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: WG1405869-3 QC Sample: L2036231-01 Client ID: SB006 (8-10)												
Arsenic, Total	1.30	9.96	9.89	86		-	-		75-125	-		20
Barium, Total	14.8	166	152	83		-	-		75-125	-		20
Cadmium, Total	0.618	4.23	4.25	86		-	-		75-125	-		20
Chromium, Total	10.9	16.6	25.8	90		-	-		75-125	-		20
Lead, Total	3.31	42.3	38.7	84		-	-		75-125	-		20
Selenium, Total	ND	9.96	8.21	82		-	-		75-125	-		20
Silver, Total	ND	24.9	21.9	88		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1406005-3 WG1406005-4 QC Sample: L2036366-04 Client ID: MS Sample												
Mercury, Total	1.31	1.36	1.93	46	Q	2.15	62	Q	80-120	11		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1406005-5 WG1406005-6 QC Sample: L2036374-01 Client ID: MS Sample												
Mercury, Total	ND	1.36	1.44	106		1.42	104		80-120	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1405869-4 QC Sample: L2036231-01 Client ID: SB006 (8-10)						
Arsenic, Total	1.30	1.55	mg/kg	18		20
Barium, Total	14.8	17.6	mg/kg	17		20
Cadmium, Total	0.618	0.790	mg/kg	24	Q	20
Chromium, Total	10.9	19.5	mg/kg	57	Q	20
Lead, Total	3.31	4.17	mg/kg	23	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-01

Client ID: SB006 (8-10)

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Date Collected: 09/01/20 12:10

Date Received: 09/02/20

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-02

Date Collected: 09/01/20 12:25

Client ID: SB006 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-03

Date Collected: 09/01/20 12:05

Client ID: SB003 (4-6)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-04

Date Collected: 09/01/20 12:15

Client ID: SB004 (4-6)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-05

Date Collected: 09/01/20 12:00

Client ID: SB004 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036231

Project Number: TOT2003

Report Date: 09/04/20

SAMPLE RESULTS

Lab ID: L2036231-06

Date Collected: 09/01/20 12:20

Client ID: SB003 (0-2)

Date Received: 09/02/20

Sample Location: 1061 ATLANTIC AVE., BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	09/03/20 07:58	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036231

Report Date: 09/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1406028-1 QC Sample: L2036231-01 Client ID: SB006 (8-10)						
Solids, Total	93.4	93.7	%	0		20

Project Name: TOT2003**Lab Number:** L2036231**Project Number:** TOT2003**Report Date:** 09/04/20**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(*)
L2036231-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-01B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-01C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-01D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036231-01F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036231-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-02B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-02C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036231-02F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036231-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-03B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-03C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036231-03F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036231-04A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-04B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)

Project Name: TOT2003**Lab Number:** L2036231**Project Number:** TOT2003**Report Date:** 09/04/20**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2036231-04C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-04D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2036231-04F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036231-05A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-05B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-05C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-05D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036231-05F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036231-06A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036231-06B	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-06C	Vial water preserved	A	NA		3.2	Y	Absent	02-SEP-20 23:19	NYTCL-8260HLW(14)
L2036231-06D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036231-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036231-06F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036231
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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.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: TOT2003
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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. 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.
- 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.

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- 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: TOT2003
Project Number: TOT2003

Lab Number: L2036231
Report Date: 09/04/20

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.



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: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page of	Date Rec'd in Lab 9/2/20	ALPHA Job # L2036231
		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			
Client Information		Project Information		Deliverables		Billing Information
Client: PWG1 Address: 630 Johnson Ave Bunemig NY 11716 Phone: 631-584-6253 Fax: [blank] Email: mgaw@pwgrossen.com		Project Name: TOT2003 Project Location: 10601 Atlantic Ave Brooklyn NY Project # TOT2003 (Use Project name as Project #) <input checked="" type="checkbox"/>		<input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #
Regulatory Requirement		Disposal Site Information		Turn-Around Time		Project Manager: Mike Grawl
<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days: 2 days		ALPHAQuote #:
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration
Other project specific requirements/comments:				TCL VOCs RCRA Metals CP-SI SVOCs		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
Please specify Metals or TAL.						Sample Specific Comments
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	Total Bottle
36231-01	S8006 (8-10)	9/1/20	1210	S	SC	3
-02	S8006 (0-2)		1225			3
-03	S8003 (4-6)		1205			3
-04	S8004 (4-6)		1215			3
-05	S8004 (0-2)		1200			3
-06	S8003 (0-2)		1220			3
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
Container Type		Preservative		Relinquished By: [Signature] Date/Time: 9/2/20 10:00 [Signature] Date/Time: 9/2/20 14:35 [Signature] Date/Time: 9/2/20 2:11		



ANALYTICAL REPORT

Lab Number:	L2036550
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Michael Gaul
Phone:	(631) 589-6353
Project Name:	TOT2003
Project Number:	TOT2003
Report Date:	09/09/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), 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: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2036550-01	SV003	SOIL_VAPOR	1061 ATLANTIC AVE. BROOKLYN, NY	09/03/20 12:46	09/03/20
L2036550-02	SV004	SOIL_VAPOR	1061 ATLANTIC AVE. BROOKLYN, NY	09/03/20 12:40	09/03/20
L2036550-03	UNUSED CAN #464	SOIL_VAPOR	1061 ATLANTIC AVE. BROOKLYN, NY		09/03/20

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

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: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

Case Narrative (continued)

Report Revision

September 9, 2020: This report replaces the one previously issued on September 8, 2020. The results for 1,1,2,2-tetrachloroethane have been amended on L2036550-02.

Volatile Organics in Air

Canisters were released from the laboratory on September 3, 2020. The canister certification results are provided as an addendum.

L2036550-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 09/09/20

AIR

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

SAMPLE RESULTS

Lab ID: L2036550-01 D
 Client ID: SV003
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:46
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/05/20 23:37
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.75	--	ND	38.3	--		38.76
Chloromethane	94.5	7.75	--	195	16.0	--		38.76
Freon-114	ND	7.75	--	ND	54.2	--		38.76
Vinyl chloride	ND	7.75	--	ND	19.8	--		38.76
1,3-Butadiene	ND	7.75	--	ND	17.1	--		38.76
Bromomethane	ND	7.75	--	ND	30.1	--		38.76
Chloroethane	ND	7.75	--	ND	20.5	--		38.76
Ethanol	ND	194	--	ND	366	--		38.76
Vinyl bromide	ND	7.75	--	ND	33.9	--		38.76
Acetone	120	38.8	--	285	92.2	--		38.76
Trichlorofluoromethane	ND	7.75	--	ND	43.6	--		38.76
Isopropanol	47.6	19.4	--	117	47.7	--		38.76
1,1-Dichloroethene	ND	7.75	--	ND	30.7	--		38.76
Tertiary butyl Alcohol	85.4	19.4	--	259	58.8	--		38.76
Methylene chloride	ND	19.4	--	ND	67.4	--		38.76
3-Chloropropene	ND	7.75	--	ND	24.3	--		38.76
Carbon disulfide	33.5	7.75	--	104	24.1	--		38.76
Freon-113	ND	7.75	--	ND	59.4	--		38.76
trans-1,2-Dichloroethene	ND	7.75	--	ND	30.7	--		38.76
1,1-Dichloroethane	ND	7.75	--	ND	31.4	--		38.76
Methyl tert butyl ether	ND	7.75	--	ND	27.9	--		38.76
2-Butanone	34.6	19.4	--	102	57.2	--		38.76
cis-1,2-Dichloroethene	ND	7.75	--	ND	30.7	--		38.76



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

SAMPLE RESULTS

Lab ID: L2036550-01 D
 Client ID: SV003
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:46
 Date Received: 09/03/20
 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	19.4	--	ND	69.9	--		38.76
Chloroform	ND	7.75	--	ND	37.8	--		38.76
Tetrahydrofuran	ND	19.4	--	ND	57.2	--		38.76
1,2-Dichloroethane	ND	7.75	--	ND	31.4	--		38.76
n-Hexane	33.7	7.75	--	119	27.3	--		38.76
1,1,1-Trichloroethane	ND	7.75	--	ND	42.3	--		38.76
Benzene	9.88	7.75	--	31.6	24.8	--		38.76
Carbon tetrachloride	ND	7.75	--	ND	48.8	--		38.76
Cyclohexane	77.0	7.75	--	265	26.7	--		38.76
1,2-Dichloropropane	ND	7.75	--	ND	35.8	--		38.76
Bromodichloromethane	ND	7.75	--	ND	51.9	--		38.76
1,4-Dioxane	ND	7.75	--	ND	27.9	--		38.76
Trichloroethene	10.3	7.75	--	55.4	41.7	--		38.76
2,2,4-Trimethylpentane	ND	7.75	--	ND	36.2	--		38.76
Heptane	226	7.75	--	926	31.8	--		38.76
cis-1,3-Dichloropropene	ND	7.75	--	ND	35.2	--		38.76
4-Methyl-2-pentanone	ND	19.4	--	ND	79.5	--		38.76
trans-1,3-Dichloropropene	ND	7.75	--	ND	35.2	--		38.76
1,1,2-Trichloroethane	ND	7.75	--	ND	42.3	--		38.76
Toluene	15.2	7.75	--	57.3	29.2	--		38.76
2-Hexanone	ND	7.75	--	ND	31.8	--		38.76
Dibromochloromethane	ND	7.75	--	ND	66.0	--		38.76
1,2-Dibromoethane	ND	7.75	--	ND	59.6	--		38.76
Tetrachloroethene	ND	7.75	--	ND	52.6	--		38.76
Chlorobenzene	ND	7.75	--	ND	35.7	--		38.76
Ethylbenzene	318	7.75	--	1380	33.7	--		38.76



Project Name: TOT2003**Lab Number:** L2036550**Project Number:** TOT2003**Report Date:** 09/09/20**SAMPLE RESULTS**

Lab ID: L2036550-01 D
 Client ID: SV003
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:46
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	764	15.5	--	3320	67.3	--		38.76
Bromoform	ND	7.75	--	ND	80.1	--		38.76
Styrene	ND	7.75	--	ND	33.0	--		38.76
1,1,2,2-Tetrachloroethane	ND	7.75	--	ND	53.2	--		38.76
o-Xylene	245	7.75	--	1060	33.7	--		38.76
4-Ethyltoluene	53.3	7.75	--	262	38.1	--		38.76
1,3,5-Trimethylbenzene	86.1	7.75	--	423	38.1	--		38.76
1,2,4-Trimethylbenzene	74.0	7.75	--	364	38.1	--		38.76
Benzyl chloride	ND	7.75	--	ND	40.1	--		38.76
1,3-Dichlorobenzene	ND	7.75	--	ND	46.6	--		38.76
1,4-Dichlorobenzene	ND	7.75	--	ND	46.6	--		38.76
1,2-Dichlorobenzene	ND	7.75	--	ND	46.6	--		38.76
1,2,4-Trichlorobenzene	ND	7.75	--	ND	57.5	--		38.76
Hexachlorobutadiene	ND	7.75	--	ND	82.7	--		38.76

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	105		60-140



Project Name: TOT2003**Lab Number:** L2036550**Project Number:** TOT2003**Report Date:** 09/09/20**SAMPLE RESULTS**

Lab ID: L2036550-02 D
 Client ID: SV004
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:40
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 09/06/20 00:17
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.40	--	ND	36.6	--		36.98
Chloromethane	ND	7.40	--	ND	15.3	--		36.98
Freon-114	ND	7.40	--	ND	51.7	--		36.98
Vinyl chloride	ND	7.40	--	ND	18.9	--		36.98
1,3-Butadiene	8.69	7.40	--	19.2	16.4	--		36.98
Bromomethane	ND	7.40	--	ND	28.7	--		36.98
Chloroethane	ND	7.40	--	ND	19.5	--		36.98
Ethanol	ND	185	--	ND	349	--		36.98
Vinyl bromide	ND	7.40	--	ND	32.4	--		36.98
Acetone	191	37.0	--	454	87.9	--		36.98
Trichlorofluoromethane	ND	7.40	--	ND	41.6	--		36.98
Isopropanol	42.0	18.5	--	103	45.5	--		36.98
1,1-Dichloroethene	ND	7.40	--	ND	29.3	--		36.98
Tertiary butyl Alcohol	53.2	18.5	--	161	56.1	--		36.98
Methylene chloride	ND	18.5	--	ND	64.3	--		36.98
3-Chloropropene	ND	7.40	--	ND	23.2	--		36.98
Carbon disulfide	20.4	7.40	--	63.5	23.0	--		36.98
Freon-113	ND	7.40	--	ND	56.7	--		36.98
trans-1,2-Dichloroethene	ND	7.40	--	ND	29.3	--		36.98
1,1-Dichloroethane	ND	7.40	--	ND	30.0	--		36.98
Methyl tert butyl ether	ND	7.40	--	ND	26.7	--		36.98
2-Butanone	54.6	18.5	--	161	54.6	--		36.98
cis-1,2-Dichloroethene	ND	7.40	--	ND	29.3	--		36.98



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

SAMPLE RESULTS

Lab ID: L2036550-02 D
 Client ID: SV004
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:40
 Date Received: 09/03/20
 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	18.5	--	ND	66.7	--		36.98
Chloroform	ND	7.40	--	ND	36.1	--		36.98
Tetrahydrofuran	ND	18.5	--	ND	54.6	--		36.98
1,2-Dichloroethane	ND	7.40	--	ND	30.0	--		36.98
n-Hexane	12.3	7.40	--	43.3	26.1	--		36.98
1,1,1-Trichloroethane	ND	7.40	--	ND	40.4	--		36.98
Benzene	26.2	7.40	--	83.7	23.6	--		36.98
Carbon tetrachloride	ND	7.40	--	ND	46.5	--		36.98
Cyclohexane	35.8	7.40	--	123	25.5	--		36.98
1,2-Dichloropropane	ND	7.40	--	ND	34.2	--		36.98
Bromodichloromethane	ND	7.40	--	ND	49.6	--		36.98
1,4-Dioxane	ND	7.40	--	ND	26.7	--		36.98
Trichloroethene	ND	7.40	--	ND	39.8	--		36.98
2,2,4-Trimethylpentane	ND	7.40	--	ND	34.6	--		36.98
Heptane	190	7.40	--	779	30.3	--		36.98
cis-1,3-Dichloropropene	ND	7.40	--	ND	33.6	--		36.98
4-Methyl-2-pentanone	ND	18.5	--	ND	75.8	--		36.98
trans-1,3-Dichloropropene	ND	7.40	--	ND	33.6	--		36.98
1,1,2-Trichloroethane	ND	7.40	--	ND	40.4	--		36.98
Toluene	56.5	7.40	--	213	27.9	--		36.98
2-Hexanone	ND	7.40	--	ND	30.3	--		36.98
Dibromochloromethane	ND	7.40	--	ND	63.0	--		36.98
1,2-Dibromoethane	ND	7.40	--	ND	56.9	--		36.98
Tetrachloroethene	ND	7.40	--	ND	50.2	--		36.98
Chlorobenzene	ND	7.40	--	ND	34.1	--		36.98
Ethylbenzene	504	7.40	--	2190	32.1	--		36.98



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

SAMPLE RESULTS

Lab ID: L2036550-02 D
 Client ID: SV004
 Sample Location: 1061 ATLANTIC AVE. BROOKLYN, NY

Date Collected: 09/03/20 12:40
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1400	14.8	--	6080	64.3	--		36.98
Bromoform	ND	7.40	--	ND	76.5	--		36.98
Styrene	ND	7.40	--	ND	31.5	--		36.98
1,1,2,2-Tetrachloroethane	ND	7.40	--	ND	50.8	--		36.98
o-Xylene	456	7.40	--	1980	32.1	--		36.98
4-Ethyltoluene	36.8	7.40	--	181	36.4	--		36.98
1,3,5-Trimethylbenzene	52.9	7.40	--	260	36.4	--		36.98
1,2,4-Trimethylbenzene	53.9	7.40	--	265	36.4	--		36.98
Benzyl chloride	ND	7.40	--	ND	38.3	--		36.98
1,3-Dichlorobenzene	ND	7.40	--	ND	44.5	--		36.98
1,4-Dichlorobenzene	ND	7.40	--	ND	44.5	--		36.98
1,2-Dichlorobenzene	ND	7.40	--	ND	44.5	--		36.98
1,2,4-Trichlorobenzene	ND	7.40	--	ND	54.9	--		36.98
Hexachlorobutadiene	ND	7.40	--	ND	78.9	--		36.98

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	100		60-140



Project Name: TOT2003

Lab Number: L2036550

Project Number: TOT2003

Report Date: 09/09/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/05/20 16:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1407085-4								
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
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



Project Name: TOT2003

Lab Number: L2036550

Project Number: TOT2003

Report Date: 09/09/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/05/20 16:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1407085-4								
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
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: TOT2003

Lab Number: L2036550

Project Number: TOT2003

Report Date: 09/09/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/05/20 16:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1407085-4								
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: TOT2003

Project Number: TOT2003

Lab Number: L2036550

Report Date: 09/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1407085-3								
Dichlorodifluoromethane	87		-		70-130	-		
Chloromethane	84		-		70-130	-		
Freon-114	87		-		70-130	-		
Vinyl chloride	88		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethanol	77		-		40-160	-		
Vinyl bromide	89		-		70-130	-		
Acetone	75		-		40-160	-		
Trichlorofluoromethane	90		-		70-130	-		
Isopropanol	78		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	85		-		70-130	-		
Methylene chloride	94		-		70-130	-		
3-Chloropropene	106		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	103		-		70-130	-		
trans-1,2-Dichloroethene	116		-		70-130	-		
1,1-Dichloroethane	121		-		70-130	-		
Methyl tert butyl ether	101		-		70-130	-		
2-Butanone	119		-		70-130	-		
cis-1,2-Dichloroethene	126		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036550

Report Date: 09/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1407085-3								
Ethyl Acetate	106		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	101		-		70-130	-		
1,2-Dichloroethane	99		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	97		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	100		-		70-130	-		
1,2-Dichloropropane	104		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	102		-		70-130	-		
Heptane	100		-		70-130	-		
cis-1,3-Dichloropropene	99		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	99		-		70-130	-		
2-Hexanone	101		-		70-130	-		
Dibromochloromethane	103		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036550

Report Date: 09/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1407085-3								
Tetrachloroethene	99		-		70-130	-		
Chlorobenzene	98		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	102		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	103		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Benzyl chloride	101		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	99		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
1,2,4-Trichlorobenzene	96		-		70-130	-		
Hexachlorobutadiene	105		-		70-130	-		

Project Name: TOT2003

Project Number: TOT2003

Serial_No:09092012:59
Lab Number: L2036550

Report Date: 09/09/20

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
L2036550-01	SV003	0215	Flow 3	09/03/20	329409		-	-	-	Pass	18.0	17.6	2
L2036550-01	SV003	2019	2.7L Can	09/03/20	329409	L2034895-01	Pass	-29.3	-7.8	-	-	-	-
L2036550-02	SV004	01785	Flow 3	09/03/20	329409		-	-	-	Pass	18.0	17.8	1
L2036550-02	SV004	2820	2.7L Can	09/03/20	329409	L2034895-01	Pass	-29.1	-6.9	-	-	-	-
L2036550-03	UNUSED CAN #464	0676	Flow 4	09/03/20	329409		-	-	-	Pass	18.0	15.0	18
L2036550-03	UNUSED CAN #464	464	2.7L Can	09/03/20	329409	L2034895-01	Pass	-28.6	-28.6	-	-	-	-

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

Lab Number: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/26/20 18:08
 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: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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
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: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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
Project Number: CANISTER QC BAT

Lab Number: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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	89		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	84		60-140

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

Lab Number: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/26/20 18:08
 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: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

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

Lab Number: L2034895
Report Date: 09/09/20

Air Canister Certification Results

Lab ID: L2034895-01
 Client ID: CAN 2392 SHELF 15
 Sample Location:

Date Collected: 08/25/20 16:00
 Date Received: 08/26/20
 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	118		60-140
bromochloromethane	119		60-140
chlorobenzene-d5	112		60-140

Project Name: TOT2003**Lab Number:** L2036550**Project Number:** TOT2003**Report Date:** 09/09/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2036550-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2036550-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2036550-03A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		CLEAN-FEE()

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

- 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. 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 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

Report Format: Data Usability Report



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

Data Qualifiers

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: TOT2003
Project Number: TOT2003

Lab Number: L2036550
Report Date: 09/09/20

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

PAGE 1 OF 1

Date Rec'd in Lab: 9/14/20

ALPHA Job #: L2036550

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: T6T2003
Project Location: 1061 Atlantic Ave Brookline MA
Project #: T0T2003
Project Manager: Mike Gaul
ALPHA Quote #:

Report Information - Data Deliverables

FAX
 ADEX
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

Same as Client info PO #: _____

Client Information

Client: PWAC
Address: 630 Johnson Ave Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: mgaul@pwgrasser.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 2 days Time:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

ANALYSIS

TO-15
 TO-15 SIM
 APH Subnet Non-petroleum HCs
 Fixed Gases
 Sulfoxides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfoxides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<u>36550-01</u>	<u>SV003</u>	<u>9/3/20</u>	<u>1046</u>	<u>1246</u>	<u>-29.87</u>	<u>8.21</u>	<u>SV</u>	<u>JC</u>	<u>2.7</u>	<u>2619</u>	<u>6215</u>	<u>X</u>					
<u>02</u>	<u>SV004</u>	<u>↓</u>	<u>1040</u>	<u>1240</u>	<u>-29.75</u>	<u>7.25</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>4404</u>	<u>01785</u>	<u>X</u>					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: [Signature] Date/Time: 9/3/20 1500
Received By: [Signature] Date/Time: 9-3-20 1530
9/3 03:30



ANALYTICAL REPORT

Lab Number:	L2036570
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Michael Gaul
Phone:	(631) 589-6353
Project Name:	TOT2003
Project Number:	TOT2003
Report Date:	09/08/20

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2036570-01	SB008 (0-2)	SOIL	1061 ATLANTIC AVE, BROOKLYN, NY	09/03/20 10:00	09/03/20
L2036570-02	SB009 (0-2)	SOIL	1061 ATLANTIC AVE, BROOKLYN, NY	09/03/20 10:30	09/03/20
L2036570-03	SB010 (0-2)	SOIL	1061 ATLANTIC AVE, BROOKLYN, NY	09/03/20 11:00	09/03/20

Project Name: TOT2003**Lab Number:** L2036570**Project Number:** TOT2003**Report Date:** 09/08/20

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: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2036570-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (144%); 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.

L2036570-03: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (135%); 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 Mercury

The WG1406657-3 MS recovery, performed on L2036570-01, is outside the acceptance criteria for mercury (4%). A post digestion spike was performed and was within acceptance criteria.

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

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 09/08/20

ORGANICS

VOLATILES

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01
 Client ID: SB008 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/04/20 13:48
 Analyst: JC
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.1	1
Chloroform	ND		ug/kg	84	7.8	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.0	1
Dibromochloromethane	ND		ug/kg	56	7.8	1
1,1,2-Trichloroethane	ND		ug/kg	56	15.	1
Tetrachloroethene	ND		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.1	1
Trichlorofluoromethane	ND		ug/kg	220	39.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.3	1
Bromodichloromethane	ND		ug/kg	28	6.1	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.8	1
1,3-Dichloropropene, Total	ND		ug/kg	28	8.8	1
1,1-Dichloropropene	ND		ug/kg	28	8.9	1
Bromoform	ND		ug/kg	220	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.3	1
Benzene	ND		ug/kg	28	9.3	1
Toluene	ND		ug/kg	56	30.	1
Ethylbenzene	780		ug/kg	56	7.9	1
Chloromethane	ND		ug/kg	220	52.	1
Bromomethane	ND		ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	56	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	84	7.6	1

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01
 Client ID: SB008 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:00
 Date Received: 09/03/20
 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	28	7.6	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.0	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.3	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.6	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	3400		ug/kg	110	31.	1
o-Xylene	1400		ug/kg	56	16.	1
Xylenes, Total	4800		ug/kg	56	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	9.8	1
1,2-Dichloroethene, Total	ND		ug/kg	56	7.6	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	51.	1
Acetone	290	J	ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	250	1
2-Butanone	220	J	ug/kg	560	120	1
Vinyl acetate	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.1	1
2-Hexanone	ND		ug/kg	560	66.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
1,3-Dichloropropane	ND		ug/kg	110	9.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	28	7.4	1
Bromobenzene	ND		ug/kg	110	8.1	1
n-Butylbenzene	1200		ug/kg	56	9.3	1
sec-Butylbenzene	900		ug/kg	56	8.2	1
tert-Butylbenzene	62	J	ug/kg	110	6.6	1
o-Chlorotoluene	ND		ug/kg	110	11.	1
p-Chlorotoluene	ND		ug/kg	110	6.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Hexachlorobutadiene	ND		ug/kg	220	9.4	1
Isopropylbenzene	440		ug/kg	56	6.1	1
p-Isopropyltoluene	870		ug/kg	56	6.1	1
Naphthalene	6100		ug/kg	220	36.	1
Acrylonitrile	ND		ug/kg	220	64.	1

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01

Date Collected: 09/03/20 10:00

Client ID: SB008 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, 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	760		ug/kg	56	9.6	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	2000		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	5000		ug/kg	110	19.	1
1,4-Dioxane	ND		ug/kg	4500	2000	1
p-Diethylbenzene	ND		ug/kg	110	9.9	1
p-Ethyltoluene	3400		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	2800		ug/kg	110	11.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	91		70-130

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02
 Client ID: SB009 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:30
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/04/20 14:38
 Analyst: MKS
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	3.6		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02

Date Collected: 09/03/20 10:30

Client ID: SB009 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, 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	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	18		ug/kg	2.1	0.60	1
o-Xylene	17		ug/kg	1.1	0.31	1
Xylenes, Total	35		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	61		ug/kg	11	5.1	1
Carbon disulfide	5.4	J	ug/kg	11	4.8	1
2-Butanone	8.6	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	8.6		ug/kg	1.1	0.18	1
sec-Butylbenzene	7.1		ug/kg	1.1	0.16	1
tert-Butylbenzene	1.0	J	ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	3.0		ug/kg	1.1	0.12	1
p-Isopropyltoluene	9.9		ug/kg	1.1	0.12	1
Naphthalene	100		ug/kg	4.3	0.69	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02
Client ID: SB009 (0-2)
Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:30
Date Received: 09/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	4.5		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	30		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	53		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	6.6		ug/kg	2.1	0.19	1
p-Ethyltoluene	38		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	39		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	144	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03
 Client ID: SB010 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 11:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/04/20 14:13
 Analyst: JC
 Percent Solids: 90%

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	52	7.6	1
Chloroform	ND		ug/kg	78	7.3	1
Carbon tetrachloride	ND		ug/kg	52	12.	1
1,2-Dichloropropane	ND		ug/kg	52	6.5	1
Dibromochloromethane	ND		ug/kg	52	7.3	1
1,1,2-Trichloroethane	ND		ug/kg	52	14.	1
Tetrachloroethene	ND		ug/kg	26	10.	1
Chlorobenzene	ND		ug/kg	26	6.6	1
Trichlorofluoromethane	ND		ug/kg	210	36.	1
1,2-Dichloroethane	ND		ug/kg	52	13.	1
1,1,1-Trichloroethane	ND		ug/kg	26	8.7	1
Bromodichloromethane	ND		ug/kg	26	5.7	1
trans-1,3-Dichloropropene	ND		ug/kg	52	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	26	8.2	1
1,3-Dichloropropene, Total	ND		ug/kg	26	8.2	1
1,1-Dichloropropene	ND		ug/kg	26	8.3	1
Bromoform	ND		ug/kg	210	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	8.6	1
Benzene	ND		ug/kg	26	8.6	1
Toluene	ND		ug/kg	52	28.	1
Ethylbenzene	930		ug/kg	52	7.4	1
Chloromethane	ND		ug/kg	210	48.	1
Bromomethane	ND		ug/kg	100	30.	1
Vinyl chloride	ND		ug/kg	52	17.	1
Chloroethane	ND		ug/kg	100	24.	1
1,1-Dichloroethene	ND		ug/kg	52	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	78	7.1	1

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03
 Client ID: SB010 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 11:00
 Date Received: 09/03/20
 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	7.1	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.5	1
1,3-Dichlorobenzene	ND		ug/kg	100	7.7	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.9	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	4700		ug/kg	100	29.	1
o-Xylene	2000		ug/kg	52	15.	1
Xylenes, Total	6700		ug/kg	52	15.	1
cis-1,2-Dichloroethene	ND		ug/kg	52	9.1	1
1,2-Dichloroethene, Total	ND		ug/kg	52	7.1	1
Dibromomethane	ND		ug/kg	100	12.	1
Styrene	ND		ug/kg	52	10.	1
Dichlorodifluoromethane	ND		ug/kg	520	48.	1
Acetone	360	J	ug/kg	520	250	1
Carbon disulfide	ND		ug/kg	520	240	1
2-Butanone	250	J	ug/kg	520	120	1
Vinyl acetate	ND		ug/kg	520	110	1
4-Methyl-2-pentanone	ND		ug/kg	520	67.	1
1,2,3-Trichloropropane	ND		ug/kg	100	6.6	1
2-Hexanone	ND		ug/kg	520	62.	1
Bromochloromethane	ND		ug/kg	100	11.	1
2,2-Dichloropropane	ND		ug/kg	100	10.	1
1,2-Dibromoethane	ND		ug/kg	52	14.	1
1,3-Dichloropropane	ND		ug/kg	100	8.7	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	26	6.9	1
Bromobenzene	ND		ug/kg	100	7.6	1
n-Butylbenzene	2800		ug/kg	52	8.7	1
sec-Butylbenzene	1300		ug/kg	52	7.6	1
tert-Butylbenzene	74	J	ug/kg	100	6.2	1
o-Chlorotoluene	ND		ug/kg	100	10.	1
p-Chlorotoluene	ND		ug/kg	100	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	52.	1
Hexachlorobutadiene	ND		ug/kg	210	8.8	1
Isopropylbenzene	700		ug/kg	52	5.7	1
p-Isopropyltoluene	990		ug/kg	52	5.7	1
Naphthalene	10000		ug/kg	210	34.	1
Acrylonitrile	ND		ug/kg	210	60.	1

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03

Date Collected: 09/03/20 11:00

Client ID: SB010 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, 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	1300		ug/kg	52	8.9	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	3100		ug/kg	100	10.	1
1,2,4-Trimethylbenzene	9800		ug/kg	100	17.	1
1,4-Dioxane	ND		ug/kg	4200	1800	1
p-Diethylbenzene	680		ug/kg	100	9.2	1
p-Ethyltoluene	6100		ug/kg	100	20.	1
1,2,4,5-Tetramethylbenzene	2900		ug/kg	100	10.	1
Ethyl ether	ND		ug/kg	100	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	260	74.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	135	Q	70-130
Dibromofluoromethane	90		70-130

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03 Batch: WG1406787-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03 Batch: WG1406787-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03 Batch: WG1406787-5					
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	117		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1406791-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1406791-5					
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: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/04/20 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1406791-5					
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	117		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03 Batch: WG1406787-3 WG1406787-4								
Methylene chloride	82		79		70-130	4		30
1,1-Dichloroethane	101		96		70-130	5		30
Chloroform	84		81		70-130	4		30
Carbon tetrachloride	85		82		70-130	4		30
1,2-Dichloropropane	99		96		70-130	3		30
Dibromochloromethane	82		80		70-130	2		30
1,1,2-Trichloroethane	90		88		70-130	2		30
Tetrachloroethene	90		86		70-130	5		30
Chlorobenzene	82		80		70-130	2		30
Trichlorofluoromethane	94		88		70-139	7		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	87		84		70-130	4		30
Bromodichloromethane	82		80		70-130	2		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	89		85		70-130	5		30
1,1-Dichloropropene	90		87		70-130	3		30
Bromoform	78		77		70-130	1		30
1,1,2,2-Tetrachloroethane	90		87		70-130	3		30
Benzene	86		83		70-130	4		30
Toluene	87		86		70-130	1		30
Ethylbenzene	89		87		70-130	2		30
Chloromethane	129		120		52-130	7		30
Bromomethane	101		96		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03 Batch: WG1406787-3 WG1406787-4								
Vinyl chloride	103		97		67-130	6		30
Chloroethane	88		82		50-151	7		30
1,1-Dichloroethene	91		87		65-135	4		30
trans-1,2-Dichloroethene	85		81		70-130	5		30
Trichloroethene	86		82		70-130	5		30
1,2-Dichlorobenzene	83		81		70-130	2		30
1,3-Dichlorobenzene	84		81		70-130	4		30
1,4-Dichlorobenzene	82		79		70-130	4		30
Methyl tert butyl ether	83		80		66-130	4		30
p/m-Xylene	86		84		70-130	2		30
o-Xylene	86		85		70-130	1		30
cis-1,2-Dichloroethene	83		79		70-130	5		30
Dibromomethane	82		79		70-130	4		30
Styrene	87		84		70-130	4		30
Dichlorodifluoromethane	124		119		30-146	4		30
Acetone	132		124		54-140	6		30
Carbon disulfide	94		88		59-130	7		30
2-Butanone	107		99		70-130	8		30
Vinyl acetate	106		102		70-130	4		30
4-Methyl-2-pentanone	111		107		70-130	4		30
1,2,3-Trichloropropane	95		91		68-130	4		30
2-Hexanone	114		109		70-130	4		30
Bromochloromethane	76		73		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03 Batch: WG1406787-3 WG1406787-4								
2,2-Dichloropropane	93		89		70-130	4		30
1,2-Dibromoethane	84		82		70-130	2		30
1,3-Dichloropropane	92		90		69-130	2		30
1,1,1,2-Tetrachloroethane	81		80		70-130	1		30
Bromobenzene	80		78		70-130	3		30
n-Butylbenzene	97		93		70-130	4		30
sec-Butylbenzene	93		90		70-130	3		30
tert-Butylbenzene	86		84		70-130	2		30
o-Chlorotoluene	89		87		70-130	2		30
p-Chlorotoluene	90		88		70-130	2		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	87		85		70-130	2		30
p-Isopropyltoluene	90		87		70-130	3		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	111		105		70-130	6		30
n-Propylbenzene	91		89		70-130	2		30
1,2,3-Trichlorobenzene	88		86		70-130	2		30
1,2,4-Trichlorobenzene	87		86		70-130	1		30
1,3,5-Trimethylbenzene	88		86		70-130	2		30
1,2,4-Trimethylbenzene	88		85		70-130	3		30
1,4-Dioxane	88		78		65-136	12		30
p-Diethylbenzene	90		86		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03 Batch: WG1406787-3 WG1406787-4								
p-Ethyltoluene	89		86		70-130	3		30
1,2,4,5-Tetramethylbenzene	90		88		70-130	2		30
Ethyl ether	87		82		67-130	6		30
trans-1,4-Dichloro-2-butene	128		122		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	101		103		70-130
Dibromofluoromethane	97		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

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 Batch: WG1406791-3 WG1406791-4								
Methylene chloride	82		79		70-130	4		30
1,1-Dichloroethane	101		96		70-130	5		30
Chloroform	84		81		70-130	4		30
Carbon tetrachloride	85		82		70-130	4		30
1,2-Dichloropropane	99		96		70-130	3		30
Dibromochloromethane	82		80		70-130	2		30
1,1,2-Trichloroethane	90		88		70-130	2		30
Tetrachloroethene	90		86		70-130	5		30
Chlorobenzene	82		80		70-130	2		30
Trichlorofluoromethane	94		88		70-139	7		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	87		84		70-130	4		30
Bromodichloromethane	82		80		70-130	2		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	89		85		70-130	5		30
1,1-Dichloropropene	90		87		70-130	3		30
Bromoform	78		77		70-130	1		30
1,1,1,2-Tetrachloroethane	90		87		70-130	3		30
Benzene	86		83		70-130	4		30
Toluene	87		86		70-130	1		30
Ethylbenzene	89		87		70-130	2		30
Chloromethane	129		120		52-130	7		30
Bromomethane	101		96		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1406791-3 WG1406791-4								
Vinyl chloride	103		97		67-130	6		30
Chloroethane	88		82		50-151	7		30
1,1-Dichloroethene	91		87		65-135	4		30
trans-1,2-Dichloroethene	85		81		70-130	5		30
Trichloroethene	86		82		70-130	5		30
1,2-Dichlorobenzene	83		81		70-130	2		30
1,3-Dichlorobenzene	84		81		70-130	4		30
1,4-Dichlorobenzene	82		79		70-130	4		30
Methyl tert butyl ether	83		80		66-130	4		30
p/m-Xylene	86		84		70-130	2		30
o-Xylene	86		85		70-130	1		30
cis-1,2-Dichloroethene	83		79		70-130	5		30
Dibromomethane	82		79		70-130	4		30
Styrene	87		84		70-130	4		30
Dichlorodifluoromethane	124		119		30-146	4		30
Acetone	132		124		54-140	6		30
Carbon disulfide	94		88		59-130	7		30
2-Butanone	107		99		70-130	8		30
Vinyl acetate	106		102		70-130	4		30
4-Methyl-2-pentanone	111		107		70-130	4		30
1,2,3-Trichloropropane	95		91		68-130	4		30
2-Hexanone	114		109		70-130	4		30
Bromochloromethane	76		73		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

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 Batch: WG1406791-3 WG1406791-4								
2,2-Dichloropropane	93		89		70-130	4		30
1,2-Dibromoethane	84		82		70-130	2		30
1,3-Dichloropropane	92		90		69-130	2		30
1,1,1,2-Tetrachloroethane	81		80		70-130	1		30
Bromobenzene	80		78		70-130	3		30
n-Butylbenzene	97		93		70-130	4		30
sec-Butylbenzene	93		90		70-130	3		30
tert-Butylbenzene	86		84		70-130	2		30
o-Chlorotoluene	89		87		70-130	2		30
p-Chlorotoluene	90		88		70-130	2		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	87		85		70-130	2		30
p-Isopropyltoluene	90		87		70-130	3		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	111		105		70-130	6		30
n-Propylbenzene	91		89		70-130	2		30
1,2,3-Trichlorobenzene	88		86		70-130	2		30
1,2,4-Trichlorobenzene	87		86		70-130	1		30
1,3,5-Trimethylbenzene	88		86		70-130	2		30
1,2,4-Trimethylbenzene	88		85		70-130	3		30
1,4-Dioxane	88		78		65-136	12		30
p-Diethylbenzene	90		86		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1406791-3 WG1406791-4								
p-Ethyltoluene	89		86		70-130	3		30
1,2,4,5-Tetramethylbenzene	90		88		70-130	2		30
Ethyl ether	87		82		67-130	6		30
trans-1,4-Dichloro-2-butene	128		122		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	101		103		70-130
Dibromofluoromethane	97		94		70-130

SEMIVOLATILES

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01
 Client ID: SB008 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/20 14:39
 Analyst: JG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 09/04/20 04:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1100		ug/kg	150	20.	1
Fluoranthene	87	J	ug/kg	120	22.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	22	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	580		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	1900		ug/kg	190	19.	1
Phenanthrene	6200		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	310		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	138	Q	23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	57		18-120

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02
 Client ID: SB009 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:30
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/20 15:02
 Analyst: JG
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/04/20 04:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	150	19.	1
Fluoranthene	150		ug/kg	110	21.	1
Benzo(a)anthracene	66	J	ug/kg	110	21.	1
Benzo(a)pyrene	62	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	82	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	71	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	210		ug/kg	110	36.	1
Benzo(ghi)perylene	43	J	ug/kg	150	22.	1
Fluorene	680		ug/kg	190	18.	1
Phenanthrene	1700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	42	J	ug/kg	150	26.	1
Pyrene	210		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	42		18-120

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03 D
 Client ID: SB010 (0-2)
 Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 11:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/04/20 16:44
 Analyst: JG
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 09/04/20 04:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1700		ug/kg	290	38.	2
Fluoranthene	100	J	ug/kg	220	42.	2
Benzo(a)anthracene	ND		ug/kg	220	41.	2
Benzo(a)pyrene	ND		ug/kg	290	89.	2
Benzo(b)fluoranthene	ND		ug/kg	220	61.	2
Benzo(k)fluoranthene	ND		ug/kg	220	58.	2
Chrysene	ND		ug/kg	220	38.	2
Acenaphthylene	ND		ug/kg	290	56.	2
Anthracene	940		ug/kg	220	71.	2
Benzo(ghi)perylene	ND		ug/kg	290	43.	2
Fluorene	2900		ug/kg	360	35.	2
Phenanthrene	9400		ug/kg	220	44.	2
Dibenzo(a,h)anthracene	ND		ug/kg	220	42.	2
Indeno(1,2,3-cd)pyrene	ND		ug/kg	290	51.	2
Pyrene	420		ug/kg	220	36.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	201	Q	23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	55		18-120

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/08/20 09:19
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 09/03/20 18:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1406368-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
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.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	74		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1406368-2 WG1406368-3								
Acenaphthene	69		73		31-137	6		50
Fluoranthene	69		73		40-140	6		50
Benzo(a)anthracene	72		76		40-140	5		50
Benzo(a)pyrene	73		78		40-140	7		50
Benzo(b)fluoranthene	74		77		40-140	4		50
Benzo(k)fluoranthene	68		76		40-140	11		50
Chrysene	71		75		40-140	5		50
Acenaphthylene	76		81		40-140	6		50
Anthracene	70		75		40-140	7		50
Benzo(ghi)perylene	72		77		40-140	7		50
Fluorene	68		71		40-140	4		50
Phenanthrene	68		73		40-140	7		50
Dibenzo(a,h)anthracene	70		76		40-140	8		50
Indeno(1,2,3-cd)pyrene	74		79		40-140	7		50
Pyrene	69		75		35-142	8		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	60		63		25-120
Phenol-d6	63		67		10-120
Nitrobenzene-d5	69		72		23-120
2-Fluorobiphenyl	75		78		30-120
2,4,6-Tribromophenol	71		75		10-136
4-Terphenyl-d14	67		70		18-120

METALS

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01

Date Collected: 09/03/20 10:00

Client ID: SB008 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.57		mg/kg	0.465	0.097	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Barium, Total	59.4		mg/kg	0.465	0.081	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Cadmium, Total	1.33		mg/kg	0.465	0.046	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Chromium, Total	16.1		mg/kg	0.465	0.045	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Lead, Total	78.1		mg/kg	2.32	0.124	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Mercury, Total	0.351		mg/kg	0.090	0.058	1	09/04/20 12:58	09/04/20 16:50	EPA 7471B	1,7471B	AL
Selenium, Total	ND		mg/kg	0.929	0.120	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.465	0.132	1	09/04/20 12:45	09/04/20 19:10	EPA 3050B	1,6010D	BV



Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02

Date Collected: 09/03/20 10:30

Client ID: SB009 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.09		mg/kg	0.431	0.090	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Barium, Total	43.1		mg/kg	0.431	0.075	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Cadmium, Total	0.293	J	mg/kg	0.431	0.042	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Chromium, Total	9.49		mg/kg	0.431	0.041	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Lead, Total	12.0		mg/kg	2.15	0.115	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Mercury, Total	0.106		mg/kg	0.081	0.053	1	09/04/20 12:58	09/04/20 17:03	EPA 7471B	1,7471B	AL
Selenium, Total	ND		mg/kg	0.862	0.111	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.431	0.122	1	09/04/20 12:45	09/04/20 19:14	EPA 3050B	1,6010D	BV



Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03

Date Collected: 09/03/20 11:00

Client ID: SB010 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.13		mg/kg	0.424	0.088	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Barium, Total	26.8		mg/kg	0.424	0.074	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Cadmium, Total	0.491		mg/kg	0.424	0.042	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Chromium, Total	13.8		mg/kg	0.424	0.041	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Lead, Total	22.0		mg/kg	2.12	0.114	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.088	0.057	1	09/04/20 12:58	09/04/20 17:07	EPA 7471B	1,7471B	AL
Selenium, Total	ND		mg/kg	0.847	0.109	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.424	0.120	1	09/04/20 12:45	09/04/20 19:19	EPA 3050B	1,6010D	BV



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

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 Batch: WG1406655-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Barium, Total	ND	mg/kg	0.400	0.070	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Cadmium, Total	ND	mg/kg	0.400	0.039	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Chromium, Total	ND	mg/kg	0.400	0.038	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Lead, Total	ND	mg/kg	2.00	0.107	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Selenium, Total	ND	mg/kg	0.800	0.103	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD
Silver, Total	ND	mg/kg	0.400	0.113	1	09/04/20 12:45	09/04/20 14:56	1,6010D	GD

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): 01-03 Batch: WG1406657-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	09/04/20 12:58	09/04/20 16:44	1,7471B	AL

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1406655-2 SRM Lot Number: D109-540								
Arsenic, Total	99		-		70-130	-		
Barium, Total	91		-		75-125	-		
Cadmium, Total	92		-		75-125	-		
Chromium, Total	95		-		70-130	-		
Lead, Total	95		-		72-128	-		
Selenium, Total	98		-		68-132	-		
Silver, Total	99		-		68-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1406657-2 SRM Lot Number: D109-540								
Mercury, Total	97		-		60-140	-		

Matrix Spike Analysis Batch Quality Control

Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

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 QC Batch ID: WG1406655-3 QC Sample: L2036476-01 Client ID: MS Sample												
Arsenic, Total	2.40	14.7	16.0	93		-	-		75-125	-		20
Barium, Total	177	244	324	60	Q	-	-		75-125	-		20
Cadmium, Total	0.702	6.24	4.43	60	Q	-	-		75-125	-		20
Chromium, Total	72.1	24.4	89.1	70	Q	-	-		75-125	-		20
Lead, Total	13.3	62.4	61.8	78		-	-		75-125	-		20
Selenium, Total	ND	14.7	8.33	57	Q	-	-		75-125	-		20
Silver, Total	ND	36.7	23.6	64	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1406657-3 QC Sample: L2036570-01 Client ID: SB008 (0-2)												
Mercury, Total	0.351	0.19	0.358	4	Q	-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1406655-4 QC Sample: L2036476-01 Client ID: DUP Sample						
Arsenic, Total	2.40	2.86	mg/kg	17		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1406657-4 QC Sample: L2036570-01 Client ID: SB008 (0-2)						
Mercury, Total	0.351	0.416	mg/kg	17		20

INORGANICS & MISCELLANEOUS

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-01

Client ID: SB008 (0-2)

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:00

Date Received: 09/03/20

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	09/04/20 11:19	121,2540G	RI



Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-02

Client ID: SB009 (0-2)

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Date Collected: 09/03/20 10:30

Date Received: 09/03/20

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	88.2		%	0.100	NA	1	-	09/04/20 11:19	121,2540G	RI



Project Name: TOT2003

Lab Number: L2036570

Project Number: TOT2003

Report Date: 09/08/20

SAMPLE RESULTS

Lab ID: L2036570-03

Date Collected: 09/03/20 11:00

Client ID: SB010 (0-2)

Date Received: 09/03/20

Sample Location: 1061 ATLANTIC AVE, BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	09/04/20 11:19	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2003

Project Number: TOT2003

Lab Number: L2036570

Report Date: 09/08/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1406550-1 QC Sample: L2036587-01 Client ID: DUP Sample						
Solids, Total	90.6	88.7	%	2		20

Project Name: TOT2003**Lab Number:** L2036570**Project Number:** TOT2003**Report Date:** 09/08/20**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(*)
L2036570-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036570-01B	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-01C	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-01D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036570-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2036570-01F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036570-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036570-02B	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-02C	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036570-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2036570-02F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)
L2036570-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2036570-03B	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-03C	Vial water preserved	A	NA		3.2	Y	Absent	04-SEP-20 04:35	NYTCL-8260HLW(14)
L2036570-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2036570-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2036570-03F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYCP51-PAH(14)

Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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. 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.
- 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.

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: TOT2003
Project Number: TOT2003

Lab Number: L2036570
Report Date: 09/08/20

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.



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: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

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.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water


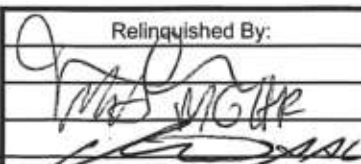
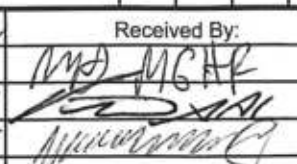
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EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

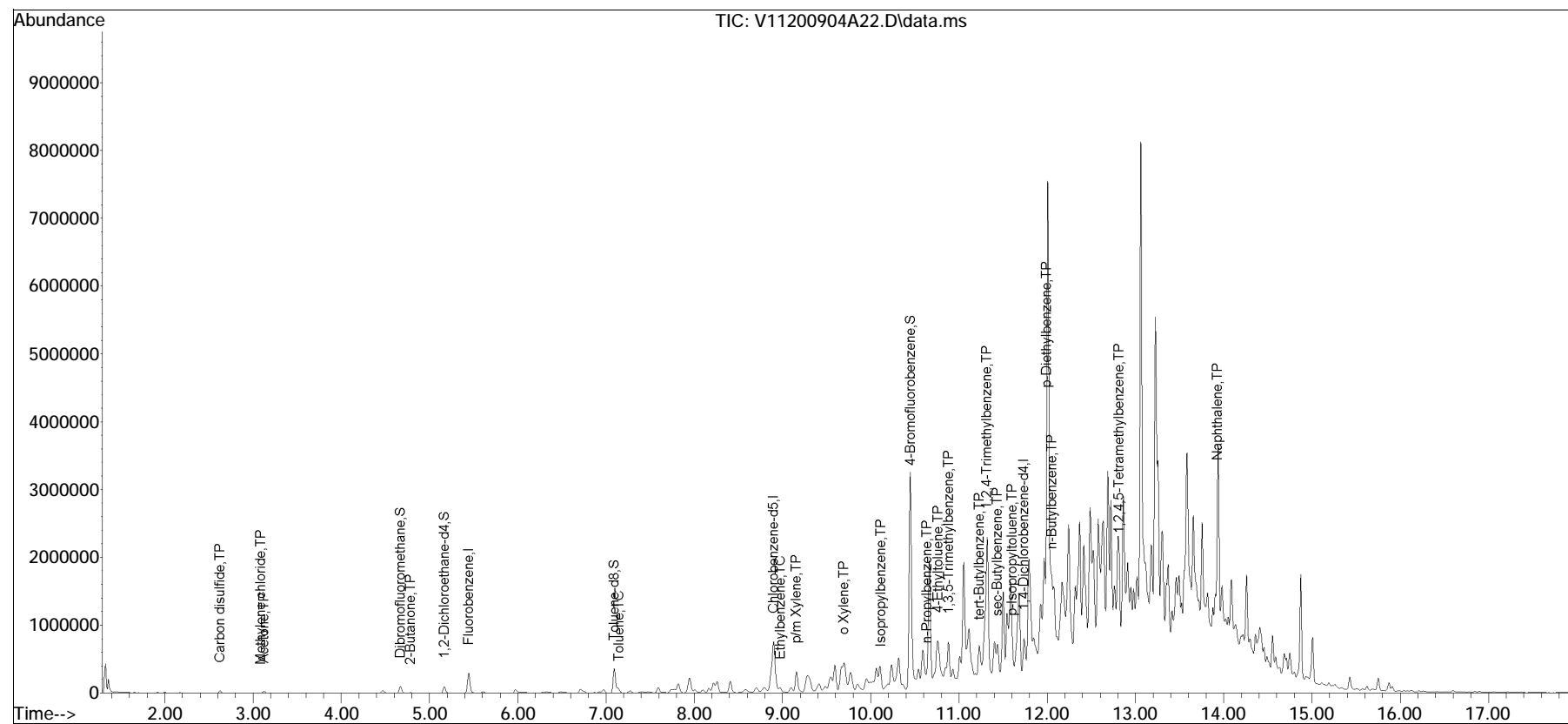
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 9/3/20	ALPHA Job # L2036570						
	Project Information	Deliverables	Billing Information							
Client Information	Regulatory Requirement	Disposal Site Information								
Client: PWAC Address: 630 Johnson Ave Bohemia NY 11716 Phone: 631-589-6353 Fax: Email: mgaul@pwg.rosser.com	Project Name: TOT2003 Project Location: 1061 Atlantic Ave Brooklyn NY Project #: TOT2003 (Use Project name as Project #) <input checked="" type="checkbox"/> Project Manager: Mike Gaul ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: 2 days Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:	<input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			<input checked="" type="checkbox"/> Same as Client Info PO # Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS			Sample Filtration			Total Bottle		
					<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	TCL-VOCS CP-51 SVOCs RCRA Metals				
36570-01 -02 -03	SB008(0-2) SB009(0-2) SB010(0-2)	9/3/20 ↓ ↓	1000 1030 1100	S ↓ ↓	JC ↓ ↓	X X X	X X X	X X X	3 3 3	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		
		Relinquished By:		Date/Time		Received By:		Date/Time		
				9/3/20 1550 9-3-20 1850 9/3/20 2358				9-3-20 1530 9/3/20 2000 9/3/20 2355		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2020\200904A\
 Data File : V11200904A22.D
 Acq On : 04 Sep 2020 02:38 pm
 Operator : VOA111:MKS
 Sample : 12036570-02,31,5.32,5,,b
 Misc : WG1406791,ICAL17031
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 04 15:55:26 2020
 Quant Method : I:\VOLATILES\VOA111\2020\200904A\V111_200812N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Aug 13 19:31:52 2020
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox00904A\V11200904A01.D•

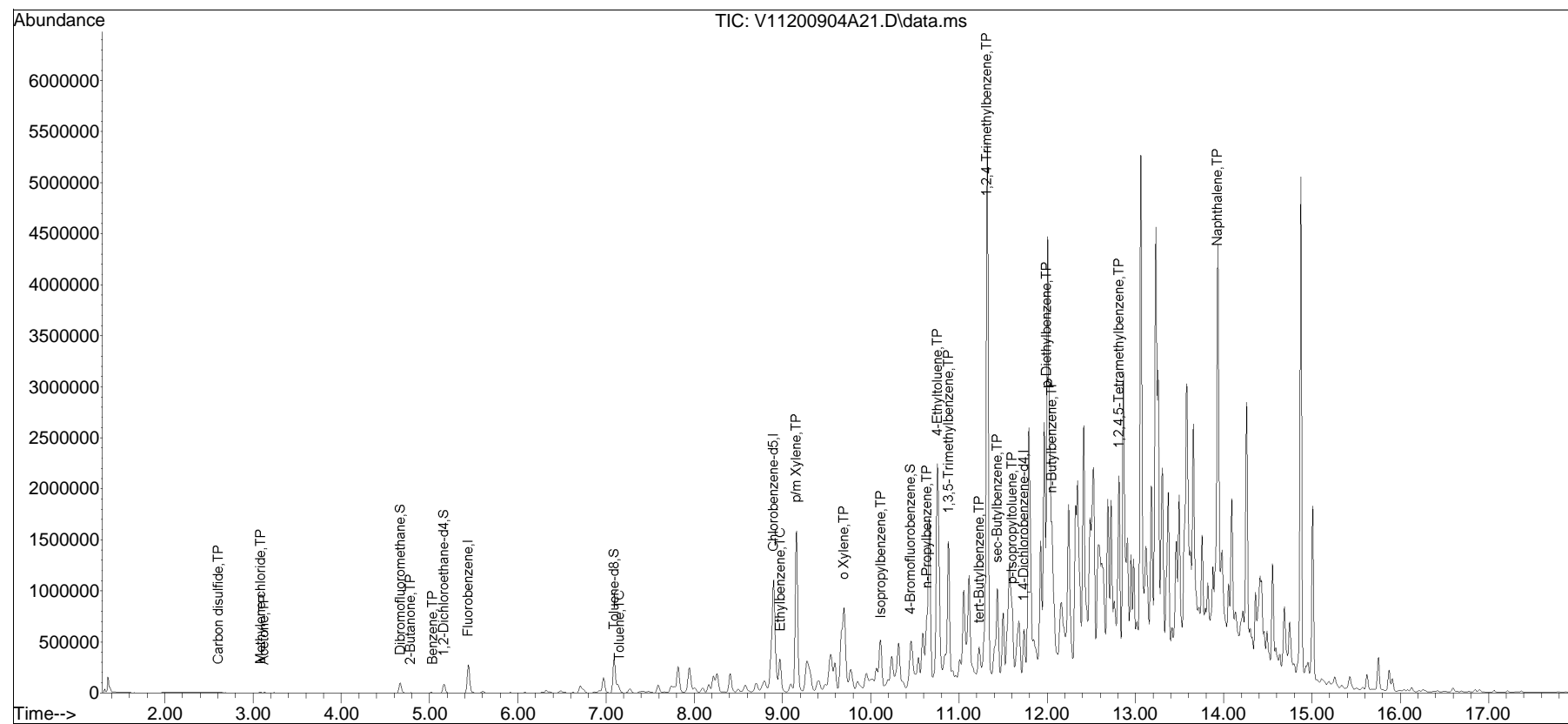


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2020\200904A\
 Data File : V11200904A21.D
 Acq On : 04 Sep 2020 02:13 pm
 Operator : VOA111:JC
 Sample : 12036570-03,31H,5.92,5,0.100,,a
 Misc : WG1406787,ICAL17031
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 04 14:58:24 2020
 Quant Method : I:\VOLATILES\VOA111\2020\200904A\V111_200812N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Aug 13 19:31:52 2020
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox00904A\V11200904A01.D•





APPENDIX D SOIL VAPOR LOGS

1061/1063 Atlantic Avenue, Brooklyn, NY
Soil Vapor Sampling Log

Sample ID	Date	Start Time	End Time	Initial Vacuum (Hg)	Final Vacuum (Hg)	Canister ID	Regulator ID
SV001	9/1/2020	10:08	12:08	-30.07	-8.07	2312	01479
SV002	9/1/2020	10:11	12:11	-29.94	-7.72	323	1950
SV003	9/3/2020	10:46	12:46	-29.87	-8.21	2019	0215
SV004	9/3/2020	10:40	12:40	-29.75	-7.25	2320	01785