

# **Phase II Environmental Site Investigation Report**

**For**  
**River North**  
**170-194 Richmond Terrace and 8-20 Stuyvesant Place**  
**Staten Island, New York**  
**Tax Block 13, Lots 8 (partial), 82, 92 and 100**  
**CEQR #20DCP140R**

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## Table of Contents

|     |                                                                 |    |
|-----|-----------------------------------------------------------------|----|
| 1.0 | Introduction.....                                               | 1  |
| 2.0 | Site Locations, Current Use and Proposed Development Plan ..... | 2  |
|     | Proposed Redevelopment Plan .....                               | 2  |
| 3.0 | Summary of Findings of Previous Investigations.....             | 3  |
| 4.0 | Sampling and Analytical Methodology.....                        | 6  |
|     | Sampling Locations .....                                        | 6  |
|     | Sampling Methodology .....                                      | 7  |
|     | Sample Analysis .....                                           | 8  |
| 5.0 | Sample Results.....                                             | 10 |
| 6.0 | Conclusions .....                                               | 12 |

## Tables

|                                                                          |
|--------------------------------------------------------------------------|
| Table 1 – Sample Locations and Rationale (interlined)                    |
| Table 2 – Volatile Organic Compounds in Soil Vapor                       |
| Table 3a – Volatile Organic Compounds in Soil                            |
| Table 3b – Semivolatile Organic Compounds in Soil                        |
| Table 3c – Metals in Soil                                                |
| Table 3d – Pesticides, Herbicides, and Polychlorinated Biphenyls in Soil |
| Table 3e – Per- and Polyfluoroalkyl Substances in Soil                   |

## Figures

|                                            |
|--------------------------------------------|
| Figure 1 – Site Map and Sampling Locations |
| Figure 2 – Soil Vapor Analytical Results   |
| Figure 3 – Soil Analytical Results         |

## Appendices

|                                      |
|--------------------------------------|
| Appendix 1 – Laboratory Deliverables |
| Appendix 2 – Soil Boring Logs        |
| Appendix 3 – Soil Vapor Logs         |

## **1.0 INTRODUCTION**

This Phase II Environmental Site Investigation (Phase II ESI) was prepared by Tenen Environmental, LLC (Tenen) on behalf of Richmond SI Owner LLC c/o Madison Realty Capital for submittal to New York City Department of Environmental Protection (NYCDEP).

In January 2014, Hydro Tech Environmental, Corp (Hydro Tech) prepared a Phase I Environmental Site Assessment (Phase I ESA) for the properties located at 170-194 Richmond Terrace and 8-20 Stuyvesant Place, Staten Island, New York (Site). Recognized Environmental Conditions (RECs) pertaining to onsite fill material and the suspect presence of heating oil tanks were identified in connection with the Site. Subsequent to the Phase I ESA, Hydro Tech performed a Phase II ESA at the Site in January 2014. The Phase II ESA indicated the presence of metals in exceedance of applicable standards in soil at the Site. In August 2018, a second Phase I ESA was performed for the Site by Environmental Business Consultants (EBC). The EBC Phase I ESA did not identify any RECs in connection with the Site, but did identify one environmental concern pertaining to the potential presence of onsite fill material and the presence of metals in exceedance of applicable standards identified in Hydro Tech's Phase II ESA. In April 2020, Tenen performed a Limited Due Diligence Site Investigation (LDDSI) at the Site. The LDDSI indicated the presence of historic fill material, in exceedance of applicable standards in soil at the Site. In addition, the LDDSI indicated the presence of the chlorinated volatile organic compounds (cVOCs) tetrachloroethene (PCE) and a variety of petroleum-related volatile organic compounds (VOCs) in soil vapor samples collected at the Site.

The goal of the Phase II ESI was to further assess impacts pertaining to the chemicals of concern identified in soil and soil vapor at the Site, as well as to investigate the groundwater quality, if present.

On January 18, 19, and 21, 2021, Tenen conducted soil and soil vapor sampling at the Site. Groundwater was not encountered at the Site during this Phase II ESI. This report provides a summary of the investigation findings, including the results of the laboratory analysis, and recommended steps.

## **2.0 SITE LOCATIONS, CURRENT USE AND PROPOSED DEVELOPMENT PLAN**

The Site, located at 170-194 Richmond Terrace and 8-20 Stuyvesant Place, Staten Island, New York (Tax Block 13, Lots 8 [partial], 82, 92, and 100) is an irregularly-shaped parcel located on the northern corner of Stuyvesant Place and extending to the west side of Richmond Terrace. The total Site area is approximately 98,669 square feet (SF). The Site has approximately 321 feet of frontage along Richmond Terrace, approximately 184 feet of frontage along Stuyvesant Place, and approximately 133 feet of frontage along Hamilton Avenue. All four Site lots are zoned R6, a designation denoting a built-up, medium density residential area. In addition, three lots (Lots 82, 92, and 100) have a C2-2 commercial overlay. The applicant is seeking approval of a series of discretionary land use actions including zoning map amendments, and a special permit to facilitate the Proposed Development Plan, as described further below. In connection with that application, the City Planning Commission issued a Positive Declaration for the Site (CEQR #20DCP140R) on October 16, 2020. The Site is currently vacant, vegetated with trees and overgrowth and contains remnants of building foundations associated with prior unfinished construction on the northern portion of the property.

Perched groundwater is anticipated to be seasonal and present between 25 and 35 feet below grade (ft-bg). Groundwater is assumed to be tidally influenced and flow east towards the New York Bay. potable water in this area of Staten Island. The New York Bay is the nearest surface water body and is located approximately 650 feet to the northeast.

### **Proposed Redevelopment Plan**

The proposed redevelopment of the Site consists of three new mixed use multi-story buildings with full cellars (note that both northern buildings share a cellar) that encompass approximately 50,000-SF of the Site area (as shown on Figure 2). The cellar beneath the two buildings in the northern portion of the Site will extend to an elevation of ten feet above the 1988 North American Vertical Datum (NAVD 88) and will require excavation between 30 and 60 ft-bg, due to the varying topography across the Site. The cellar beneath the building in the southern portion of the Site will extend to an elevation of 30 feet above the NAVD 88 and will require excavation between 15 and 50 ft-bg, due to the varying topography across the Site. The entirety of the cellar in the northern portion of the Site and a portion of the cellar in the southern portion of the Site will extend into bedrock. The proposed building will contain 750 residential units, resident amenity spaces, commercial space, and parking. The development will be built in accordance with the City's Mandatory Inclusionary Housing rules, as 30% of the residential units (225 units) are planned to be affordable housing.



### 3.0 SUMMARY OF FINDINGS OF PREVIOUS INVESTIGATIONS

The following reports have been prepared for the Site between 2008 and 2020:

- *Geotechnical Investigation Report for Liberty Towers – Site A and Site B, Richmond Terrace, Staten Island, NY*, SESI Consulting Engineers, PC, April 7, 2008.
- *Phase I Environmental Site Assessment Report, 178 Richmond Terrace and 24 Stuyvesant Place, Staten Island, NY*, Hydro Tech Environmental, Corp, January 3, 2014.
- *Phase II Environmental Site Assessment, 178 Richmond Terrace and 24 Stuyvesant Place, Staten Island, NY*, Hydro Tech Environmental, Corp, January 21, 2014.
- *Phase I Environmental Site Assessment Report, 170-194 Richmond Terrace and 8-20 Stuyvesant Place, Staten Island, NY*, Environmental Business Consultants, August 29, 2018.
- *Limited Due Diligence Site Investigation Report, 170-194 Richmond Terrace and 8-20 Stuyvesant Place, Staten Island, NY*, Tenen Environmental, LLC, April 29, 2020.

The following is a summary of the results of the previous investigations.

#### *Geotechnical Investigation Report, April 2008*

A Geotechnical Investigation Report, dated April 7, 2008, was prepared by SESI for the Site. The Geotechnical Investigation identified the presence of a layer of fill material across the Site at thicknesses ranging from 5 to 15 ft-bg. Bedrock at the Site was detected at depths ranging from 17 to 45 ft-bg. Bedrock underlying the Site was identified as Serpentine rock, which is known to contain naturally occurring asbestiform minerals.

#### *Phase I Environmental Site Assessment, January 2014*

A Phase I ESA, dated January 2014, was prepared by Hydro Tech for the Site. The historic uses of the Site and the Recognized Environmental Conditions (RECs) identified by Hydro Tech are summarized below.

The Site was developed sometime prior to 1898 with several residential buildings, six of which contained basements. With the exception of one three-story dwelling in the northern portion of the property, the Site has been vacant since 1977. The dwelling in the northern portion of the property was demolished by 2005.

#### RECs:

- The presence of unknown fill material; and,
- The suspect presence of heating oil tanks.

#### *Phase II Environmental Site Assessment, January 2014*

A Phase II ESA, dated January 2014, was prepared by Hydro Tech for the Site to further investigate the RECs identified in their Phase I ESA. The scope of the Phase II ESA included a ground penetrating radar (GPR) survey across the Site, the installation of twelve soil borings across the Site, and the collection of twelve soil samples. All soil samples were analyzed for VOCs, SVOCs and target analyte list (TAL) metals.

No anomalies indicative of underground storage tanks (USTs) were detected as part of the GPR survey. One metal, selenium, was detected in all twelve soil samples at concentrations exceeding Unrestricted Use Soil Cleanup Objectives (SCOs), but below Restricted-Residential Use SCOs; lead was detected in two soil samples at concentrations exceeding Unrestricted Use SCOs, but below Restricted-Residential Use SCOs; and, mercury was detected in one soil sample in exceedance of its Unrestricted Use and Restricted-Residential Use SCOs. Selenium was detected at a max. concentration of 15.5 milligrams per kilogram (mg/kg); lead was detected at a max. concentration of 99.7 mg/kg; and mercury was detected at a max. concentration of 2.41 mg/kg. VOCs and SVOCs were not detected in exceedance of Unrestricted Use or Restricted-Residential Use SCOs in any soil samples.

*Phase I Environmental Site Assessment, August 2018*

A second Phase I ESA, dated August 2018, was prepared by EBC for the Site. The historic uses of the Site and one environmental concern identified by ECB are summarized below.

The eastern portion of the Site was developed with several small structures, likely residences, from at least 1891. By 1909, the Site was developed with eight small residences, at the northern and southern portions. By 1917, several additional residences were constructed on the southern portion of the Site. By the late 1930s, one of the residences on the southern portion of the Site was demolished and replaced with a garage. Between the mid 1960s and late 1970s, all of the residences and the garage were demolished, with the exception of the northernmost residence. The last remaining residence was demolished circa 2005. The foundations present in the northern portion of the Site were constructed in 2006.

EBC did not identify any RECs in association with the Site. However, EBC did identify the environmental concern:

- Information obtained from various historic sources indicated that the northern and southern portions of the subject property were developed with multiple residences from at least the 1890s. The majority of the residences were demolished in the 1960s and 1970s, with the final building demolished in 2005. As such, there was potential for fill materials to be present (utilized to backfill the foundations and/or basements of the former structures following their demolition). The presence of fill materials was evaluated by Hydro Tech in 2014 as part of a Phase II ESA. No evidence of fill material was identified during the investigation; however, several soil samples contained lead, mercury, and/or selenium at concentrations slightly above applicable regulatory criteria. The presence of these metals alone does not indicate evidence of significant contamination nor do they warrant further investigation/remediation.

*Limited Due Diligence Site Investigation, May 2020*

An LDDSI, dated May 2020, was prepared by Tenen for the Site to further evaluate soil in areas of the Site which were not previously investigated and to evaluate soil vapor across the Site which was also not previously investigated. The scope of the Phase II ESA included the installation of eight soil borings across the Site, the collection of eight soil samples, the installation of six temporary soil vapor points across the Site, the collection of six soil vapor samples, and the installation of one temporary groundwater monitoring well. All soil samples were analyzed for VOCs, SVOCs and target analyte list (TAL) metals and all soil vapor samples were analyzed for VOCs.

The results of the soil sampling conducted as part of the LDDSI indicated the presence of several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) in exceedance of Restricted-Residential Use SCOs in one soil sample. Benzo(a)anthracene was detected at a concentration of 2.1 mg/kg; benzo(a)pyrene was detected at a concentration of 1.2 mg/kg; benzo(b)fluoranthene was detected at a concentration of 1.6 mg/kg; and indeno(1,2,3-cd)pyrene was detected at a concentration of 0.76 mg/kg. In addition, various metals were detected in six of eight soil samples at concentrations exceeding Restricted-Residential Use SCOs. Arsenic was detected at a max. concentration of 19.9 mg/kg; barium was detected at a max. concentration of 508 mg/kg; lead was detected at a max. concentration of 2,430 mg/kg; mercury was detected at a max. concentration of 2.07 mg/kg; and nickel was detected at a max. concentration of 753 mg/kg. VOCs were not detected in exceedance of Restricted-Residential Use SCOs in any soil samples.

The results of the soil vapor sampling conducted as part of the LDDSI indicated the presence one cVOC, PCE, in all six soil vapor samples at concentrations ranging from 11.9 micrograms per cubic meter ( $\text{ug}/\text{m}^3$ ) to 86.1  $\text{ug}/\text{m}^3$ . No other cVOCs were detected in soil vapor samples. Several petroleum-related VOCs were also detected in soil vapor samples across the Site, including the following: benzene [max: 6.07  $\text{ug}/\text{m}^3$ ], toluene [max: 46.7  $\text{ug}/\text{m}^3$ ], ethylbenzene [max: 40.7  $\text{ug}/\text{m}^3$ ], p/m-xylene [max: 160  $\text{ug}/\text{m}^3$ ], o-xylene [max: 236  $\text{ug}/\text{m}^3$ ], 1,2,4-trimethylbenzene [max: 362  $\text{ug}/\text{m}^3$ ], 1,3,5-trimethylbenzene [max: 147  $\text{ug}/\text{m}^3$ ] and 2,2,4-trimethylpentane [max: 2,110  $\text{ug}/\text{m}^3$ ].

Groundwater was not encountered during the LDDSI.

#### 4.0 SAMPLING AND ANALYTICAL METHODOLOGY

The scope of work for the Site included the following:

##### Soil Vapor

- Installed four soil vapor points within the southern cellar footprint and five soil vapor points within the northern cellar footprint;
- Purged and collected soil vapor samples (SV-7 through SV-15) from each location; and,
- Analyzed soil vapor samples for TO-15 volatile organic compounds (VOCs).

##### Soil

- Installed eleven soil borings (SB-8 through SB-17 and SB-8W) within each proposed cellar footprint (six borings within the southern cellar footprint and five borings within the northern cellar footprint) and one soil boring (SB-18) outside of the proposed cellar footprints;
- Collected two soil samples at each soil boring location (with the exception of confirmatory soil boring SB-8W); and
- Analyzed soil samples and one field blank for VOCs, semi-volatile organic compounds (SVOCs), pesticides, herbicides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) total metals and analyzed two shallow soil samples (one from each proposed cellar footprint) for per- and polyfluoroalkyl substances (PFAS). Two trip blanks were analyzed for VOCs.

#### Sampling Locations

The sample locations are depicted on Figure 1. The rationale for each is described below.

**Table 1 – Sample Locations and Rationale**

| Sample No. | Lot | Sample Locations            | Rationale                                                                |
|------------|-----|-----------------------------|--------------------------------------------------------------------------|
| SV-7       | 100 | Southern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-8       | 100 | Southern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-9       | 100 | Southern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-10      | 100 | Southern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-11      | 92  | Northern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-12      | 92  | Northern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-13      | 82  | Northern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-14      | 82  | Northern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |
| SV-15      | 82  | Northern Building Footprint | Assess potential soil vapor impacts within the proposed cellar footprint |

| Sample No. | Lot | Sample Locations                                             | Rationale                                                                      |
|------------|-----|--------------------------------------------------------------|--------------------------------------------------------------------------------|
| SB-8       | 100 | Southern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-8W      | 100 | Southern Building Footprint                                  | Confirm the shallow bedrock encountered in soil boring SB-8                    |
| SB-9       | 100 | Southern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-10      | 100 | Southern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-11      | 100 | Southern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-12      | 100 | Southern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-13      | 92  | Northern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-14      | 92  | Northern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-15      | 82  | Northern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-16      | 82  | Northern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-17      | 82  | Northern Building Footprint                                  | Assess potential soil impacts within the proposed cellar footprint             |
| SB-18      | 8   | Center of Lot 8, Outside of the Proposed Building Footprints | Assess potential soil impacts within the proposed exterior portion of the Site |

## Sampling Methodology

**Soil Vapor.** A total of nine soil vapor samples were collected in accordance with the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Soil Vapor Guidance, October 2006 with updates).

All soil vapor implants in the proposed northern cellar footprint (SV-11 through SV-15) and two of the soil vapor implants in the proposed southern cellar footprint (SV-7 and SV-8) were installed with a track-mounted direct-push Geoprobe. The two remaining soil vapor implants in the proposed southern cellar footprint (SV-9 and SV-10) could not be accessed by Geoprobe due to Site topography and were installed with a hand auger. All soil vapor implants were set one foot above bedrock or weathered bedrock (ranges from 6 ft-bg at SV-9 to 18.5 ft-bg at SV-11, SV-12, and SV-13. A 1.5-inch long hardened point and a six-inch long perforated vapor intake were installed at the desired depth.

Each soil vapor sample was screened for organic vapors using a photoionization detector (PID). PID readings ranged from 1.1 parts per million (ppm) in SV-9 to 13.1 ppm in SV-8. PID readings in soil vapor sample SV-11 were non-detect.

Samples were collected in laboratory-supplied Summa canisters, which have been certified clean by the laboratory. The flow rate of both purging and sampling did not exceed 0.2 liters per minute (L/min). Sampling occurred for a duration of two hours. A sample log sheet was maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of soil vapor extracted,

vacuum of canisters before and after the samples were collected, apparent moisture content of the sampling zone, and chain of custody protocols. Helium tracer gas was used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) measure to verify the integrity of the soil vapor probe seal. A portable monitoring device was used to analyze a sample of soil vapor for the tracer prior to sampling. If a significant amount of helium was detected, the probe seals were adjusted to prevent infiltration. At the conclusion of the sampling, tracer monitoring was performed a second time to confirm the integrity of the probe seals. All soil vapor sampling locations were surveyed with a handheld Trimble global positioning system (GPS) following sample collection.

Soil vapor samples were collected in laboratory-supplied canisters and were sealed, labeled, and placed in a secure container for delivery. Samples were submitted to Alpha Analytical, Westborough, MA, a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory.

**Soil.** Twelve soil borings (SB-8 through SB-18 and SB-8W) were advanced. Six soil borings (SB-8 through SB-12 and SB-8W) were advanced within the proposed footprint of the southern cellar; five soil borings (SB-13 through SB-17) were advanced within the proposed footprint of the northern cellar; and one soil boring (SB-18) was advanced in the proposed exterior portion of the Site.

All borings were advanced to weathered bedrock or bedrock, ranging from 7 ft-bg in SB-11 to 30 ft-bg in SB-13. Soil borings SB-8 through SB-10 and SB-13 through SB-18 were advanced with a track-mounted direct push Geoprobe. Soil borings SB-11 and SB-12 were inaccessible to Geoprobe due to Site topography and were advanced with a hand auger. Soil samples were collected from new, dedicated disposable acetate liners through macrocores. All soil boring sampling locations were surveyed with a handheld Trimble GPS following installation.

At each boring location, soils were screened for VOCs using a photoionization detector (PID) and a record of each sample, including notation of odors, colors, or other observations of the sample matrix was recorded in the sampler's logbook. Two samples were collected at each boring location (with the exception of confirmatory boring SB-8W); a shallow sample from 0-2 ft-bg and a deeper sample at the two-foot interval above bedrock or, if present, weathered bedrock. If contamination was observed as determined by PID readings and/or visual or olfactory observations, a sample was also collected at the location of highest contamination in each boring. A total of twenty-two soil samples, in addition to one field blank and two trip blanks, were collected. All samples were transported under chain-of-custody to Alpha Analytical Laboratories, a New York State Department of Health (NYSDOH) ELAP-certified laboratory.

Quality Assurance Quality Control (QAQC) procedures were implemented in accordance with Section 5.0 of the approved Phase II Work Plan. Health and safety measures were implemented in accordance with the Health and Safety Plan (HASP), included as Attachment 1 of the approved Phase II Work Plan.

## **Sample Analysis**

**Soil Vapor.** Soil vapor samples were analyzed for VOCs using USEPA method TO-15. Sample results were compared to the Decision Matrices contained in the NYSDOH Soil Vapor Guidance and EPA Vapor Intrusion Screening Level (VISL) Default Residential Target Sub-Slab & Exterior Soil Gas Concentrations Criteria (TSSGC).

**Soil.** All soil samples were analyzed for the following parameters:

- VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270;
- Pesticides/herbicides by EPA Method 8081/8082;
- PCBs by EPA Method 8082A; and,
- TAL metals by EPA Methods 6010 and 7471.

In addition to the above, two shallow soil samples (one from each cellar footprint) were analyzed for PFAS by EPA Method 537 Modified. The field blank was analyzed for all of the above analytes and trip blanks were analyzed for VOCs by EPA Method 8260. Sample results were compared to 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs, SCOs) and Restricted-Residential SCOs (RRSCOs). PFAS results were compared to the proposed UUSCOs and RRSCOs as listed in NYSDEC's Guidance for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs (PFAS Guidelines).

## 5.0 SAMPLE RESULTS

**Soil Vapor.** Soil vapor analytical results are included in Table 2. Soil vapor analytical results were compared with the Decision Matrices as referenced in the NYSDOH Soil Vapor Guidance and Residential EPA VISL TSSGCs. Laboratory deliverables are included in Appendix 1. The analytical results are summarized below.

Tetrachloroethene (PCE) was detected in six of nine soil vapor samples at low concentrations and 1,1,1-trichloroethane (1,1,1-TCA) was detected in one soil vapor sample at a low concentration. Both analytes are associated with NYSDOH Matrix B. PCE was detected at a max. concentration of 2.99 micrograms per cubic meter ( $\text{ug}/\text{m}^3$ ) in SV-12 and 1,1,1-TCA was detected at a concentration of  $1.3 \text{ ug}/\text{m}^3$  in SV-13. Matrix B provides a range of actions ranging from “No Further Action” to “Mitigate” based upon the levels in sub-slab soil vapor and indoor air. Soil vapor concentrations at these two locations fall into the lowest category,  $< 100 \text{ ug}/\text{m}^3$ . PCE was detected two orders of magnitude below its EPA VISL TSSGC of  $360 \text{ ug}/\text{m}^3$  and 1,1,1-TCA was detected five orders of magnitude below its EPA VISL TSSGC of  $174,000 \text{ ug}/\text{m}^3$ . All other analytes associated with NYSDOH matrices were non-detect in all nine soil vapor samples.

Two petroleum-related VOCs, benzene and ethylbenzene, were detected at concentrations exceeding their respective residential EPA VISL TSSGCs in one or more samples collected from the proposed northern building footprint. Benzene was detected in exceedance of its residential EPA VISL TSSGC of  $12 \text{ ug}/\text{m}^3$  in three samples (max.  $21.3 \text{ ug}/\text{m}^3$  in SV-14) and ethylbenzene was detected in exceedance its residential EPA VISL TSSGC of  $37.4 \text{ ug}/\text{m}^3$  in two samples (max.  $203 \text{ ug}/\text{m}^3$  in SV-14). No other VOCs were detected in exceedance of residential EPA VISL TSSGCs in any soil vapor samples.

A variety of other petroleum-related compounds were detected across the Site at varying concentrations below the EPA VISL TSSGCs, with the highest concentrations generally occurring in the northern portion of the proposed northern building footprint. The following maximum toluene, p/m-xylene, o-xylene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene concentrations were detected: toluene max.  $897 \text{ ug}/\text{m}^3$  in SV-14; p/m-xylene max  $634 \text{ ug}/\text{m}^3$  in SV-14; o-xylene max  $175 \text{ ug}/\text{m}^3$  in SV-14; 1,3,5-trimethylbenzene max.  $26.2 \text{ ug}/\text{m}^3$  in SV-14; and, 1,2,4-trimethylbenzene max  $98.3 \text{ ug}/\text{m}^3$  in SV-15.

**Soil.** Soil analytical results are included in Tables 3a through 3e. Soil analytical results were compared with UUSCOs and RRSCOs. Laboratory deliverables are included in Appendix 1. The analytical results are summarized below.

There were no visual or olfactory indications of contamination in any of the twelve borings advanced during this investigation. PID readings were noted in soil boring SB-11 at 5 ft-bg (0.3 ppm) and SB-13 at 1 ft-bg (0.1 ppm). PID readings were not detected at any other boring locations.

No soil samples collected as part of this investigation were detected in exceedance of UUSCOs or RRSCOs for VOCs, herbicides, or PCBs.

Five SVOCs, specifically polyaromatic hydrocarbons (PAHs), were detected in exceedance of UUSCOs in one shallow soil sample, SB-10 (0-2). Benzo(a)anthracene was detected at a concentration of 1.5 milligrams per kilogram ( $\text{mg}/\text{kg}$ ) with a UUSCO of  $1 \text{ mg}/\text{kg}$ ; benzo(a)pyrene was detected at a concentration of  $1.8 \text{ mg}/\text{kg}$  with a UUSCO of  $1 \text{ mg}/\text{kg}$ ; benzo(b)fluoranthene was detected at a concentration of  $2.3 \text{ mg}/\text{kg}$  with a UUSCO of  $1 \text{ mg}/\text{kg}$ ; chrysene was detected at a



concentration of 1.5 mg/kg with a UUSCO of 1 mg/kg; and indeno(1,2,3-cd)pyrene was detected at a concentration of 1.3 mg/kg with a UUSCO of 0.5 mg/kg. Of these, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene have RRSCOs that are the same as their UUSCOs, therefore, these analytes also exceeded their RRSCOs in shallow soil sample SB-10 (0-2). No other SVOCs were detected in exceedance of UUSCOs or RRSCOs in any soil samples.

A variety of metals, including arsenic, copper, lead, manganese, mercury, nickel and zinc were detected in exceedance of UUSCOs in one or more soil samples. Of these, arsenic, lead, mercury, and nickel were also detected in exceedance of their RRSCOs in one or more soil samples. Arsenic was detected in exceedance of its UUSCO of 13 mg/kg and its RRSCO of 16 mg/kg in one shallow soil sample [concentration of 17.4 mg/kg in SB-10 (0-2)]; copper was detected in exceedance of its UUSCO of 50 mg/kg in two shallow and one deep soil samples [max. 168 mg/kg in SB-14 (0-2)]; lead was detected in exceedance of its UUSCO of 63 mg/kg in six shallow and two deep soil samples, and in exceedance of its RRSCO of 400 mg/kg in one shallow soil sample [max. 1,420 mg/kg in SB-10 (0-2)]; manganese was detected in exceedance of its UUSCO of 1,600 mg/kg in one deep soil sample [concentration of 1,920 mg/kg in SB-8 (6.5-8.5)]; mercury was detected in exceedance of its UUSCO of 0.18 mg/kg in five shallow and one deep soil samples, and in exceedance of its RRSCO of 0.81 mg/kg in two shallow soil samples [max. 1.05 mg/kg in SB-10 (0-2)]; nickel was detected in exceedance of its UUSCO of 30 mg/kg in all eleven shallow and nine deep soil samples, and in exceedance of its RRSCO of 310 mg/kg in seven shallow and five deep soil samples [max. 1,620 mg/kg in SB-8 (6.5-8.5)]; and zinc was detected in exceedance of its UUSCO of 109 mg/kg in five shallow soil samples [max. 1,080 mg/kg in SB-10 (0-2)]. No other metals were detected in exceedance of UUSCOs or RRSCOs in any soil samples.

A variety of pesticides were detected in exceedance of UUSCOs, but below RRSCOs, in nine of eleven shallow soil samples and two of eleven deep soil samples. Dieldrin was detected in two shallow soil samples [max. 0.00958 mg/kg in SB-8 (0-2) with a UUSCO of 0.005 mg/kg]; 4,4'-DDD was detected in four shallow soil samples [max. 0.0133 mg/kg in SB-10 (0-2) with a UUSCO of 0.0033 mg/kg]; 4,4'-DDE was detected in five shallow and one deep soil samples [max. 0.0436 mg/kg in SB-10 (0-2) with a UUSCO of 0.0033 mg/kg]; and 4,4'-DDT was detected in nine shallow and two deep soil samples [max. 0.167 mg/kg in SB-10 (0-2) with a UUSCO of 0.033 mg/kg]. No other pesticides were detected in exceedance of UUSCOs in any soil samples. Pesticides were not detected in exceedance of RRSCOs in any soil samples.

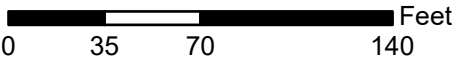
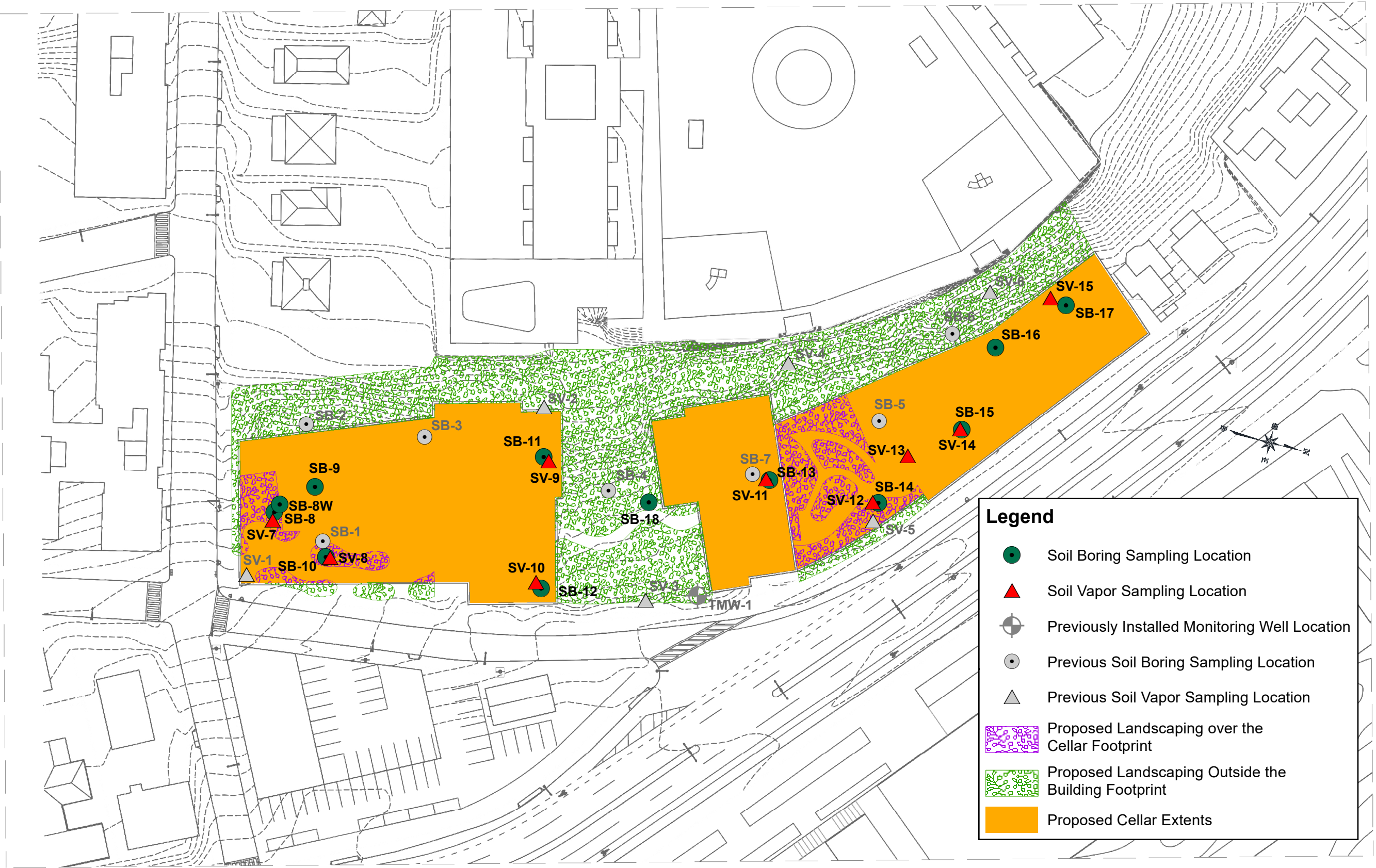
Two shallow soil samples, SB-10 (0-2) and SB-14 (0-2), were analyzed for PFAS. Low concentrations of PFAS in exceedance of the proposed UUSCOs were detected in both samples. Perfluorooctanoic acid (PFOA) was detected in exceedance of its proposed UUSCO of 0.66 nanograms per gram (ng/g) in both samples [max. 2.39 ng/g in SB-10 (0-2)] and perfluorooctanesulfonic acid (PFOS) was detected in exceedance of its proposed UUSCO of 0.88 ng/g in one sample [concentration 0.928 ng/g in SB-10 (0-2)]. PFAS were not detected in exceedance of the proposed RRSCOs in either sample.

## **6.0 CONCLUSIONS**

Data collected during the Phase II ESI did not identify cVOC concentrations in soil vapor that, based upon NYSDOH guidelines, would require action. Elevated levels of petroleum-related VOCs in exceedance of residential EPA VISL TSSGCs were detected in soil vapor samples collected from the northern portion of the proposed northern cellar footprint. SVOCs, metals, and pesticides typically associated with historic fill material were detected in exceedance of UUSCOs in shallow soil across the Site. In addition, SVOCs and metals also exceeded RRSCOs in one or more shallow soil samples. One metal, nickel, was also detected in exceedance of its UUSCO and RRSCO in deep soil across the Site.

Based upon the results of this Phase II ESI and previous investigations, and to provide additional protection to current and future residents, a Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) will be prepared.

# Figures



**River North**  
**170-194 Richmond Terrace &  
8-20 Stuyvesant Place**  
**Staten Island, New York**  
**Block 13, Lots 82, 92, 100 &  
Lot 8 (partitioned)**

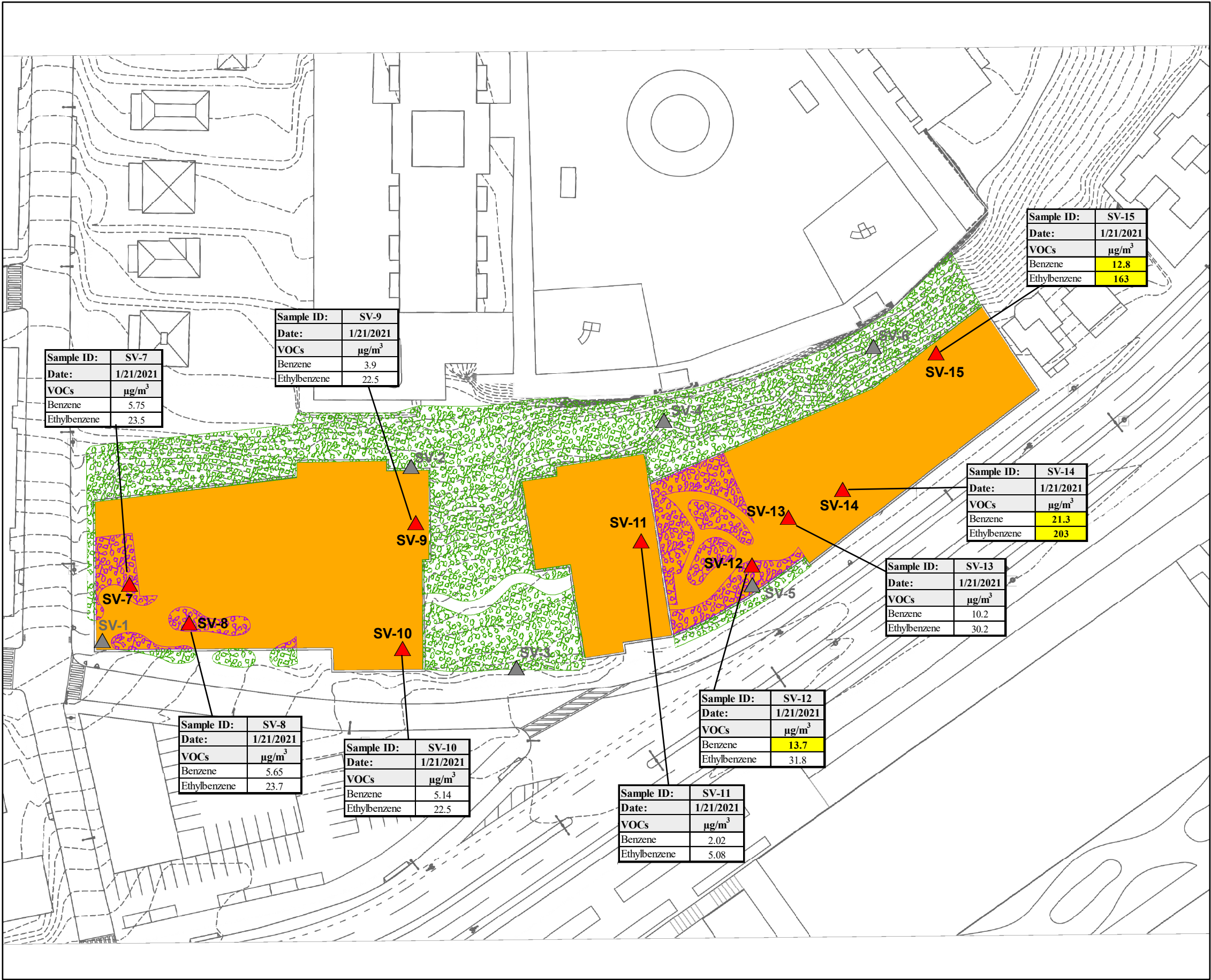
**TENEN ENVIRONMENTAL**  
Tenen Environmental, LLC  
121 West 27th Street  
Suite 702  
New York, NY 10001  
O: (646) 606-2332  
F: (646) 606-2379

|            |              |
|------------|--------------|
| Drawn By   | LM           |
| Checked By | AP           |
| Date       | January 2021 |
| Scale      | As Noted     |

**Site Map and Sampling Locations**

**Figure 1**





North Arrow

| Analyte      | EPA-VISL-RTSSGC   |
|--------------|-------------------|
| VOCs         | µg/m <sup>3</sup> |
| Benzene      | 12                |
| Ethylbenzene | 37.4              |

Notes:

1. Bold and shaded yellow value indicates concentration exceeds EPA-VISL-RTSSGC

2. EPA-VISL-RTSSGC = EPA VISL Default Residential Target Sub-Slab & Exterior Soil Gas Concentrations Criteria

Legend

- Soil Vapor Sampling Location
- Previous Soil Vapor Sampling Location
- Proposed Landscaping over the Cellar Footprint
- Proposed Landscaping Outside the Building Footprint
- Proposed Cellar Extents

0 35 70 140 Feet

Site

**River North**  
**170-194 Richmond Terrace &**  
**8-20 Stuyvesant Place**  
**Staten Island, New York**  
**Block 13, Lots 82, 92, 100 &**  
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Drawn By LM

Checked By AP

Date February 2021

Scale As Noted

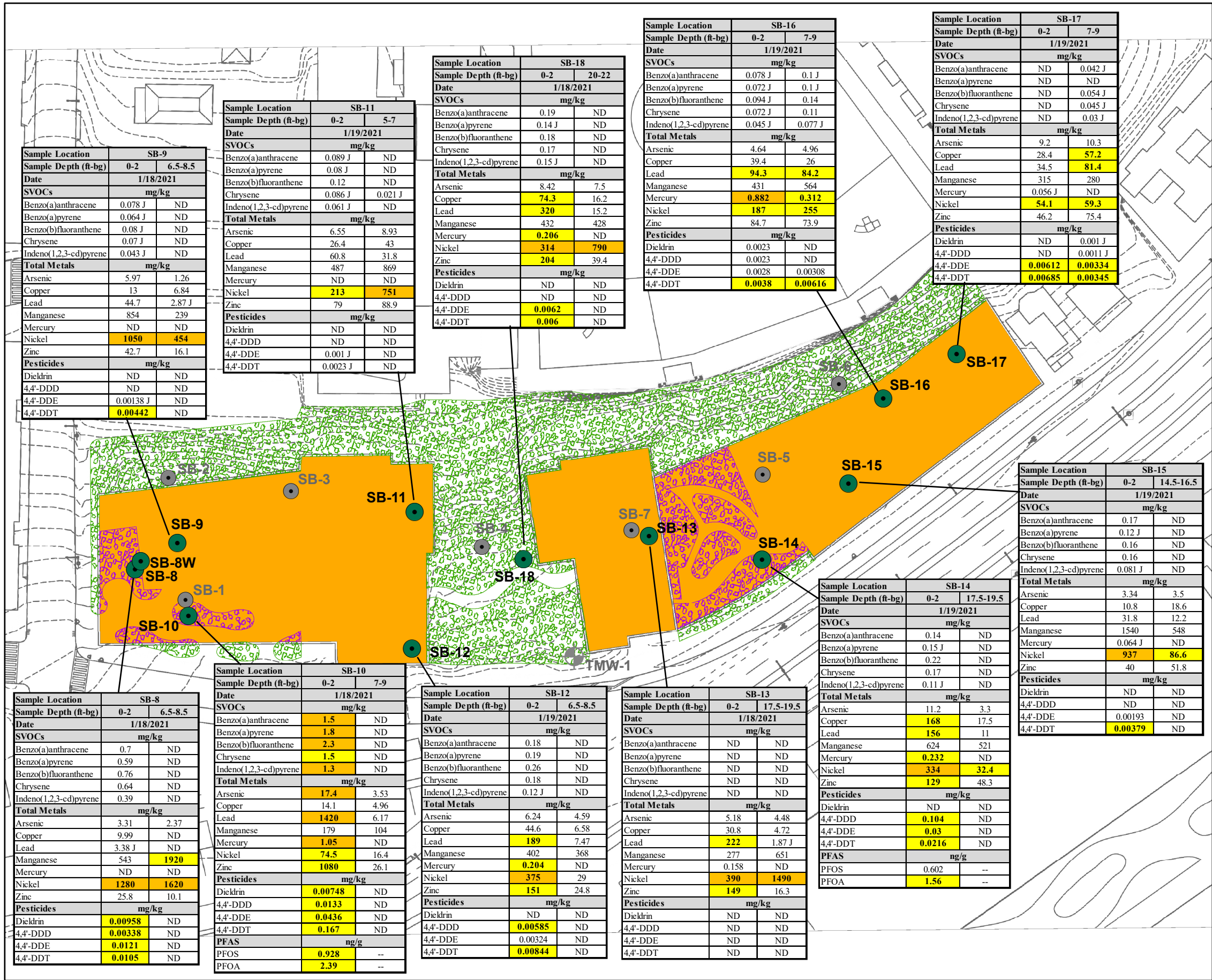
Drawing Title

**Soil Vapor Analytical Results**

Drawing No

**Figure 2**





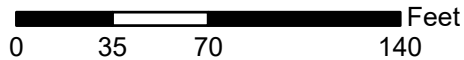
Source: NYC DOF - Digital Tax Map  
File: Special Permit-Illustrative Plans.dwg (received 10/26/2020)

| Analyte                | NY-UNRES | NY-RESRR |
|------------------------|----------|----------|
| SVOCs                  |          |          |
| mg/kg                  |          |          |
| Benzo(a)anthracene     | 1        | 1        |
| Benzo(a)pyrene         | 1        | 1        |
| Benzo(b)fluoranthene   | 1        | 1        |
| Chrysene               | 1        | 3.9      |
| Indeno(1,2,3-cd)pyrene | 0.5      | 0.5      |
| Total Metals           |          |          |
| mg/kg                  |          |          |
| Arsenic                | 13       | 16       |
| Copper                 | 50       | 270      |
| Lead                   | 63       | 400      |
| Manganese              | 1600     | 2000     |
| Mercury                | 0.18     | 0.81     |
| Nickel                 | 30       | 310      |
| Zinc                   | 109      | 310      |
| Pesticides             |          |          |
| mg/kg                  |          |          |
| Dieldrin               | 0.005    | 0.2      |
| 4,4'-DDD               | 0.0033   | 13       |
| 4,4'-DDE               | 0.0033   | 8.9      |
| 4,4'-DDT               | 0.0033   | 7.9      |
| PFAS                   |          |          |
| ng/g                   |          |          |
| PFOS                   | 0.88     | 44       |
| PFOA                   | 0.66     | 33       |

|                                                                                   |  |  |
|-----------------------------------------------------------------------------------|--|--|
| Notes:                                                                            |  |  |
| 1. Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs     |  |  |
| 2. Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs     |  |  |
| 3. NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives           |  |  |
| 4. NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives |  |  |
| 5. J = Estimated value                                                            |  |  |
| 6. ND = Not detected                                                              |  |  |
| 7. -- = Not analyzed                                                              |  |  |
| 8. Only SB-10 (0-2) and SB-14 (0-2) were analyzed for PFAS                        |  |  |

Legend

- Soil Boring Sampling Location
- Previously Installed Monitoring Well Location
- Previous Soil Boring Sampling Location
- Proposed Landscaping over the Cellar Footprint
- Proposed Landscaping Outside the Building Footprint
- Proposed Cellar Extents



River North  
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Site

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Drawn By LM

Checked By AP

Date February 2021

Scale As Noted

Soil Analytical Results

Figure 3

Drawing Title

Drawing No

# Tables

## Phase II Environmental Site Investigation Report

| LOCATION                   | NYSDOH<br>Matrix | EPA-VISL<br>-RTSSGC | Units | SV-7        | SV-8        | SV-9        | SV-10       | SV-11       | SV-12       | SV-13       | SV-14       | SV-15       | NYSDOH<br>Matrix<br>Decision |           |
|----------------------------|------------------|---------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|-----------|
| SAMPLING DATE              |                  |                     |       | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   |                              | 1/21/2021 |
| LAB SAMPLE ID              |                  |                     |       | L2103206-01 | L2103206-02 | L2103206-03 | L2103206-04 | L2103206-05 | L2103206-06 | L2103206-07 | L2103206-08 | L2103206-09 |                              |           |
|                            |                  |                     |       | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        |                              | Qual      |
| Volatile Organic Compounds |                  |                     |       |             |             |             |             |             |             |             |             |             |                              |           |
| Dichlorodifluoromethane    | -                | 3480                | ug/m3 | 2.17        | 2.1         | 2.13        | 2.35        | 2.2         | 7.57        | 7.57        | 3.84        | ND          |                              |           |
| Chloromethane              | -                | 3130                | ug/m3 | ND          | ND          | ND          | ND          | 0.423       | ND          | ND          | ND          | ND          |                              |           |
| Freon-114                  | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Vinyl chloride             | C                | 5.59                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| 1,3-Butadiene              | -                | 3.12                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | 1.81        | ND          |                              |           |
| Bromomethane               | -                | 174                 | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Chloroethane               | -                | 348000              | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Ethanol                    | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | 13.2        | ND          | ND          | ND          |                              |           |
| Vinyl bromide              | -                | 2.92                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Acetone                    | -                | 1070000             | ug/m3 | 19.7        | 17          | 6.1         | 9.07        | 5.91        | 24.5        | 18.3        | ND          | 6.15        |                              |           |
| Trichlorofluoromethane     | -                | NS                  | ug/m3 | 1.31        | 1.28        | 1.27        | 1.29        | 1.74        | 11.1        | 22.4        | 18.9        | ND          |                              |           |
| Isopropanol                | -                | 6950                | ug/m3 | ND          | ND          | ND          | ND          | ND          | 1.26        | ND          | ND          | ND          |                              |           |
| 1,1-Dichloroethene         | A                | 6950                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| Tertiary butyl Alcohol     | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Methylene chloride         | B                | 3380                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| 3-Chloropropene            | -                | 15.6                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Carbon disulfide           | -                | 24300               | ug/m3 | 1.14        | 0.8         | 2.33        | ND          | ND          | 1.17        | 1.1         | 2.51        | ND          |                              |           |
| Freon-113                  | -                | 174000              | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| trans-1,2-Dichloroethene   | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 1,1-Dichloroethane         | -                | 58.5                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Methyl tert butyl ether    | -                | 360                 | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 2-Butanone                 | -                | 174000              | ug/m3 | --          | --          | --          | --          | --          | 324         | --          | --          | --          |                              |           |
| 2-Butanone                 | -                | 174000              | ug/m3 | 208         | 244         | 93.8        | 146         | 66.7        | 324 E       | 274         | 56.6        | 89.4        |                              |           |
| cis-1,2-Dichloroethene     | A                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| Ethyl Acetate              | -                | 2430                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Chloroform                 | -                | 4.07                | ug/m3 | ND          | ND          | 1.01        | 3.64        | 2.06        | 3.59        | 3.22        | ND          | ND          |                              |           |
| Tetrahydrofuran            | -                | 69500               | ug/m3 | ND          | ND          | ND          | ND          | ND          | 1.98        | ND          | ND          | ND          |                              |           |
| 1,2-Dichloroethane         | -                | 3.6                 | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| n-Hexane                   | -                | 24300               | ug/m3 | 8.78        | 8.63        | 4.76        | 7.65        | 2.9         | 22.3        | 13.4        | 15.4        | 7.61        |                              |           |
| 1,1,1-Trichloroethane      | B                | 174000              | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | 1.3         | ND          | ND          | No further action            |           |
| Benzene                    | -                | 12                  | ug/m3 | 5.75        | 5.65        | 3.9         | 5.14        | 2.02        | 13.7        | 10.2        | 21.3        | 12.8        |                              |           |
| Carbon tetrachloride       | A                | 15.6                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| Cyclohexane                | -                | 209000              | ug/m3 | 1.02        | 0.74        | ND          | ND          | ND          | 2.29        | 1.33        | 3.26        | ND          |                              |           |
| 1,2-Dichloropropane        | -                | 25.3                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Bromodichloromethane       | -                | 2.53                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 1,4-Dioxane                | -                | 18.7                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Trichloroethene            | A                | 15.9                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | No further action            |           |
| 2,2,4-Trimethylpentane     | -                | NS                  | ug/m3 | 4.86        | 2.06        | 3.58        | 1.63        | 1.5         | 5.79        | 3.44        | 35.7        | 12.8        |                              |           |
| Heptane                    | -                | NS                  | ug/m3 | 8.93        | 8.89        | 6.27        | 8.52        | 3.11        | 24.3        | 18.6        | 58.2        | 29          |                              |           |
| cis-1,3-Dichloropropene    | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 4-Methyl-2-pentanone       | -                | 104000              | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| trans-1,3-Dichloropropene  | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 1,1,2-Trichloroethane      | -                | 5.85                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Toluene                    | -                | 174000              | ug/m3 | 118         | 113         | 91.6        | 107         | 35.5        | 213         | 182         | 897         | 595         |                              |           |
| 2-Hexanone                 | -                | 1040                | ug/m3 | 20.5        | 23.6        | 18.6        | 20.5        | 3.87        | 43.9        | 37.8        | ND          | ND          |                              |           |
| Dibromochloromethane       | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| 1,2-Dibromoethane          | -                | 0.156               | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |
| Tetrachloroethene          | B                | 360                 | ug/m3 | 2.37        | 2.65        | 1.89        | 2.05        | ND          | 2.99        | 2.67        | ND          | ND          | No further action            |           |
| Chlorobenzene              | -                | 1740                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |           |



Table 2. Volatile Organic Compounds in Soil Vapor  
River North  
Phase II Environmental Site Investigation Report

| LOCATION                   | NYSDOH<br>Matrix | EPA-VISL<br>-RTSSGC | Units | SV-7        | SV-8        | SV-9        | SV-10       | SV-11       | SV-12       | SV-13       | SV-14       | SV-15       | NYSDOH<br>Matrix<br>Decision |
|----------------------------|------------------|---------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|
| SAMPLING DATE              |                  |                     |       | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   | 1/21/2021   |                              |
| LAB SAMPLE ID              |                  |                     |       | L2103206-01 | L2103206-02 | L2103206-03 | L2103206-04 | L2103206-05 | L2103206-06 | L2103206-07 | L2103206-08 | L2103206-09 |                              |
|                            |                  |                     |       | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        | Qual        |                              |
| Volatile Organic Compounds |                  |                     |       |             |             |             |             |             |             |             |             |             |                              |
| Ethylbenzene               | -                | 37.4                | ug/m3 | 23.5        | 23.7        | 22.5        | 22.5        | 5.08        | 31.8        | 30.2        | 203         | 163         |                              |
| p/m-Xylene                 | -                | 3480                | ug/m3 | 75.6        | 78.2        | 79.9        | 75.6        | 16.2        | 96.4        | 93.8        | 634         | 547         |                              |
| Bromoform                  | -                | 85.1                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| Styrene                    | -                | 34800               | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| 1,1,2,2-Tetrachloroethane  | -                | 1.61                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| o-Xylene                   | -                | 3480                | ug/m3 | 20          | 21.2        | 21.7        | 18.9        | 3.86        | 25.3        | 25          | 175         | 150         |                              |
| 4-Ethyltoluene             | -                | NS                  | ug/m3 | 4.63        | 5.46        | 5.65        | 4.29        | ND          | 5.26        | 6.15        | 56.5        | 60          |                              |
| 1,3,5-Trimethylbenzene     | -                | 2090                | ug/m3 | 1.93        | 2.91        | 3.27        | 1.82        | ND          | 2.75        | 3.48        | 26.2        | 25          |                              |
| 1,2,4-Trimethylbenzene     | -                | 2090                | ug/m3 | 8.21        | 12.4        | 13.8        | 8.21        | 1.75        | 11.4        | 14.4        | 96.8        | 98.3        |                              |
| Benzyl chloride            | -                | 1.91                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| 1,3-Dichlorobenzene        | -                | NS                  | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| 1,4-Dichlorobenzene        | -                | 8.51                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| 1,2-Dichlorobenzene        | -                | 6950                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| 1,2,4-Trichlorobenzene     | -                | 69.5                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |
| Hexachlorobutadiene        | -                | 4.25                | ug/m3 | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          | ND          |                              |

**Notes:**

**Bold and yellow shaded value indicates concentration exceeds EPA-VISL-RTSSGC**

\* = NYSDOH Matrix Decisions are described in the report narrative and the NYSDOH Soil Vapor Guidance, with May 2017 updates

\*\* = EPA VISL Default Residential Target Sub-Slab & Exterior Soil Gas Concentrations Criteria

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID              | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|-------------------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE                 |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID                 |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                               |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| General Chemistry             |          |          |       |             |                |             |                |             |
| Solids, Total                 | NS       | NS       | %     | 88.5        | 87.9           | 87.1        | 83.7           | 84.3        |
| Volatile Organics by EPA 5035 |          |          |       |             |                |             |                |             |
| 1,1,1,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1,1-Trichloroethane         | 0.68     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1,2,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1,2-Trichloroethane         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1-Dichloroethane            | 0.27     | 26       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1-Dichloroethene            | 0.33     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,1-Dichloropropene           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,3-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,3-Trichloropropane        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,4,5-Tetramethylbenzene    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,4-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,4-Trimethylbenzene        | 3.6      | 52       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dibromo-3-chloropropane   | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dibromoethane             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dichlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dichloroethane            | 0.02     | 3.1      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dichloroethene, Total     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,3,5-Trimethylbenzene        | 8.4      | 52       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,3-Dichlorobenzene           | 2.4      | 49       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,3-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,3-Dichloropropene, Total    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,4-Dichlorobenzene           | 1.8      | 13       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,4-Dioxane                   | 0.1      | 13       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Butanone                    | 0.12     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Hexanone                    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Methyl-2-pentanone          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Acetone                       | 0.05     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID        | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|-------------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE           |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID           |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                         |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| Acrylonitrile           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Benzene                 | 0.06     | 4.8      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bromobenzene            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bromochloromethane      | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bromodichloromethane    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bromoform               | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bromomethane            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Carbon disulfide        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Carbon tetrachloride    | 0.76     | 2.4      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Chlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Chloroethane            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Chloroform              | 0.37     | 49       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Chloromethane           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| cis-1,2-Dichloroethene  | 0.25     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| cis-1,3-Dichloropropene | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Dibromochloromethane    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Dibromomethane          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Dichlorodifluoromethane | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Ethyl ether             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Ethylbenzene            | 1        | 41       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Hexachlorobutadiene     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Isopropylbenzene        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Methyl tert butyl ether | 0.93     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Methylene chloride      | 0.05     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| n-Butylbenzene          | 12       | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| n-Propylbenzene         | 3.9      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Naphthalene             | 12       | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| o-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| o-Xylene                | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| p-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| p-Diethylbenzene        | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| p-Ethyltoluene          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|-----------------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE               |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID               |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                             |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| p-Isopropyltoluene          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| p/m-Xylene                  | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| sec-Butylbenzene            | 11       | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Styrene                     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| tert-Butylbenzene           | 5.9      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Tetrachloroethene           | 1.3      | 19       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Toluene                     | 0.7      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| trans-1,2-Dichloroethene    | 0.19     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| trans-1,3-Dichloropropene   | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| trans-1,4-Dichloro-2-butene | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Trichloroethene             | 0.47     | 21       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Trichlorofluoromethane      | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Vinyl acetate               | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Vinyl chloride              | 0.02     | 0.9      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Xylenes, Total              | 0.26     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID              | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|-------------------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE                 |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID                 |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                               |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| General Chemistry             |          |          |       |             |             |                   |             |               |
| Solids, Total                 | NS       | NS       | %     | 91.7        | 90.9        | 92.2              | 81.4        | 92.1          |
| Volatile Organics by EPA 5035 |          |          |       |             |             |                   |             |               |
| 1,1,1,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1,1-Trichloroethane         | 0.68     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1,2,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1,2-Trichloroethane         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1-Dichloroethane            | 0.27     | 26       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1-Dichloroethene            | 0.33     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,1-Dichloropropene           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,3-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,3-Trichloropropane        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,4,5-Tetramethylbenzene    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,4-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,4-Trimethylbenzene        | 3.6      | 52       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dibromo-3-chloropropane   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dibromoethane             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dichlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dichloroethane            | 0.02     | 3.1      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dichloroethene, Total     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,3,5-Trimethylbenzene        | 8.4      | 52       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,3-Dichlorobenzene           | 2.4      | 49       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,3-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,3-Dichloropropene, Total    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,4-Dichlorobenzene           | 1.8      | 13       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,4-Dioxane                   | 0.1      | 13       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Butanone                    | 0.12     | 100      | mg/kg | ND          | 0.0023 J    | ND                | ND          | ND            |
| 2-Hexanone                    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Methyl-2-pentanone          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Acetone                       | 0.05     | 100      | mg/kg | ND          | 0.021       | ND                | ND          | ND            |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID        | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|-------------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE           |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID           |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                         |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| Acrylonitrile           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Benzene                 | 0.06     | 4.8      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bromobenzene            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bromochloromethane      | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bromodichloromethane    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bromoform               | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bromomethane            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Carbon disulfide        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Carbon tetrachloride    | 0.76     | 2.4      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Chlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Chloroethane            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Chloroform              | 0.37     | 49       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Chloromethane           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| cis-1,2-Dichloroethene  | 0.25     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| cis-1,3-Dichloropropene | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Dibromochloromethane    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Dibromomethane          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Dichlorodifluoromethane | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Ethyl ether             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Ethylbenzene            | 1        | 41       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Hexachlorobutadiene     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Isopropylbenzene        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Methyl tert butyl ether | 0.93     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Methylene chloride      | 0.05     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| n-Butylbenzene          | 12       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| n-Propylbenzene         | 3.9      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Naphthalene             | 12       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| o-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| o-Xylene                | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| p-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| p-Diethylbenzene        | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| p-Ethyltoluene          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|-----------------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE               |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID               |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                             |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| p-Isopropyltoluene          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| p/m-Xylene                  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| sec-Butylbenzene            | 11       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Styrene                     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| tert-Butylbenzene           | 5.9      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Tetrachloroethene           | 1.3      | 19       | mg/kg | ND          | ND          | ND                | 0.00045 J   | 0.00038 J     |
| Toluene                     | 0.7      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| trans-1,2-Dichloroethene    | 0.19     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| trans-1,3-Dichloropropene   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| trans-1,4-Dichloro-2-butene | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Trichloroethene             | 0.47     | 21       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Trichlorofluoromethane      | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Vinyl acetate               | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Vinyl chloride              | 0.02     | 0.9      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Xylenes, Total              | 0.26     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard



Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID              | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|-------------------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE                 |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID                 |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                               |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| General Chemistry             |          |          |       |             |                   |             |                 |             |
| Solids, Total                 | NS       | NS       | %     | 82.4        | 82.6              | 80          | 83.4            | 84.8        |
| Volatile Organics by EPA 5035 |          |          |       |             |                   |             |                 |             |
| 1,1,1,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1,1-Trichloroethane         | 0.68     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1,2,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1,2-Trichloroethane         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1-Dichloroethane            | 0.27     | 26       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1-Dichloroethene            | 0.33     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,1-Dichloropropene           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,3-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,3-Trichloropropane        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,4,5-Tetramethylbenzene    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,4-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,4-Trimethylbenzene        | 3.6      | 52       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dibromo-3-chloropropane   | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dibromoethane             | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dichlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dichloroethane            | 0.02     | 3.1      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dichloroethene, Total     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,3,5-Trimethylbenzene        | 8.4      | 52       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,3-Dichlorobenzene           | 2.4      | 49       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,3-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,3-Dichloropropene, Total    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,4-Dichlorobenzene           | 1.8      | 13       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,4-Dioxane                   | 0.1      | 13       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Butanone                    | 0.12     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Hexanone                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Methyl-2-pentanone          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Acetone                       | 0.05     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID        | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|-------------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE           |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID           |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                         |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| Acrylonitrile           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Benzene                 | 0.06     | 4.8      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bromobenzene            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bromochloromethane      | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bromodichloromethane    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bromoform               | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bromomethane            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Carbon disulfide        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Carbon tetrachloride    | 0.76     | 2.4      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Chlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Chloroethane            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Chloroform              | 0.37     | 49       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Chloromethane           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| cis-1,2-Dichloroethene  | 0.25     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| cis-1,3-Dichloropropene | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Dibromochloromethane    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Dibromomethane          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Dichlorodifluoromethane | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Ethyl ether             | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Ethylbenzene            | 1        | 41       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Hexachlorobutadiene     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Isopropylbenzene        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Methyl tert butyl ether | 0.93     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Methylene chloride      | 0.05     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| n-Butylbenzene          | 12       | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| n-Propylbenzene         | 3.9      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Naphthalene             | 12       | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| o-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| o-Xylene                | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| p-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| p-Diethylbenzene        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| p-Ethyltoluene          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|-----------------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE               |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID               |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                             |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| p-Isopropyltoluene          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| p/m-Xylene                  | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| sec-Butylbenzene            | 11       | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Styrene                     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| tert-Butylbenzene           | 5.9      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Tetrachloroethene           | 1.3      | 19       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Toluene                     | 0.7      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| trans-1,2-Dichloroethene    | 0.19     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| trans-1,3-Dichloropropene   | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| trans-1,4-Dichloro-2-butene | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Trichloroethene             | 0.47     | 21       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Trichlorofluoromethane      | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Vinyl acetate               | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Vinyl chloride              | 0.02     | 0.9      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Xylenes, Total              | 0.26     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID              | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|-------------------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE                 |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID                 |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                               |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| General Chemistry             |          |          |       |                   |             |             |             |             |
| Solids, Total                 | NS       | NS       | %     | 83.9              | 82.2        | 82.1        | 87.4        | 85.4        |
| Volatile Organics by EPA 5035 |          |          |       |                   |             |             |             |             |
| 1,1,1,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1,1-Trichloroethane         | 0.68     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1,2,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1,2-Trichloroethane         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1-Dichloroethane            | 0.27     | 26       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1-Dichloroethene            | 0.33     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,1-Dichloropropene           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,3-Trichlorobenzene        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,3-Trichloropropane        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,4,5-Tetramethylbenzene    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,4-Trichlorobenzene        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,4-Trimethylbenzene        | 3.6      | 52       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dibromo-3-chloropropane   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dibromoethane             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dichlorobenzene           | 1.1      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dichloroethane            | 0.02     | 3.1      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dichloroethene, Total     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dichloropropane           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,3,5-Trimethylbenzene        | 8.4      | 52       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,3-Dichlorobenzene           | 2.4      | 49       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,3-Dichloropropane           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,3-Dichloropropene, Total    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,4-Dichlorobenzene           | 1.8      | 13       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,4-Dioxane                   | 0.1      | 13       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,2-Dichloropropane           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Butanone                    | 0.12     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Hexanone                    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Methyl-2-pentanone          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Acetone                       | 0.05     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID        | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|-------------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE           |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID           |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                         |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| Acrylonitrile           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Benzene                 | 0.06     | 4.8      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bromobenzene            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bromochloromethane      | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bromodichloromethane    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bromoform               | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bromomethane            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Carbon disulfide        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Carbon tetrachloride    | 0.76     | 2.4      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Chlorobenzene           | 1.1      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Chloroethane            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Chloroform              | 0.37     | 49       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Chloromethane           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| cis-1,2-Dichloroethene  | 0.25     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| cis-1,3-Dichloropropene | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dibromochloromethane    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dibromomethane          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dichlorodifluoromethane | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Ethyl ether             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Ethylbenzene            | 1        | 41       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Hexachlorobutadiene     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Isopropylbenzene        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Methyl tert butyl ether | 0.93     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Methylene chloride      | 0.05     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| n-Butylbenzene          | 12       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| n-Propylbenzene         | 3.9      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Naphthalene             | 12       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| o-Chlorotoluene         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| o-Xylene                | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| p-Chlorotoluene         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| p-Diethylbenzene        | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| p-Ethyltoluene          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|-----------------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE               |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID               |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                             |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| p-Isopropyltoluene          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| p/m-Xylene                  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| sec-Butylbenzene            | 11       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Styrene                     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| tert-Butylbenzene           | 5.9      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Tetrachloroethene           | 1.3      | 19       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Toluene                     | 0.7      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| trans-1,2-Dichloroethene    | 0.19     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| trans-1,3-Dichloropropene   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| trans-1,4-Dichloro-2-butene | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Trichloroethene             | 0.47     | 21       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Trichlorofluoromethane      | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Vinyl acetate               | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Vinyl chloride              | 0.02     | 0.9      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Xylenes, Total              | 0.26     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds  
NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds  
NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup  
Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil  
Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID              | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|-------------------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE                 |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID                 |          |          |       | L2102822-11 | L2102822-12  |
|                               |          |          |       | Qual        | Qual         |
| General Chemistry             |          |          |       |             |              |
| Solids, Total                 | NS       | NS       | %     | 88.9        | 87.2         |
| Volatile Organics by EPA 5035 |          |          |       |             |              |
| 1,1,1,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND           |
| 1,1,1-Trichloroethane         | 0.68     | 100      | mg/kg | ND          | ND           |
| 1,1,2,2-Tetrachloroethane     | NS       | NS       | mg/kg | ND          | ND           |
| 1,1,2-Trichloroethane         | NS       | NS       | mg/kg | ND          | ND           |
| 1,1-Dichloroethane            | 0.27     | 26       | mg/kg | ND          | ND           |
| 1,1-Dichloroethene            | 0.33     | 100      | mg/kg | ND          | ND           |
| 1,1-Dichloropropene           | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,3-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,3-Trichloropropane        | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,4,5-Tetramethylbenzene    | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,4-Trichlorobenzene        | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,4-Trimethylbenzene        | 3.6      | 52       | mg/kg | ND          | ND           |
| 1,2-Dibromo-3-chloropropane   | NS       | NS       | mg/kg | ND          | ND           |
| 1,2-Dibromoethane             | NS       | NS       | mg/kg | ND          | ND           |
| 1,2-Dichlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND           |
| 1,2-Dichloroethane            | 0.02     | 3.1      | mg/kg | ND          | ND           |
| 1,2-Dichloroethene, Total     | NS       | NS       | mg/kg | ND          | ND           |
| 1,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND           |
| 1,3,5-Trimethylbenzene        | 8.4      | 52       | mg/kg | ND          | ND           |
| 1,3-Dichlorobenzene           | 2.4      | 49       | mg/kg | ND          | ND           |
| 1,3-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND           |
| 1,3-Dichloropropene, Total    | NS       | NS       | mg/kg | ND          | ND           |
| 1,4-Dichlorobenzene           | 1.8      | 13       | mg/kg | ND          | ND           |
| 1,4-Dioxane                   | 0.1      | 13       | mg/kg | ND          | ND           |
| 2,2-Dichloropropane           | NS       | NS       | mg/kg | ND          | ND           |
| 2-Butanone                    | 0.12     | 100      | mg/kg | ND          | ND           |
| 2-Hexanone                    | NS       | NS       | mg/kg | ND          | ND           |
| 4-Methyl-2-pentanone          | NS       | NS       | mg/kg | ND          | ND           |
| Acetone                       | 0.05     | 100      | mg/kg | ND          | 0.0081 J     |

Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID        | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|-------------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE           |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID           |          |          |       | L2102822-11 | L2102822-12  |
|                         |          |          |       | Qual        | Qual         |
| Acrylonitrile           | NS       | NS       | mg/kg | ND          | ND           |
| Benzene                 | 0.06     | 4.8      | mg/kg | ND          | ND           |
| Bromobenzene            | NS       | NS       | mg/kg | ND          | ND           |
| Bromochloromethane      | NS       | NS       | mg/kg | ND          | ND           |
| Bromodichloromethane    | NS       | NS       | mg/kg | ND          | ND           |
| Bromoform               | NS       | NS       | mg/kg | ND          | ND           |
| Bromomethane            | NS       | NS       | mg/kg | ND          | ND           |
| Carbon disulfide        | NS       | NS       | mg/kg | ND          | ND           |
| Carbon tetrachloride    | 0.76     | 2.4      | mg/kg | ND          | ND           |
| Chlorobenzene           | 1.1      | 100      | mg/kg | ND          | ND           |
| Chloroethane            | NS       | NS       | mg/kg | ND          | ND           |
| Chloroform              | 0.37     | 49       | mg/kg | ND          | ND           |
| Chloromethane           | NS       | NS       | mg/kg | ND          | ND           |
| cis-1,2-Dichloroethene  | 0.25     | 100      | mg/kg | ND          | ND           |
| cis-1,3-Dichloropropene | NS       | NS       | mg/kg | ND          | ND           |
| Dibromochloromethane    | NS       | NS       | mg/kg | ND          | ND           |
| Dibromomethane          | NS       | NS       | mg/kg | ND          | ND           |
| Dichlorodifluoromethane | NS       | NS       | mg/kg | ND          | ND           |
| Ethyl ether             | NS       | NS       | mg/kg | ND          | ND           |
| Ethylbenzene            | 1        | 41       | mg/kg | ND          | ND           |
| Hexachlorobutadiene     | NS       | NS       | mg/kg | ND          | ND           |
| Isopropylbenzene        | NS       | NS       | mg/kg | ND          | ND           |
| Methyl tert butyl ether | 0.93     | 100      | mg/kg | ND          | ND           |
| Methylene chloride      | 0.05     | 100      | mg/kg | ND          | ND           |
| n-Butylbenzene          | 12       | 100      | mg/kg | ND          | ND           |
| n-Propylbenzene         | 3.9      | 100      | mg/kg | ND          | ND           |
| Naphthalene             | 12       | 100      | mg/kg | ND          | ND           |
| o-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND           |
| o-Xylene                | NS       | NS       | mg/kg | ND          | ND           |
| p-Chlorotoluene         | NS       | NS       | mg/kg | ND          | ND           |
| p-Diethylbenzene        | NS       | NS       | mg/kg | ND          | ND           |
| p-Ethyltoluene          | NS       | NS       | mg/kg | ND          | ND           |



Table 3a. Volatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|-----------------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE               |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID               |          |          |       | L2102822-11 | L2102822-12  |
|                             |          |          |       | Qual        | Qual         |
| p-Isopropyltoluene          | NS       | NS       | mg/kg | ND          | ND           |
| p/m-Xylene                  | NS       | NS       | mg/kg | ND          | ND           |
| sec-Butylbenzene            | 11       | 100      | mg/kg | ND          | ND           |
| Styrene                     | NS       | NS       | mg/kg | ND          | ND           |
| tert-Butylbenzene           | 5.9      | 100      | mg/kg | ND          | ND           |
| Tetrachloroethene           | 1.3      | 19       | mg/kg | ND          | ND           |
| Toluene                     | 0.7      | 100      | mg/kg | ND          | ND           |
| trans-1,2-Dichloroethene    | 0.19     | 100      | mg/kg | ND          | ND           |
| trans-1,3-Dichloropropene   | NS       | NS       | mg/kg | ND          | ND           |
| trans-1,4-Dichloro-2-butene | NS       | NS       | mg/kg | ND          | ND           |
| Trichloroethene             | 0.47     | 21       | mg/kg | ND          | ND           |
| Trichlorofluoromethane      | NS       | NS       | mg/kg | ND          | ND           |
| Vinyl acetate               | NS       | NS       | mg/kg | ND          | ND           |
| Vinyl chloride              | 0.02     | 0.9      | mg/kg | ND          | ND           |
| Xylenes, Total              | 0.26     | 100      | mg/kg | ND          | ND           |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID               | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|--------------------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE                  |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID                  |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                                |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| Semivolatile Organics by GC/MS |          |          |       |             |                |             |                |             |
| 1,2,4,5-Tetrachlorobenzene     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2,4-Trichlorobenzene         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,2-Dichlorobenzene            | 1.1      | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,3-Dichlorobenzene            | 2.4      | 49       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,4-Dichlorobenzene            | 1.8      | 13       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 1,4-Dioxane                    | 0.1      | 13       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4,5-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4,6-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4-Dichlorophenol             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4-Dimethylphenol             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4-Dinitrophenol              | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,4-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2,6-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Chloronaphthalene            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Chlorophenol                 | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Methylnaphthalene            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Methylphenol                 | 0.33     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 2-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 3,3'-Dichlorobenzidine         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 3-Methylphenol/4-Methylphenol  | 0.33     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 3-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4,6-Dinitro-o-cresol           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Bromophenyl phenyl ether     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Chloroaniline                | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Chlorophenyl phenyl ether    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| 4-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Acenaphthene                   | 20       | 100      | mg/kg | 0.067 J     | ND             | ND          | ND             | ND          |
| Acenaphthylene                 | 100      | 100      | mg/kg | 0.059 J     | ND             | ND          | ND             | 0.55 J      |
| Acetophenone                   | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|-----------------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE               |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID               |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                             |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| Anthracene                  | 100      | 100      | mg/kg | 0.33        | ND             | ND          | ND             | 0.41 J      |
| Benzo(a)anthracene          | 1        | 1        | mg/kg | 0.7         | ND             | 0.078 J     | ND             | 1.5         |
| Benzo(a)pyrene              | 1        | 1        | mg/kg | 0.59        | ND             | 0.064 J     | ND             | 1.8         |
| Benzo(b)fluoranthene        | 1        | 1        | mg/kg | 0.76        | ND             | 0.08 J      | ND             | 2.3         |
| Benzo(ghi)perylene          | 100      | 100      | mg/kg | 0.38        | ND             | 0.045 J     | ND             | 1.3         |
| Benzo(k)fluoranthene        | 0.8      | 3.9      | mg/kg | 0.26        | ND             | ND          | ND             | 0.73        |
| Benzoic Acid                | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Benzyl Alcohol              | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Biphenyl                    | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bis(2-chloroethoxy)methane  | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bis(2-chloroethyl)ether     | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bis(2-chloroisopropyl)ether | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Bis(2-ethylhexyl)phthalate  | NS       | NS       | mg/kg | 0.09 J      | ND             | ND          | ND             | ND          |
| Butyl benzyl phthalate      | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Carbazole                   | NS       | NS       | mg/kg | 0.092 J     | ND             | ND          | ND             | 0.22 J      |
| Chrysene                    | 1        | 3.9      | mg/kg | 0.64        | ND             | 0.07 J      | ND             | 1.5         |
| Di-n-butylphthalate         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Di-n-octylphthalate         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Dibenzo(a,h)anthracene      | 0.33     | 0.33     | mg/kg | 0.082 J     | ND             | ND          | ND             | 0.31 J      |
| Dibenzofuran                | 7        | 59       | mg/kg | 0.086 J     | ND             | ND          | ND             | ND          |
| Diethyl phthalate           | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Dimethyl phthalate          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Fluoranthene                | 100      | 100      | mg/kg | 1.8         | ND             | 0.1 J       | ND             | 3           |
| Fluorene                    | 30       | 100      | mg/kg | 0.088 J     | ND             | ND          | ND             | 0.18 J      |
| Hexachlorobenzene           | 0.33     | 1.2      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Hexachlorobutadiene         | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Hexachlorocyclopentadiene   | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Hexachloroethane            | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Indeno(1,2,3-cd)pyrene      | 0.5      | 0.5      | mg/kg | 0.39        | ND             | 0.043 J     | ND             | 1.3         |
| Isophorone                  | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| n-Nitrosodi-n-propylamine   | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Naphthalene                 | 12       | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID  | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) |
|-------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|
| SAMPLING DATE     |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   |
| LAB SAMPLE ID     |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 |
|                   |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        |
| NDPA/DPA          | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Nitrobenzene      | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| p-Chloro-m-cresol | NS       | NS       | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Pentachlorophenol | 0.8      | 6.7      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Phenanthrene      | 100      | 100      | mg/kg | 1.5         | ND             | 0.04 J      | ND             | 1.7         |
| Phenol            | 0.33     | 100      | mg/kg | ND          | ND             | ND          | ND             | ND          |
| Pyrene            | 100      | 100      | mg/kg | 1.5         | ND             | 0.11        | ND             | 2.2         |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds  
NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds  
NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup  
Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup  
Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID               | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|--------------------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE                  |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID                  |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                                |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| Semivolatile Organics by GC/MS |          |          |       |             |             |                   |             |               |
| 1,2,4,5-Tetrachlorobenzene     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2,4-Trichlorobenzene         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,2-Dichlorobenzene            | 1.1      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,3-Dichlorobenzene            | 2.4      | 49       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,4-Dichlorobenzene            | 1.8      | 13       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 1,4-Dioxane                    | 0.1      | 13       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4,5-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4,6-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4-Dichlorophenol             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4-Dimethylphenol             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4-Dinitrophenol              | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,4-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2,6-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Chloronaphthalene            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Chlorophenol                 | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Methylnaphthalene            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Methylphenol                 | 0.33     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 2-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 3,3'-Dichlorobenzidine         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 3-Methylphenol/4-Methylphenol  | 0.33     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 3-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4,6-Dinitro-o-cresol           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Bromophenyl phenyl ether     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Chloroaniline                | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Chlorophenyl phenyl ether    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| 4-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Acenaphthene                   | 20       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Acenaphthylene                 | 100      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Acetophenone                   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|-----------------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE               |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID               |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                             |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| Anthracene                  | 100      | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Benzo(a)anthracene          | 1        | 1        | mg/kg | ND          | ND          | ND                | 0.19        | ND            |
| Benzo(a)pyrene              | 1        | 1        | mg/kg | ND          | ND          | ND                | 0.14 J      | ND            |
| Benzo(b)fluoranthene        | 1        | 1        | mg/kg | ND          | ND          | ND                | 0.18        | ND            |
| Benzo(ghi)perylene          | 100      | 100      | mg/kg | ND          | ND          | ND                | 0.13 J      | ND            |
| Benzo(k)fluoranthene        | 0.8      | 3.9      | mg/kg | ND          | ND          | ND                | 0.05 J      | ND            |
| Benzoic Acid                | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Benzyl Alcohol              | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Biphenyl                    | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bis(2-chloroethoxy)methane  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bis(2-chloroethyl)ether     | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bis(2-chloroisopropyl)ether | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Bis(2-ethylhexyl)phthalate  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Butyl benzyl phthalate      | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Carbazole                   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Chrysene                    | 1        | 3.9      | mg/kg | ND          | ND          | ND                | 0.17        | ND            |
| Di-n-butylphthalate         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Di-n-octylphthalate         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Dibenzo(a,h)anthracene      | 0.33     | 0.33     | mg/kg | ND          | ND          | ND                | 0.033 J     | ND            |
| Dibenzofuran                | 7        | 59       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Diethyl phthalate           | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Dimethyl phthalate          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Fluoranthene                | 100      | 100      | mg/kg | ND          | ND          | ND                | 0.35        | ND            |
| Fluorene                    | 30       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Hexachlorobenzene           | 0.33     | 1.2      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Hexachlorobutadiene         | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Hexachlorocyclopentadiene   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Hexachloroethane            | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Indeno(1,2,3-cd)pyrene      | 0.5      | 0.5      | mg/kg | ND          | ND          | ND                | 0.15 J      | ND            |
| Isophorone                  | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| n-Nitrosodi-n-propylamine   | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Naphthalene                 | 12       | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID  | NY-UNRES | NY-RESRR | Units | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2) | SB-18 (20-22) |
|-------------------|----------|----------|-------|-------------|-------------|-------------------|-------------|---------------|
| SAMPLING DATE     |          |          |       | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021   | 1/18/2021     |
| LAB SAMPLE ID     |          |          |       | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11 | L2102678-12   |
|                   |          |          |       | Qual        | Qual        | Qual              | Qual        | Qual          |
| NDPA/DPA          | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Nitrobenzene      | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| p-Chloro-m-cresol | NS       | NS       | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Pentachlorophenol | 0.8      | 6.7      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Phenanthrene      | 100      | 100      | mg/kg | ND          | ND          | ND                | 0.22        | ND            |
| Phenol            | 0.33     | 100      | mg/kg | ND          | ND          | ND                | ND          | ND            |
| Pyrene            | 100      | 100      | mg/kg | ND          | ND          | ND                | 0.33        | ND            |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID                      | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|---------------------------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE                         |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID                         |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                                       |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| <b>Semivolatile Organics by GC/MS</b> |          |          |       |             |                   |             |                 |             |
| 1,2,4,5-Tetrachlorobenzene            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2,4-Trichlorobenzene                | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,2-Dichlorobenzene                   | 1.1      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,3-Dichlorobenzene                   | 2.4      | 49       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,4-Dichlorobenzene                   | 1.8      | 13       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 1,4-Dioxane                           | 0.1      | 13       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4,5-Trichlorophenol                 | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4,6-Trichlorophenol                 | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4-Dichlorophenol                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4-Dimethylphenol                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4-Dinitrophenol                     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,4-Dinitrotoluene                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2,6-Dinitrotoluene                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Chloronaphthalene                   | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Chlorophenol                        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Methylnaphthalene                   | NS       | NS       | mg/kg | 0.042 J     | ND                | ND          | ND              | ND          |
| 2-Methylphenol                        | 0.33     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Nitroaniline                        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 2-Nitrophenol                         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 3,3'-Dichlorobenzidine                | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 3-Methylphenol/4-Methylphenol         | 0.33     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 3-Nitroaniline                        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4,6-Dinitro-o-cresol                  | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Bromophenyl phenyl ether            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Chloroaniline                       | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Chlorophenyl phenyl ether           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Nitroaniline                        | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| 4-Nitrophenol                         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Acenaphthene                          | 20       | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Acenaphthylene                        | 100      | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Acetophenone                          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |



Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|-----------------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE               |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID               |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                             |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| Anthracene                  | 100      | 100      | mg/kg | ND          | ND                | 0.04 J      | ND              | 0.044 J     |
| Benzo(a)anthracene          | 1        | 1        | mg/kg | 0.14        | ND                | 0.18        | ND              | 0.17        |
| Benzo(a)pyrene              | 1        | 1        | mg/kg | 0.15 J      | ND                | 0.19        | ND              | 0.12 J      |
| Benzo(b)fluoranthene        | 1        | 1        | mg/kg | 0.22        | ND                | 0.26        | ND              | 0.16        |
| Benzo(ghi)perylene          | 100      | 100      | mg/kg | 0.11 J      | ND                | 0.12 J      | ND              | 0.074 J     |
| Benzo(k)fluoranthene        | 0.8      | 3.9      | mg/kg | 0.073 J     | ND                | 0.068 J     | ND              | 0.056 J     |
| Benzoic Acid                | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Benzyl Alcohol              | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Biphenyl                    | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bis(2-chloroethoxy)methane  | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bis(2-chloroethyl)ether     | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bis(2-chloroisopropyl)ether | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Bis(2-ethylhexyl)phthalate  | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Butyl benzyl phthalate      | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Carbazole                   | NS       | NS       | mg/kg | 0.021 J     | ND                | 0.02 J      | ND              | ND          |
| Chrysene                    | 1        | 3.9      | mg/kg | 0.17        | ND                | 0.18        | ND              | 0.16        |
| Di-n-butylphthalate         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Di-n-octylphthalate         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Dibenzo(a,h)anthracene      | 0.33     | 0.33     | mg/kg | 0.031 J     | ND                | 0.031 J     | ND              | 0.023 J     |
| Dibenzofuran                | 7        | 59       | mg/kg | 0.022 J     | ND                | ND          | ND              | ND          |
| Diethyl phthalate           | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Dimethyl phthalate          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Fluoranthene                | 100      | 100      | mg/kg | 0.25        | ND                | 0.32        | ND              | 0.3         |
| Fluorene                    | 30       | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Hexachlorobenzene           | 0.33     | 1.2      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Hexachlorobutadiene         | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Hexachlorocyclopentadiene   | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Hexachloroethane            | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Indeno(1,2,3-cd)pyrene      | 0.5      | 0.5      | mg/kg | 0.11 J      | ND                | 0.12 J      | ND              | 0.081 J     |
| Isophorone                  | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| n-Nitrosodi-n-propylamine   | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Naphthalene                 | 12       | 100      | mg/kg | 0.059 J     | ND                | ND          | ND              | ND          |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID  | NY-UNRES | NY-RESRR | Units | SB-14 (0-2) | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) |
|-------------------|----------|----------|-------|-------------|-------------------|-------------|-----------------|-------------|
| SAMPLING DATE     |          |          |       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID     |          |          |       | L2102822-01 | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 |
|                   |          |          |       | Qual        | Qual              | Qual        | Qual            | Qual        |
| NDPA/DPA          | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Nitrobenzene      | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| p-Chloro-m-cresol | NS       | NS       | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Pentachlorophenol | 0.8      | 6.7      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Phenanthrene      | 100      | 100      | mg/kg | 0.15        | ND                | 0.16        | ND              | 0.2         |
| Phenol            | 0.33     | 100      | mg/kg | ND          | ND                | ND          | ND              | ND          |
| Pyrene            | 100      | 100      | mg/kg | 0.22        | ND                | 0.31        | ND              | 0.27        |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds  
NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds  
NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup  
Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup  
Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID               | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|--------------------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE                  |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID                  |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                                |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| Semivolatile Organics by GC/MS |          |          |       |                   |             |             |             |             |
| 1,2,4,5-Tetrachlorobenzene     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2,4-Trichlorobenzene         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,2-Dichlorobenzene            | 1.1      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,3-Dichlorobenzene            | 2.4      | 49       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,4-Dichlorobenzene            | 1.8      | 13       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 1,4-Dioxane                    | 0.1      | 13       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4,5-Trichlorophenol          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4,6-Trichlorophenol          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4-Dichlorophenol             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4-Dimethylphenol             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4-Dinitrophenol              | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,4-Dinitrotoluene             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2,6-Dinitrotoluene             | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Chloronaphthalene            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Chlorophenol                 | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Methylnaphthalene            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Methylphenol                 | 0.33     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Nitroaniline                 | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 2-Nitrophenol                  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 3,3'-Dichlorobenzidine         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 3-Methylphenol/4-Methylphenol  | 0.33     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 3-Nitroaniline                 | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4,6-Dinitro-o-cresol           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Bromophenyl phenyl ether     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Chloroaniline                | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Chlorophenyl phenyl ether    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Nitroaniline                 | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| 4-Nitrophenol                  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Acenaphthene                   | 20       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Acenaphthylene                 | 100      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Acetophenone                   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|-----------------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE               |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID               |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                             |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| Anthracene                  | 100      | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Benzo(a)anthracene          | 1        | 1        | mg/kg | ND                | 0.089 J     | ND          | 0.078 J     | 0.1 J       |
| Benzo(a)pyrene              | 1        | 1        | mg/kg | ND                | 0.08 J      | ND          | 0.072 J     | 0.1 J       |
| Benzo(b)fluoranthene        | 1        | 1        | mg/kg | ND                | 0.12        | ND          | 0.094 J     | 0.14        |
| Benzo(ghi)perylene          | 100      | 100      | mg/kg | ND                | 0.056 J     | ND          | 0.049 J     | 0.073 J     |
| Benzo(k)fluoranthene        | 0.8      | 3.9      | mg/kg | ND                | 0.034 J     | ND          | ND          | 0.053 J     |
| Benzoic Acid                | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Benzyl Alcohol              | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Biphenyl                    | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bis(2-chloroethoxy)methane  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bis(2-chloroethyl)ether     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bis(2-chloroisopropyl)ether | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Bis(2-ethylhexyl)phthalate  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Butyl benzyl phthalate      | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Carbazole                   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Chrysene                    | 1        | 3.9      | mg/kg | ND                | 0.086 J     | 0.021 J     | 0.072 J     | 0.11        |
| Di-n-butylphthalate         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Di-n-octylphthalate         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dibenzo(a,h)anthracene      | 0.33     | 0.33     | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dibenzofuran                | 7        | 59       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Diethyl phthalate           | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Dimethyl phthalate          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Fluoranthene                | 100      | 100      | mg/kg | ND                | 0.17        | 0.04 J      | 0.11        | 0.22        |
| Fluorene                    | 30       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Hexachlorobenzene           | 0.33     | 1.2      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Hexachlorobutadiene         | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Hexachlorocyclopentadiene   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Hexachloroethane            | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Indeno(1,2,3-cd)pyrene      | 0.5      | 0.5      | mg/kg | ND                | 0.061 J     | ND          | 0.045 J     | 0.077 J     |
| Isophorone                  | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| n-Nitrosodi-n-propylamine   | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Naphthalene                 | 12       | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID  | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) |
|-------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|
| SAMPLING DATE     |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   |
| LAB SAMPLE ID     |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 |
|                   |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        |
| NDPA/DPA          | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Nitrobenzene      | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| p-Chloro-m-cresol | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Pentachlorophenol | 0.8      | 6.7      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Phenanthrene      | 100      | 100      | mg/kg | ND                | 0.093 J     | 0.026 J     | 0.046 J     | 0.14        |
| Phenol            | 0.33     | 100      | mg/kg | ND                | ND          | ND          | ND          | ND          |
| Pyrene            | 100      | 100      | mg/kg | ND                | 0.14        | 0.036 J     | 0.12        | 0.18        |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID               | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|--------------------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE                  |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID                  |          |          |       | L2102822-11 | L2102822-12  |
|                                |          |          |       | Qual        | Qual         |
| Semivolatile Organics by GC/MS |          |          |       |             |              |
| 1,2,4,5-Tetrachlorobenzene     | NS       | NS       | mg/kg | ND          | ND           |
| 1,2,4-Trichlorobenzene         | NS       | NS       | mg/kg | ND          | ND           |
| 1,2-Dichlorobenzene            | 1.1      | 100      | mg/kg | ND          | ND           |
| 1,3-Dichlorobenzene            | 2.4      | 49       | mg/kg | ND          | ND           |
| 1,4-Dichlorobenzene            | 1.8      | 13       | mg/kg | ND          | ND           |
| 1,4-Dioxane                    | 0.1      | 13       | mg/kg | ND          | ND           |
| 2,4,5-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND           |
| 2,4,6-Trichlorophenol          | NS       | NS       | mg/kg | ND          | ND           |
| 2,4-Dichlorophenol             | NS       | NS       | mg/kg | ND          | ND           |
| 2,4-Dimethylphenol             | NS       | NS       | mg/kg | ND          | ND           |
| 2,4-Dinitrophenol              | NS       | NS       | mg/kg | ND          | ND           |
| 2,4-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND           |
| 2,6-Dinitrotoluene             | NS       | NS       | mg/kg | ND          | ND           |
| 2-Chloronaphthalene            | NS       | NS       | mg/kg | ND          | ND           |
| 2-Chlorophenol                 | NS       | NS       | mg/kg | ND          | ND           |
| 2-Methylnaphthalene            | NS       | NS       | mg/kg | ND          | ND           |
| 2-Methylphenol                 | 0.33     | 100      | mg/kg | ND          | ND           |
| 2-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND           |
| 2-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND           |
| 3,3'-Dichlorobenzidine         | NS       | NS       | mg/kg | ND          | ND           |
| 3-Methylphenol/4-Methylphenol  | 0.33     | 100      | mg/kg | ND          | ND           |
| 3-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND           |
| 4,6-Dinitro-o-cresol           | NS       | NS       | mg/kg | ND          | ND           |
| 4-Bromophenyl phenyl ether     | NS       | NS       | mg/kg | ND          | ND           |
| 4-Chloroaniline                | NS       | NS       | mg/kg | ND          | ND           |
| 4-Chlorophenyl phenyl ether    | NS       | NS       | mg/kg | ND          | ND           |
| 4-Nitroaniline                 | NS       | NS       | mg/kg | ND          | ND           |
| 4-Nitrophenol                  | NS       | NS       | mg/kg | ND          | ND           |
| Acenaphthene                   | 20       | 100      | mg/kg | ND          | ND           |
| Acenaphthylene                 | 100      | 100      | mg/kg | ND          | ND           |
| Acetophenone                   | NS       | NS       | mg/kg | ND          | ND           |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID            | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|-----------------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE               |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID               |          |          |       | L2102822-11 | L2102822-12  |
|                             |          |          |       | Qual        | Qual         |
| Anthracene                  | 100      | 100      | mg/kg | ND          | ND           |
| Benzo(a)anthracene          | 1        | 1        | mg/kg | ND          | 0.042 J      |
| Benzo(a)pyrene              | 1        | 1        | mg/kg | ND          | ND           |
| Benzo(b)fluoranthene        | 1        | 1        | mg/kg | ND          | 0.054 J      |
| Benzo(ghi)perylene          | 100      | 100      | mg/kg | ND          | 0.03 J       |
| Benzo(k)fluoranthene        | 0.8      | 3.9      | mg/kg | ND          | ND           |
| Benzoic Acid                | NS       | NS       | mg/kg | ND          | ND           |
| Benzyl Alcohol              | NS       | NS       | mg/kg | ND          | ND           |
| Biphenyl                    | NS       | NS       | mg/kg | ND          | ND           |
| Bis(2-chloroethoxy)methane  | NS       | NS       | mg/kg | ND          | ND           |
| Bis(2-chloroethyl)ether     | NS       | NS       | mg/kg | ND          | ND           |
| Bis(2-chloroisopropyl)ether | NS       | NS       | mg/kg | ND          | ND           |
| Bis(2-ethylhexyl)phthalate  | NS       | NS       | mg/kg | ND          | ND           |
| Butyl benzyl phthalate      | NS       | NS       | mg/kg | ND          | ND           |
| Carbazole                   | NS       | NS       | mg/kg | ND          | ND           |
| Chrysene                    | 1        | 3.9      | mg/kg | ND          | 0.045 J      |
| Di-n-butylphthalate         | NS       | NS       | mg/kg | ND          | ND           |
| Di-n-octylphthalate         | NS       | NS       | mg/kg | ND          | ND           |
| Dibenzo(a,h)anthracene      | 0.33     | 0.33     | mg/kg | ND          | ND           |
| Dibenzofuran                | 7        | 59       | mg/kg | ND          | ND           |
| Diethyl phthalate           | NS       | NS       | mg/kg | ND          | ND           |
| Dimethyl phthalate          | NS       | NS       | mg/kg | ND          | ND           |
| Fluoranthene                | 100      | 100      | mg/kg | 0.024 J     | 0.073 J      |
| Fluorene                    | 30       | 100      | mg/kg | ND          | ND           |
| Hexachlorobenzene           | 0.33     | 1.2      | mg/kg | ND          | ND           |
| Hexachlorobutadiene         | NS       | NS       | mg/kg | ND          | ND           |
| Hexachlorocyclopentadiene   | NS       | NS       | mg/kg | ND          | ND           |
| Hexachloroethane            | NS       | NS       | mg/kg | ND          | ND           |
| Indeno(1,2,3-cd)pyrene      | 0.5      | 0.5      | mg/kg | ND          | 0.03 J       |
| Isophorone                  | NS       | NS       | mg/kg | ND          | ND           |
| n-Nitrosodi-n-propylamine   | NS       | NS       | mg/kg | ND          | ND           |
| Naphthalene                 | 12       | 100      | mg/kg | ND          | ND           |

Table 3b. Semivolatile Organic Compounds in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID  | NY-UNRES | NY-RESRR | Units | SB-17 (0-2) | SB-17 (9-11) |
|-------------------|----------|----------|-------|-------------|--------------|
| SAMPLING DATE     |          |          |       | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID     |          |          |       | L2102822-11 | L2102822-12  |
|                   |          |          |       | Qual        | Qual         |
| NDPA/DPA          | NS       | NS       | mg/kg | ND          | ND           |
| Nitrobenzene      | NS       | NS       | mg/kg | ND          | ND           |
| p-Chloro-m-cresol | NS       | NS       | mg/kg | ND          | ND           |
| Pentachlorophenol | 0.8      | 6.7      | mg/kg | ND          | ND           |
| Phenanthrene      | 100      | 100      | mg/kg | ND          | 0.032 J      |
| Phenol            | 0.33     | 100      | mg/kg | ND          | ND           |
| Pyrene            | 100      | 100      | mg/kg | 0.022 J     | 0.065 J      |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds  
NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds  
NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup  
Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup  
Objectives

J = Estimated value

ND = Not detected

NS = No standard



Table 3c. Metals in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID    | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)  | SB-8 (6.5-8.5) | SB-9 (0-2)  | SB-9 (6.5-8.5) | SB-10 (0-2) | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) |
|---------------------|----------|----------|-------|-------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------------|
| SAMPLING DATE       |          |          |       | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021      | 1/18/2021   | 1/18/2021   | 1/18/2021   | 1/18/2021         |
| LAB SAMPLE ID       |          |          |       | L2102678-01 | L2102678-02    | L2102678-03 | L2102678-04    | L2102678-05 | L2102678-06 | L2102678-07 | L2102678-08       |
|                     |          |          |       | Qual        | Qual           | Qual        | Qual           | Qual        | Qual        | Qual        | Qual              |
| <b>Total Metals</b> |          |          |       |             |                |             |                |             |             |             |                   |
| Aluminum, Total     | NS       | NS       | mg/kg | 2570        | 84.5           | 2250        | 1750           | 1810        | 4050        | 4330        | 1410              |
| Antimony, Total     | NS       | NS       | mg/kg | 1.89 J      | 2.26 J         | 1.33 J      | 0.744 J        | 2.84 J      | 2.99 J      | 2.14 J      | 1.51 J            |
| Arsenic, Total      | 13       | 16       | mg/kg | 3.31        | 2.37           | 5.97        | 1.26           | <b>17.4</b> | 3.53        | 5.18        | 4.48              |
| Barium, Total       | 350      | 400      | mg/kg | 23.9        | 23.1           | 41.8        | 10.7           | 234         | 10.3        | 54.3        | 13.7              |
| Beryllium, Total    | 7.2      | 72       | mg/kg | 0.17 J      | ND             | 0.193 J     | 0.122 J        | 0.101 J     | 0.178 J     | 0.274 J     | 0.101 J           |
| Cadmium, Total      | 2.5      | 4.3      | mg/kg | 0.644 J     | 0.824 J        | 0.683 J     | 0.33 J         | 2.02        | 0.263 J     | 0.943       | 0.462 J           |
| Calcium, Total      | NS       | NS       | mg/kg | 1230        | 338            | 1470        | 652            | 89200       | 413         | 3200        | 798               |
| Chromium, Total     | NS       | NS       | mg/kg | 91.6        | 119            | 46.2        | 19.3           | 11.7        | 6.2         | 40          | 115               |
| Cobalt, Total       | NS       | NS       | mg/kg | 60.5        | 81             | 49          | 17.7           | 8.03        | 4.84        | 21.9        | 56.1              |
| Copper, Total       | 50       | 270      | mg/kg | 9.99        | ND             | 13          | 6.84           | 14.1        | 4.96        | 30.8        | 4.72              |
| Iron, Total         | NS       | NS       | mg/kg | 27400       | 36500          | 27400       | 12700          | 34400       | 9830        | 16300       | 19700             |
| Lead, Total         | 63       | 400      | mg/kg | 3.38 J      | ND             | 44.7        | 2.87 J         | <b>1420</b> | 6.17        | <b>222</b>  | 1.87 J            |
| Magnesium, Total    | NS       | NS       | mg/kg | 99600       | 140000         | 96200       | 25000          | 6050        | 1550        | 21400       | 118000            |
| Manganese, Total    | 1600     | 2000     | mg/kg | 543         | <b>1920</b>    | 854         | 239            | 179         | 104         | 277         | 651               |
| Mercury, Total      | 0.18     | 0.81     | mg/kg | ND          | ND             | ND          | ND             | <b>1.05</b> | ND          | 0.158       | ND                |
| Nickel, Total       | 30       | 310      | mg/kg | <b>1280</b> | <b>1620</b>    | <b>1050</b> | <b>454</b>     | <b>74.5</b> | 16.4        | <b>390</b>  | <b>1490</b>       |
| Potassium, Total    | NS       | NS       | mg/kg | 471         | ND             | 473         | 330            | 280         | 188 J       | 623         | 300               |
| Selenium, Total     | 3.9      | 180      | mg/kg | 0.233 J     | ND             | ND          | ND             | 0.884 J     | ND          | 0.232 J     | ND                |
| Silver, Total       | 2        | 180      | mg/kg | ND          | ND             | ND          | ND             | ND          | ND          | ND          | ND                |
| Sodium, Total       | NS       | NS       | mg/kg | 88.8 J      | 44 J           | 69.6 J      | 59.3 J         | 225         | 26.5 J      | 78.2 J      | 47.4 J            |
| Thallium, Total     | NS       | NS       | mg/kg | 1.12 J      | 3.75           | 1.49 J      | 0.433 J        | 0.47 J      | ND          | 0.463 J     | 1.01 J            |
| Vanadium, Total     | NS       | NS       | mg/kg | 13          | 3.13           | 13.9        | 9.07           | 11.1        | 9.38        | 20.9        | 5.85              |
| Zinc, Total         | 109      | 10000    | mg/kg | 25.8        | 10.1           | 42.7        | 16.1           | <b>1080</b> | 26.1        | <b>149</b>  | 16.3              |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil

Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use

Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3c. Metals in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID    | NY-UNRES | NY-RESRR | Units | SB-18 (0-2)  | SB-18 (20-22) | SB-14 (0-2)  | SB-14 (17.5-19.5) | SB-12 (0-2)  | SB-12 (6.5-8.5) | SB-15 (0-2) |
|---------------------|----------|----------|-------|--------------|---------------|--------------|-------------------|--------------|-----------------|-------------|
| SAMPLING DATE       |          |          |       | 1/18/2021    | 1/18/2021     | 1/19/2021    | 1/19/2021         | 1/19/2021    | 1/19/2021       | 1/19/2021   |
| LAB SAMPLE ID       |          |          |       | L2102678-11  | L2102678-12   | L2102822-01  | L2102822-02       | L2102822-03  | L2102822-04     | L2102822-05 |
|                     |          |          |       | Qual         | Qual          | Qual         | Qual              | Qual         | Qual            | Qual        |
| <b>Total Metals</b> |          |          |       |              |               |              |                   |              |                 |             |
| Aluminum, Total     | NS       | NS       | mg/kg | 7110         | 2970          | 7760         | 8790              | 5010         | 6520            | 3370        |
| Antimony, Total     | NS       | NS       | mg/kg | 1.79 J       | 1.15 J        | 1.14 J       | ND                | 0.405 J      | ND              | ND          |
| Arsenic, Total      | 13       | 16       | mg/kg | 8.42         | 7.5           | 11.2         | 3.3               | 6.24         | 4.59            | 3.34        |
| Barium, Total       | 350      | 400      | mg/kg | 115          | 24.4          | 81.6         | 77.6              | 83.8         | 21.7            | 47.7        |
| Beryllium, Total    | 7.2      | 72       | mg/kg | 0.416 J      | 0.212 J       | 0.342 J      | 0.284 J           | 0.164 J      | 0.219 J         | 0.101 J     |
| Cadmium, Total      | 2.5      | 4.3      | mg/kg | 0.918 J      | 0.517 J       | 0.844 J      | 0.542 J           | 0.829 J      | 0.362 J         | 0.709 J     |
| Calcium, Total      | NS       | NS       | mg/kg | 2970         | 3400          | 1580         | 1320              | 3420         | 648             | 12800       |
| Chromium, Total     | NS       | NS       | mg/kg | 39.3         | 52.7          | 39.5         | 16.9              | 33.9         | 16              | 136         |
| Cobalt, Total       | NS       | NS       | mg/kg | 24.9         | 36            | 30.4         | 9.41              | 21           | 9.94            | 48          |
| Copper, Total       | 50       | 270      | mg/kg | <b>74.3</b>  | 16.2          | <b>168</b>   | 17.5              | 44.6         | 6.58            | 10.8        |
| Iron, Total         | NS       | NS       | mg/kg | 20300        | 20700         | 22300        | 20900             | 19200        | 17900           | 27500       |
| Lead, Total         | 63       | 400      | mg/kg | <b>320</b>   | 15.2          | <b>156</b>   | 11                | <b>189</b>   | 7.47            | 31.8        |
| Magnesium, Total    | NS       | NS       | mg/kg | 14200        | 69700         | 16100        | 4710              | 22600        | 1990            | 114000      |
| Manganese, Total    | 1600     | 2000     | mg/kg | 432          | 428           | 624          | 521               | 402          | 368             | 1540        |
| Mercury, Total      | 0.18     | 0.81     | mg/kg | <b>0.206</b> | ND            | <b>0.232</b> | ND                | <b>0.204</b> | ND              | 0.064 J     |
| Nickel, Total       | 30       | 310      | mg/kg | <b>314</b>   | <b>790</b>    | <b>334</b>   | <b>32.4</b>       | <b>375</b>   | 29              | <b>937</b>  |
| Potassium, Total    | NS       | NS       | mg/kg | 719          | 1000          | 399          | 1400              | 641          | 266             | 518         |
| Selenium, Total     | 3.9      | 180      | mg/kg | ND           | 0.262 J       | 0.626 J      | ND                | 0.501 J      | ND              | 0.58 J      |
| Silver, Total       | 2        | 180      | mg/kg | ND           | ND            | ND           | ND                | ND           | ND              | ND          |
| Sodium, Total       | NS       | NS       | mg/kg | 65.8 J       | 141 J         | 57.1 J       | 98.5 J            | 69.1 J       | 35.2 J          | 62.5 J      |
| Thallium, Total     | NS       | NS       | mg/kg | 0.52 J       | 0.678 J       | ND           | ND                | ND           | ND              | ND          |
| Vanadium, Total     | NS       | NS       | mg/kg | 35.3         | 19.3          | 26.6         | 24.3              | 20.8         | 20.4            | 12.2        |
| Zinc, Total         | 109      | 10000    | mg/kg | <b>204</b>   | 39.4          | <b>129</b>   | 48.3              | <b>151</b>   | 24.8            | 40          |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3c. Metals in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID    | NY-UNRES | NY-RESRR | Units | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) | SB-17 (0-2) | SB-17 (9-11) |
|---------------------|----------|----------|-------|-------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| SAMPLING DATE       |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID       |          |          |       | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 | L2102822-11 | L2102822-12  |
|                     |          |          |       | Qual              | Qual        | Qual        | Qual        | Qual        | Qual        | Qual         |
| <b>Total Metals</b> |          |          |       |                   |             |             |             |             |             |              |
| Aluminum, Total     | NS       | NS       | mg/kg | 8310              | 10200       | 7670        | 7040        | 6880        | 7100        | 5580         |
| Antimony, Total     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          | ND          | 0.74 J       |
| Arsenic, Total      | 13       | 16       | mg/kg | 3.5               | 6.55        | 8.93        | 4.64        | 4.96        | 9.2         | 10.3         |
| Barium, Total       | 350      | 400      | mg/kg | 62.5              | 51.3        | 52.4        | 69          | 68.7        | 47          | 63           |
| Beryllium, Total    | 7.2      | 72       | mg/kg | 0.199 J           | 0.216 J     | 0.187 J     | 0.26 J      | 0.206 J     | 0.214 J     | 0.167 J      |
| Cadmium, Total      | 2.5      | 4.3      | mg/kg | 0.511 J           | 0.621 J     | 0.955       | 0.654 J     | 0.664 J     | 0.525 J     | 0.643 J      |
| Calcium, Total      | NS       | NS       | mg/kg | 2190              | 1470        | 2130        | 2520        | 4030        | 2570        | 7660         |
| Chromium, Total     | NS       | NS       | mg/kg | 20.4              | 37.4        | 82          | 52          | 47.1        | 22.9        | 21.1         |
| Cobalt, Total       | NS       | NS       | mg/kg | 9.68              | 19.9        | 48.4        | 16.1        | 18.2        | 9.82        | 7.66         |
| Copper, Total       | 50       | 270      | mg/kg | 18.6              | 26.4        | 43          | 39.4        | 26          | 28.4        | 57.2         |
| Iron, Total         | NS       | NS       | mg/kg | 20800             | 22500       | 31500       | 19800       | 21000       | 18000       | 15600        |
| Lead, Total         | 63       | 400      | mg/kg | 12.2              | 60.8        | 31.8        | 94.3        | 84.2        | 34.5        | 81.4         |
| Magnesium, Total    | NS       | NS       | mg/kg | 4980              | 7280        | 21200       | 7310        | 18400       | 3590        | 5360         |
| Manganese, Total    | 1600     | 2000     | mg/kg | 548               | 487         | 869         | 431         | 564         | 315         | 280          |
| Mercury, Total      | 0.18     | 0.81     | mg/kg | ND                | ND          | ND          | 0.882       | 0.312       | 0.056 J     | ND           |
| Nickel, Total       | 30       | 310      | mg/kg | 86.6              | 213         | 751         | 187         | 255         | 54.1        | 59.3         |
| Potassium, Total    | NS       | NS       | mg/kg | 1690              | 958         | 1780        | 765         | 1000        | 713         | 693          |
| Selenium, Total     | 3.9      | 180      | mg/kg | ND                | 0.348 J     | ND          | ND          | ND          | ND          | ND           |
| Silver, Total       | 2        | 180      | mg/kg | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Sodium, Total       | NS       | NS       | mg/kg | 128 J             | 59.3 J      | 116 J       | 74.7 J      | 117 J       | 88 J        | 92.1 J       |
| Thallium, Total     | NS       | NS       | mg/kg | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Vanadium, Total     | NS       | NS       | mg/kg | 24.9              | 30.2        | 32.7        | 23.2        | 23.9        | 24.2        | 21.4         |
| Zinc, Total         | 109      | 10000    | mg/kg | 51.8              | 79          | 88.9        | 84.7        | 73.9        | 46.2        | 75.4         |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil

Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use

Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3d. Pesticides, Herbicides, and Polychlorinated Biphenyls in Soil  
River North

Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID                       | NY-UNRES | NY-RESRR | Units | SB-8 (0-2)     | SB-8 (6.5-8.5) | SB-9 (0-2)     | SB-9 (6.5-8.5) | SB-10 (0-2)    | SB-10 (7-9) | SB-13 (0-2) | SB-13 (17.5-19.5) | SB-18 (0-2)    | SB-18 (20-22) | SB-14 (0-2)   |
|----------------------------------------|----------|----------|-------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|-------------------|----------------|---------------|---------------|
| SAMPLING DATE                          |          |          |       | 1/18/2021      | 1/18/2021      | 1/18/2021      | 1/18/2021      | 1/18/2021      | 1/18/2021   | 1/18/2021   | 1/18/2021         | 1/18/2021      | 1/18/2021     | 1/19/2021     |
| LAB SAMPLE ID                          |          |          |       | L2102678-01    | L2102678-02    | L2102678-03    | L2102678-04    | L2102678-05    | L2102678-06 | L2102678-07 | L2102678-08       | L2102678-11    | L2102678-12   | L2102822-01   |
|                                        |          |          |       | Qual           | Qual           | Qual           | Qual           | Qual           | Qual        | Qual        | Qual              | Qual           | Qual          | Qual          |
| <b>Chlorinated Herbicides by GC</b>    |          |          |       |                |                |                |                |                |             |             |                   |                |               |               |
| 2,4,5-T                                | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| 2,4,5-TP (Silvex)                      | 3.8      | 100      | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| 2,4-D                                  | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| <b>Polychlorinated Biphenyls by GC</b> |          |          |       |                |                |                |                |                |             |             |                   |                |               |               |
| Aroclor 1016                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1221                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1232                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1242                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1248                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1254                           | 0.1      | 1        | mg/kg | 0.0214 J       | ND             | ND             | ND             | ND             | ND          | 0.00913 J   | ND                | ND             | ND            | 0.0211 J      |
| Aroclor 1260                           | 0.1      | 1        | mg/kg | 0.0124 J       | ND             | ND             | ND             | 0.00834 J      | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1262                           | 0.1      | 1        | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Aroclor 1268                           | 0.1      | 1        | mg/kg | 0.00417 J      | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| PCBs, Total                            | 0.1      | 1        | mg/kg | 0.038 J        | ND             | ND             | ND             | 0.00834 J      | ND          | 0.00913 J   | ND                | ND             | ND            | 0.0211 J      |
| <b>Organochlorine Pesticides by GC</b> |          |          |       |                |                |                |                |                |             |             |                   |                |               |               |
| 4,4'-DDD                               | 0.0033   | 13       | mg/kg | <b>0.00338</b> | ND             | ND             | ND             | <b>0.0133</b>  | ND          | ND          | ND                | ND             | ND            | <b>0.0104</b> |
| 4,4'-DDE                               | 0.0033   | 8.9      | mg/kg | <b>0.0121</b>  | ND             | 0.00138 J      | ND             | <b>0.0436</b>  | ND          | ND          | ND                | <b>0.00615</b> | ND            | <b>0.03</b>   |
| 4,4'-DDT                               | 0.0033   | 7.9      | mg/kg | <b>0.0105</b>  | ND             | <b>0.00442</b> | ND             | <b>0.167</b>   | ND          | ND          | ND                | <b>0.00597</b> | ND            | <b>0.0216</b> |
| Aldrin                                 | 0.005    | 0.097    | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Alpha-BHC                              | 0.02     | 0.48     | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Beta-BHC                               | 0.036    | 0.36     | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Chlordane                              | NS       | NS       | mg/kg | 0.0844         | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| cis-Chlordane                          | 0.094    | 4.2      | mg/kg | 0.00597        | ND             | 0.00467        | ND             | 0.00559 J      | ND          | ND          | ND                | 0.00103 J      | ND            | 0.00168 J     |
| Delta-BHC                              | 0.04     | 100      | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Dieldrin                               | 0.005    | 0.2      | mg/kg | <b>0.00958</b> | ND             | ND             | ND             | <b>0.00748</b> | ND          | ND          | ND                | ND             | ND            | ND            |
| Endosulfan I                           | 2.4      | 24       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Endosulfan II                          | 2.4      | 24       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Endosulfan sulfate                     | 2.4      | 24       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Endrin                                 | 0.014    | 11       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Endrin aldehyde                        | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Endrin ketone                          | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Heptachlor                             | 0.042    | 2.1      | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Heptachlor epoxide                     | NS       | NS       | mg/kg | ND             | ND             | 0.00104 J      | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Lindane                                | 0.1      | 1.3      | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Methoxychlor                           | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| Toxaphene                              | NS       | NS       | mg/kg | ND             | ND             | ND             | ND             | ND             | ND          | ND          | ND                | ND             | ND            | ND            |
| trans-Chlordane                        | NS       | NS       | mg/kg | 0.00525        | ND             | 0.00432        | ND             | 0.00944 J      | ND          | ND          | ND                | ND             | ND            | 0.00434       |

Notes:

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3d. Pesticides, Herbicides, and Polychlorinated Biphenyls in Soil

River North

## Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID                       | NY-UNRES | NY-RESRR | Units | SB-14 (17.5-19.5) | SB-12 (0-2) | SB-12 (6.5-8.5) | SB-15 (0-2) | SB-15 (14.5-16.5) | SB-11 (0-2) | SB-11 (5-7) | SB-16 (0-2) | SB-16 (7-9) | SB-17 (0-2) | SB-17 (9-11) |
|----------------------------------------|----------|----------|-------|-------------------|-------------|-----------------|-------------|-------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| SAMPLING DATE                          |          |          |       | 1/19/2021         | 1/19/2021   | 1/19/2021       | 1/19/2021   | 1/19/2021         | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021   | 1/19/2021    |
| LAB SAMPLE ID                          |          |          |       | L2102822-02       | L2102822-03 | L2102822-04     | L2102822-05 | L2102822-06       | L2102822-07 | L2102822-08 | L2102822-09 | L2102822-10 | L2102822-11 | L2102822-12  |
|                                        |          |          |       | Qual              | Qual        | Qual            | Qual        | Qual              | Qual        | Qual        | Qual        | Qual        | Qual        | Qual         |
| <b>Chlorinated Herbicides by GC</b>    |          |          |       |                   |             |                 |             |                   |             |             |             |             |             |              |
| 2,4,5-T                                | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| 2,4,5-TP (Silvex)                      | 3.8      | 100      | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| 2,4-D                                  | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| <b>Polychlorinated Biphenyls by GC</b> |          |          |       |                   |             |                 |             |                   |             |             |             |             |             |              |
| Aroclor 1016                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1221                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1232                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1242                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1248                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1254                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | 0.0142 J    | 0.00877 J   | 0.00705 J    |
| Aroclor 1260                           | 0.1      | 1        | mg/kg | ND                | 0.0658      | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1262                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Aroclor 1268                           | 0.1      | 1        | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| PCBs, Total                            | 0.1      | 1        | mg/kg | ND                | 0.0658      | ND              | ND          | ND                | ND          | ND          | ND          | 0.0142 J    | 0.00877 J   | 0.00705 J    |
| <b>Organochlorine Pesticides by GC</b> |          |          |       |                   |             |                 |             |                   |             |             |             |             |             |              |
| 4,4'-DDD                               | 0.0033   | 13       | mg/kg | ND                | 0.00585     | ND              | ND          | ND                | ND          | ND          | 0.00226     | ND          | ND          | 0.00111 J    |
| 4,4'-DDE                               | 0.0033   | 8.9      | mg/kg | ND                | 0.00324     | ND              | 0.00193     | ND                | 0.001 J     | ND          | 0.00279     | 0.00308     | 0.00612     | 0.00334      |
| 4,4'-DDT                               | 0.0033   | 7.9      | mg/kg | ND                | 0.00844     | ND              | 0.00379     | ND                | 0.00226 J   | ND          | 0.00377     | 0.00616     | 0.00685     | 0.00345      |
| Aldrin                                 | 0.005    | 0.097    | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Alpha-BHC                              | 0.02     | 0.48     | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Beta-BHC                               | 0.036    | 0.36     | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Chlordane                              | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | 0.0235      | ND          | 0.096       | ND           |
| cis-Chlordane                          | 0.094    | 4.2      | mg/kg | ND                | 0.00144 J   | ND              | 0.0464      | ND                | ND          | ND          | 0.0028      | 0.0129      | 0.0102      | 0.00803      |
| Delta-BHC                              | 0.04     | 100      | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Dieldrin                               | 0.005    | 0.2      | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | 0.00232     | ND          | ND          | 0.001 J      |
| Endosulfan I                           | 2.4      | 24       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Endosulfan II                          | 2.4      | 24       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Endosulfan sulfate                     | 2.4      | 24       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Endrin                                 | 0.014    | 11       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Endrin aldehyde                        | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Endrin ketone                          | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Heptachlor                             | 0.042    | 2.1      | mg/kg | ND                | ND          | ND              | 0.00537     | ND                | ND          | ND          | ND          | 0.00218     | ND          | ND           |
| Heptachlor epoxide                     | NS       | NS       | mg/kg | ND                | ND          | ND              | 0.00388     | ND                | ND          | ND          | ND          | 0.003 J     | 0.00289 J   | 0.00107 J    |
| Lindane                                | 0.1      | 1.3      | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Methoxychlor                           | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| Toxaphene                              | NS       | NS       | mg/kg | ND                | ND          | ND              | ND          | ND                | ND          | ND          | ND          | ND          | ND          | ND           |
| trans-Chlordane                        | NS       | NS       | mg/kg | ND                | 0.00171 J   | ND              | 0.0673      | ND                | ND          | ND          | 0.00204 J   | 0.021       | 0.0108      | 0.00973      |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3e. Per- and Polyfluoroalkyl Substances in Soil  
River North  
Phase II Environmental Site Investigation Report

| CLIENT SAMPLE ID                                          | NY-UNRES | NY-RESRR | Units | SB-10 (0-2) | SB-14 (0-2) |
|-----------------------------------------------------------|----------|----------|-------|-------------|-------------|
| SAMPLING DATE                                             |          |          |       | 1/18/2021   | 1/19/2021   |
| LAB SAMPLE ID                                             |          |          |       | L2102678-05 | L2102822-01 |
|                                                           |          |          |       | Qual        | Qual        |
| Perfluorinated Alkyl Acids by Isotope Dilution            |          |          |       |             |             |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)         | NS       | NS       | ng/g  | ND          | ND          |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)         | NS       | NS       | ng/g  | ND          | ND          |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | NS       | NS       | ng/g  | 0.0095 J    | 0.144 JF    |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorobutanesulfonic Acid (PFBS)                       | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorobutanoic Acid (PFBA)                             | NS       | NS       | ng/g  | 0.0052 J    | ND          |
| Perfluorodecanesulfonic Acid (PFDS)                       | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorodecanoic Acid (PFDA)                             | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorododecanoic Acid (PFDoA)                          | NS       | NS       | ng/g  | ND          | ND          |
| Perfluoroheptanesulfonic Acid (PFHpS)                     | NS       | NS       | ng/g  | ND          | ND          |
| Perfluoroheptanoic Acid (PFHpA)                           | NS       | NS       | ng/g  | 0.005 J     | ND          |
| Perfluorohexanesulfonic Acid (PFHxS)                      | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorohexanoic Acid (PFHxA)                            | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorononanoic Acid (PFNA)                             | NS       | NS       | ng/g  | 0.157 J     | 0.337       |
| Perfluorooctanesulfonamide (FOSA)                         | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorooctanesulfonic Acid (PFOS)                       | 0.88     | 44       | ng/g  | 0.928       | 0.602       |
| Perfluorooctanoic Acid (PFOA)                             | 0.66     | 33       | ng/g  | 2.39        | 1.56        |
| Perfluoropentanoic Acid (PFPeA)                           | NS       | NS       | ng/g  | 0.0072 J    | ND          |
| Perfluorotetradecanoic Acid (PFTA)                        | NS       | NS       | ng/g  | ND          | ND          |
| Perfluorotridecanoic Acid (PFTrDA)                        | NS       | NS       | ng/g  | ND          | ND          |
| Perfluoroundecanoic Acid (PFUnA)                          | NS       | NS       | ng/g  | ND          | ND          |
| PFOA/PFOS, Total                                          | NS       | NS       | ng/g  | 3.32        | 2.16        |

**Notes:**

**Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs**

**Bold and shaded orange value indicates concentration exceeds NY-RESRR SCOs**

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-RESRR = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives

The NY-UNRES and NY-RESRR for all PFAS analytes are proposed SCOs per NYSDEC's Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs, updated October 2020

J = Estimated value

F = The ratio of quantifier ion response to qualifier ion response falls outside the laboratory criteria

ND = Not detected

NS = No standard

# Appendix 1

## Laboratory Deliverables



## ANALYTICAL REPORT

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Lab Number:     | L2102678                                                                                 |
| Client:         | Tenen Environmental, LLC<br>121 West 27th Street<br>Suite 702<br>New York City, NY 10001 |
| ATTN:           | Alana Carroll                                                                            |
| Phone:          | (646) 606-2332                                                                           |
| Project Name:   | LIBERTY TOWERS                                                                           |
| Project Number: | LIBERTY TOWERS                                                                           |
| Report Date:    | 02/01/21                                                                                 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Alpha<br>Sample ID | Client ID         | Matrix                  | Sample<br>Location | Collection<br>Date/Time | Receive Date |
|--------------------|-------------------|-------------------------|--------------------|-------------------------|--------------|
| L2102678-01        | SB-8 (0-2)        | SOIL                    | STATEN ISLAND      | 01/18/21 08:30          | 01/18/21     |
| L2102678-02        | SB-8 (6.5-8.5)    | SOIL                    | STATEN ISLAND      | 01/18/21 09:00          | 01/18/21     |
| L2102678-03        | SB-9 (0-2)        | SOIL                    | STATEN ISLAND      | 01/18/21 09:40          | 01/18/21     |
| L2102678-04        | SB-9 (6.5-8.5)    | SOIL                    | STATEN ISLAND      | 01/18/21 10:00          | 01/18/21     |
| L2102678-05        | SB-10 (0-2)       | SOIL                    | STATEN ISLAND      | 01/18/21 10:10          | 01/18/21     |
| L2102678-06        | SB-10 (7-9)       | SOIL                    | STATEN ISLAND      | 01/18/21 10:40          | 01/18/21     |
| L2102678-07        | SB-13 (0-2)       | SOIL                    | STATEN ISLAND      | 01/18/21 11:30          | 01/18/21     |
| L2102678-08        | SB-13 (17.5-19.5) | SOIL                    | STATEN ISLAND      | 01/18/21 12:00          | 01/18/21     |
| L2102678-09        | FIELD BLANK       | FIELD BLANK             | STATEN ISLAND      | 01/18/21 08:50          | 01/18/21     |
| L2102678-10        | TRIP BLANK        | TRIP BLANK<br>(AQUEOUS) | STATEN ISLAND      | 01/18/21 00:00          | 01/18/21     |
| L2102678-11        | SB-18 (0-2)       | SOIL                    | STATEN ISLAND      | 01/18/21 13:00          | 01/18/21     |
| L2102678-12        | SB-18 (20-22)     | SOIL                    | STATEN ISLAND      | 01/18/21 13:20          | 01/18/21     |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

### Case Narrative (continued)

#### Report Submission

February 01, 2021: This final report includes the results of all requested analyses.

January 25, 2021: This is a preliminary report.

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

#### Semivolatile Organics

L2102678-05 and -07: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Pesticides

L2102678-05 and -07: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Total Metals

L2102678-01 through -08, -11, and -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature:

*Tiffani Morrissey* - Tiffani Morrissey

Title: Technical Director/Representative

Date: 02/01/21

# ORGANICS

# VOLATILES

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-01  
 Client ID: SB-8 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:30  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 21:38  
 Analyst: NLK  
 Percent Solids: 89%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.4  | 2.5  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.25 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.54 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.3  | 0.76 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.28 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.54 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.3  | 0.27 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.59 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.3  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.63 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.36 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.49 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-01

Date Collected: 01/18/21 08:30

Client ID: SB-8 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 0.54 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.61 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.26 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 0.99 | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.2  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 4.9  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.4  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.18 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.3  | 0.18 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.3  | 0.71 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.3  | 1.2  | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-01

Date Collected: 01/18/21 08:30

Client ID: SB-8 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 1.1 | 0.18 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.35 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 87  | 38.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.19 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.42 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.4 | 1.5  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 117        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 106        |           | 70-130              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 22:04  
 Analyst: NLK  
 Percent Solids: 88%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.4  | 2.5  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.25 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.54 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.3  | 0.75 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.28 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.54 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.3  | 0.27 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.59 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.3  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.63 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.36 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.49 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 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 | 0.54 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.61 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.26 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 0.99 | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.2  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 4.9  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.4  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.18 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.3  | 0.18 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.3  | 0.70 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.3  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-02

Date Collected: 01/18/21 09:00

Client ID: SB-8 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 1.1 | 0.18 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.35 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 87  | 38.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.19 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.42 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.4 | 1.5  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 117        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-03  
 Client ID: SB-9 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 22:30  
 Analyst: NLK  
 Percent Solids: 87%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.1  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.24 | 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  | 0.95 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.59 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.34 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.46 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.5  | 0.14 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-03  
 Client ID: SB-9 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:40  
 Date Received: 01/18/21  
 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  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.57 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.30 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.30 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0  | 0.18 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.94 | 1               |
| Acetone                                             | ND     |           | ug/kg | 10   | 4.9  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.6  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 10   | 2.3  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.2  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.21 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.21 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.51 | 0.14 | 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  | 0.66 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.1  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-03

Date Collected: 01/18/21 09:40

Client ID: SB-9 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 0.17 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.0 | 0.33 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.0 | 0.28 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.0 | 0.20 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.0 | 0.34 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 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 | 118        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-04  
 Client ID: SB-9 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 22:56  
 Analyst: NLK  
 Percent Solids: 84%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.0  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.23 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.12 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.50 | 0.20 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.0  | 0.70 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.26 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.50 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.0  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.55 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.0  | 0.94 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.58 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.34 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.46 | 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: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-04  
 Client ID: SB-9 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                                     | ND     |           | ug/kg | 0.50 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.56 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0  | 0.18 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.92 | 1               |
| Acetone                                             | ND     |           | ug/kg | 10   | 4.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.6  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 10   | 2.2  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.2  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.21 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.0  | 0.17 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.0  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.0  | 0.17 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.0  | 0.65 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.0  | 1.2  | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-04**Date Collected:** 01/18/21 10:00**Client ID:** SB-9 (6.5-8.5)**Date Received:** 01/18/21**Sample Location:** STATEN ISLAND**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 | 0.17 | 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 | 0.34 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 80  | 35.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.0 | 0.18 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.0 | 0.39 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.0 | 0.19 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.0 | 0.34 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.0 | 1.4  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 120        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05  
 Client ID: SB-10 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:10  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 23:22  
 Analyst: NLK  
 Percent Solids: 84%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.2  | 2.4  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 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  | 0.28 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.52 | 0.20 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.52 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.1  | 0.72 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.52 | 0.17 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.52 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.52 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.52 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.52 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.1  | 0.26 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.52 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.52 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.56 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.1  | 0.97 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.1  | 0.60 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.35 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.1  | 0.47 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.25 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.14 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-05  
 Client ID: SB-10 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:10  
 Date Received: 01/18/21  
 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 | 0.52 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1  | 0.15 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1  | 0.15 | 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                                          | ND     |           | ug/kg | 2.1  | 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 | 2.1  | 0.25 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.95 | 1               |
| Acetone                                             | ND     |           | ug/kg | 10   | 5.0  | 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 | 2.1  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.1  | 0.21 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.1  | 0.21 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.1  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.52 | 0.14 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.1  | 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 | 2.1  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.1  | 0.20 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.1  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.1  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.1  | 0.18 | 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: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-05

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 2.1 | 0.33 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.28 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.1 | 0.20 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.1 | 0.35 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 83  | 36.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.1 | 0.18 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.1 | 0.40 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.1 | 0.20 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.1 | 0.35 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.2 | 1.5  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 123        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-06  
 Client ID: SB-10 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 23:49  
 Analyst: NLK  
 Percent Solids: 92%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.2  | 2.8  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.33 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.62 | 0.24 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.62 | 0.16 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.9  | 0.86 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.62 | 0.21 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.62 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.62 | 0.19 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.62 | 0.19 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.62 | 0.20 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.9  | 0.30 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.62 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.62 | 0.20 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.67 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.9  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.5  | 0.72 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.41 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.5  | 0.56 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.29 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.8  | 0.17 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-06  
 Client ID: SB-10 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:40  
 Date Received: 01/18/21  
 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 | 0.62 | 0.17 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.5  | 0.18 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.5  | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.5  | 0.21 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.5  | 0.25 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.5  | 0.69 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.36 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.36 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.22 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.5  | 0.29 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.24 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.9  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.6  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.7  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.6  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.5  | 0.16 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.5  | 0.25 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.5  | 0.25 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.5  | 0.21 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.62 | 0.16 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.5  | 0.18 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.21 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.5  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.5  | 0.24 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.5  | 0.13 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.7  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.9  | 0.21 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.9  | 0.80 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.9  | 1.4  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-06

Date Collected: 01/18/21 10:40

Client ID: SB-10 (7-9)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 1.2 | 0.21 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.5 | 0.40 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.5 | 0.34 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.5 | 0.24 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.5 | 0.41 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 99  | 43.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.5 | 0.22 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.5 | 0.47 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.5 | 0.24 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.5 | 0.42 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 6.2 | 1.8  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 123        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-07  
 Client ID: SB-13 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 11:30  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 00:15  
 Analyst: NLK  
 Percent Solids: 91%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.0  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.23 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.12 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.50 | 0.20 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.0  | 0.70 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.26 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.50 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.0  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.55 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.0  | 0.94 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.58 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.34 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.46 | 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: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-07

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                                     | ND     |           | ug/kg | 0.50 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.56 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0  | 0.18 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.92 | 1               |
| Acetone                                             | 21     |           | ug/kg | 10   | 4.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.6  | 1               |
| 2-Butanone                                          | 2.3    | J         | ug/kg | 10   | 2.2  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.2  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.21 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.0  | 0.17 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.0  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.0  | 0.17 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.0  | 0.65 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.0  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-07

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 0.17 | 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 | 0.34 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 80  | 35.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.0 | 0.18 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.0 | 0.39 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.0 | 0.19 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.0 | 0.34 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.0 | 1.4  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 122        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 00:41  
 Analyst: NLK  
 Percent Solids: 92%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.0  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.23 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.13 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.50 | 0.20 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.0  | 0.70 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.26 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.50 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.0  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.55 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.0  | 0.94 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.59 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.34 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.46 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.5  | 0.14 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                                     | ND     |           | ug/kg | 0.50 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.57 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0  | 0.18 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.92 | 1               |
| Acetone                                             | ND     |           | ug/kg | 10   | 4.9  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.6  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 10   | 2.2  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.2  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.21 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.0  | 0.17 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.0  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.0  | 0.17 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.0  | 0.66 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.0  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-08

Date Collected: 01/18/21 12:00

Client ID: SB-13 (17.5-19.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 0.17 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.0 | 0.32 | 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 | 81  | 36.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.0 | 0.18 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.0 | 0.39 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.0 | 0.19 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.0 | 0.34 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.0 | 1.4  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 122        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 108        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 1,8260C  
 Analytical Date: 01/20/21 12:49  
 Analyst: PD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,3-Dichloropropene, Total                   | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,1-Dichloropropene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Xylenes, Total                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethene, Total                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dibromomethane                               | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 1,2,3-Trichloropropane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Acrylonitrile                                | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0  | 1.9  | 1               |
| Vinyl acetate                                | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 2,2-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,3-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1,1,2-Tetrachloroethane                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromobenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| n-Butylbenzene                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| sec-Butylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| tert-Butylbenzene                            | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Hexachlorobutadiene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Naphthalene                                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                              | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| p-Diethylbenzene                             | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| p-Ethyltoluene                               | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| 1,2,4,5-Tetramethylbenzene                   | ND     |           | ug/l  | 2.0 | 0.54 | 1               |
| Ethyl ether                                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| trans-1,4-Dichloro-2-butene                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 96         |           | 70-130              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-10  
 Client ID: TRIP BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 00:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Trip Blank (Aqueous)  
 Analytical Method: 1,8260C  
 Analytical Date: 01/20/21 13:12  
 Analyst: LAC

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,3-Dichloropropene, Total                   | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,1-Dichloropropene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-10

Date Collected: 01/18/21 00:00

Client ID: TRIP BLANK

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Xylenes, Total                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethene, Total                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dibromomethane                               | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 1,2,3-Trichloropropane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Acrylonitrile                                | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0  | 1.9  | 1               |
| Vinyl acetate                                | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 2,2-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,3-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1,1,2-Tetrachloroethane                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromobenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| n-Butylbenzene                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| sec-Butylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| tert-Butylbenzene                            | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Hexachlorobutadiene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Naphthalene                                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-10

Date Collected: 01/18/21 00:00

Client ID: TRIP BLANK

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                              | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| p-Diethylbenzene                             | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| p-Ethyltoluene                               | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| 1,2,4,5-Tetramethylbenzene                   | ND     |           | ug/l  | 2.0 | 0.54 | 1               |
| Ethyl ether                                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| trans-1,4-Dichloro-2-butene                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 95         |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-11  
 Client ID: SB-18 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 01:07  
 Analyst: NLK  
 Percent Solids: 81%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.6  | 2.6  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| Tetrachloroethene                                   | 0.45   | J         | ug/kg | 0.56 | 0.22 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.56 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.5  | 0.78 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.56 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.56 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.5  | 0.28 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.19 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.56 | 0.19 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.61 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.5  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.65 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.38 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.51 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.27 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.7  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 0.56 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.17 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.63 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.33 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.33 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.20 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.27 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.22 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 1.0  | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.4  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 5.1  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.5  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.4  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.23 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.23 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.15 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.4  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.5  | 0.19 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.5  | 0.73 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.5  | 1.3  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 1.1 | 0.19 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.22 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.38 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 90  | 39.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.20 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.43 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.38 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.6 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 126        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 108        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-12  
 Client ID: SB-18 (20-22)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:20  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 01:33  
 Analyst: NLK  
 Percent Solids: 92%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.6  | 2.6  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| Tetrachloroethene                                   | 0.38   | J         | ug/kg | 0.56 | 0.22 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.56 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.5  | 0.78 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.56 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.56 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.5  | 0.27 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.61 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.5  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.65 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.37 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.50 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.7  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-12  
 Client ID: SB-18 (20-22)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:20  
 Date Received: 01/18/21  
 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 | 0.56 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.62 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.20 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.26 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.22 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 1.0  | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.4  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 5.1  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.5  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.4  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.23 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.15 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.4  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.5  | 0.19 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.5  | 0.73 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.5  | 1.3  | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-12

Date Collected: 01/18/21 13:20

Client ID: SB-18 (20-22)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

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 | 1.1 | 0.19 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.22 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 89  | 39.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.20 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.43 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.38 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.6 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 127        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 102        |           | 70-130              |
| Dibromofluoromethane  | 110        |           | 70-130              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/20/21 10:08  
Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1457050-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total                                                           | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,1-Dichloropropene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
 Analytical Date: 01/20/21 10:08  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1457050-5 |        |           |       |     |      |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| Xylenes, Total                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Dibromomethane                                                                       | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2,3-Trichloropropane                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Acrylonitrile                                                                        | ND     |           | ug/l  | 5.0 | 1.5  |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| Vinyl acetate                                                                        | ND     |           | ug/l  | 5.0 | 1.0  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 2,2-Dichloropropane                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,3-Dichloropropane                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Bromobenzene                                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Butylbenzene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/20/21 10:08  
Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1457050-5 |        |           |       |     |      |
| o-Chlorotoluene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Chlorotoluene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Hexachlorobutadiene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,4-Dioxane                                                                          | ND     |           | ug/l  | 250 | 61.  |
| p-Diethylbenzene                                                                     | ND     |           | ug/l  | 2.0 | 0.70 |
| p-Ethyltoluene                                                                       | ND     |           | ug/l  | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene                                                           | ND     |           | ug/l  | 2.0 | 0.54 |
| Ethyl ether                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene                                                          | ND     |           | ug/l  | 2.5 | 0.70 |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92        |           | 70-130              |
| Toluene-d8            | 101       |           | 70-130              |
| 4-Bromofluorobenzene  | 100       |           | 70-130              |
| Dibromofluoromethane  | 95        |           | 70-130              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/21/21 18:21  
Analyst: MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1457655-5 |        |           |       |      |      |
| Methylene chloride                                                                         | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                         | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                                 | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                       | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                        | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                       | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                      | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                          | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                              | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                     | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                         | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                      | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                       | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                  | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                    | ND     |           | ug/kg | 0.50 | 0.16 |
| 1,3-Dichloropropene, Total                                                                 | ND     |           | ug/kg | 0.50 | 0.16 |
| 1,1-Dichloropropene                                                                        | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                  | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,2,2-Tetrachloroethane                                                                  | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                    | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                    | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                               | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                              | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                               | 0.62   | J         | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                             | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                               | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                         | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                   | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                            | ND     |           | ug/kg | 0.50 | 0.14 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/21/21 18:21  
Analyst: MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1457655-5 |        |           |       |      |      |
| 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:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8260C  
**Analytical Date:** 01/21/21 18:21  
**Analyst:** MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1457655-5 |        |           |       |     |      |
| 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 | 109       |           | 70-130              |
| Toluene-d8            | 101       |           | 70-130              |
| 4-Bromofluorobenzene  | 100       |           | 70-130              |
| Dibromofluoromethane  | 102       |           | 70-130              |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1457050-3 WG1457050-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 93               |      | 94                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane                                                                                      | 93               |      | 94                |      | 70-130              | 1   |      | 20            |
| Chloroform                                                                                              | 91               |      | 93                |      | 70-130              | 2   |      | 20            |
| Carbon tetrachloride                                                                                    | 84               |      | 86                |      | 63-132              | 2   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 93               |      | 93                |      | 70-130              | 0   |      | 20            |
| Dibromochloromethane                                                                                    | 95               |      | 96                |      | 63-130              | 1   |      | 20            |
| 1,1,2-Trichloroethane                                                                                   | 95               |      | 97                |      | 70-130              | 2   |      | 20            |
| Tetrachloroethene                                                                                       | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| Chlorobenzene                                                                                           | 96               |      | 97                |      | 75-130              | 1   |      | 20            |
| Trichlorofluoromethane                                                                                  | 86               |      | 86                |      | 62-150              | 0   |      | 20            |
| 1,2-Dichloroethane                                                                                      | 89               |      | 91                |      | 70-130              | 2   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 92               |      | 93                |      | 67-130              | 1   |      | 20            |
| Bromodichloromethane                                                                                    | 92               |      | 91                |      | 67-130              | 1   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 97               |      | 97                |      | 70-130              | 0   |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 93               |      | 92                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloropropene                                                                                     | 93               |      | 93                |      | 70-130              | 0   |      | 20            |
| Bromoform                                                                                               | 92               |      | 94                |      | 54-136              | 2   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 96               |      | 97                |      | 67-130              | 1   |      | 20            |
| Benzene                                                                                                 | 94               |      | 95                |      | 70-130              | 1   |      | 20            |
| Toluene                                                                                                 | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| Ethylbenzene                                                                                            | 96               |      | 96                |      | 70-130              | 0   |      | 20            |
| Chloromethane                                                                                           | 65               |      | 68                |      | 64-130              | 5   |      | 20            |
| Bromomethane                                                                                            | 77               |      | 79                |      | 39-139              | 3   |      | 20            |



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1457050-3 WG1457050-4 |                  |      |                   |      |                     |     |      |               |
| Vinyl chloride                                                                                          | 79               |      | 81                |      | 55-140              | 3   |      | 20            |
| Chloroethane                                                                                            | 88               |      | 89                |      | 55-138              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                      | 89               |      | 90                |      | 61-145              | 1   |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 92               |      | 93                |      | 70-130              | 1   |      | 20            |
| Trichloroethene                                                                                         | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 98               |      | 97                |      | 70-130              | 1   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 99               |      | 98                |      | 70-130              | 1   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 98               |      | 97                |      | 70-130              | 1   |      | 20            |
| Methyl tert butyl ether                                                                                 | 90               |      | 91                |      | 63-130              | 1   |      | 20            |
| p/m-Xylene                                                                                              | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| o-Xylene                                                                                                | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 93               |      | 95                |      | 70-130              | 2   |      | 20            |
| Dibromomethane                                                                                          | 90               |      | 90                |      | 70-130              | 0   |      | 20            |
| 1,2,3-Trichloropropane                                                                                  | 97               |      | 98                |      | 64-130              | 1   |      | 20            |
| Acrylonitrile                                                                                           | 87               |      | 86                |      | 70-130              | 1   |      | 20            |
| Styrene                                                                                                 | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                                 | 80               |      | 80                |      | 36-147              | 0   |      | 20            |
| Acetone                                                                                                 | 100              |      | 91                |      | 58-148              | 9   |      | 20            |
| Carbon disulfide                                                                                        | 92               |      | 89                |      | 51-130              | 3   |      | 20            |
| 2-Butanone                                                                                              | 97               |      | 96                |      | 63-138              | 1   |      | 20            |
| Vinyl acetate                                                                                           | 91               |      | 89                |      | 70-130              | 2   |      | 20            |
| 4-Methyl-2-pentanone                                                                                    | 88               |      | 88                |      | 59-130              | 0   |      | 20            |
| 2-Hexanone                                                                                              | 88               |      | 88                |      | 57-130              | 0   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1457050-3 WG1457050-4 |                  |      |                   |      |                     |     |      |               |
| Bromochloromethane                                                                                      | 100              |      | 99                |      | 70-130              | 1   |      | 20            |
| 2,2-Dichloropropane                                                                                     | 97               |      | 98                |      | 63-133              | 1   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 96               |      | 96                |      | 70-130              | 0   |      | 20            |
| 1,3-Dichloropropane                                                                                     | 96               |      | 97                |      | 70-130              | 1   |      | 20            |
| 1,1,1,2-Tetrachloroethane                                                                               | 93               |      | 95                |      | 64-130              | 2   |      | 20            |
| Bromobenzene                                                                                            | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| n-Butylbenzene                                                                                          | 99               |      | 99                |      | 53-136              | 0   |      | 20            |
| sec-Butylbenzene                                                                                        | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| tert-Butylbenzene                                                                                       | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| o-Chlorotoluene                                                                                         | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| p-Chlorotoluene                                                                                         | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 82               |      | 88                |      | 41-144              | 7   |      | 20            |
| Hexachlorobutadiene                                                                                     | 98               |      | 100               |      | 63-130              | 2   |      | 20            |
| Isopropylbenzene                                                                                        | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| p-Isopropyltoluene                                                                                      | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Naphthalene                                                                                             | 86               |      | 93                |      | 70-130              | 8   |      | 20            |
| n-Propylbenzene                                                                                         | 100              |      | 100               |      | 69-130              | 0   |      | 20            |
| 1,2,3-Trichlorobenzene                                                                                  | 86               |      | 92                |      | 70-130              | 7   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                                  | 92               |      | 93                |      | 70-130              | 1   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                                  | 100              |      | 100               |      | 64-130              | 0   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                                  | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,4-Dioxane                                                                                             | 118              |      | 124               |      | 56-162              | 5   |      | 20            |
| p-Diethylbenzene                                                                                        | 100              |      | 100               |      | 70-130              | 0   |      | 20            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1457050-3 WG1457050-4 |                  |      |                   |      |                     |     |      |               |
| p-Ethyltoluene                                                                                          | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2,4,5-Tetramethylbenzene                                                                              | 100              |      | 99                |      | 70-130              | 1   |      | 20            |
| Ethyl ether                                                                                             | 90               |      | 90                |      | 59-134              | 0   |      | 20            |
| trans-1,4-Dichloro-2-butene                                                                             | 95               |      | 97                |      | 70-130              | 2   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 93               |      | 93                |      | 70-130                 |
| Toluene-d8            | 102              |      | 102               |      | 70-130                 |
| 4-Bromofluorobenzene  | 102              |      | 101               |      | 70-130                 |
| Dibromofluoromethane  | 97               |      | 96                |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1457655-3 WG1457655-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                            | 94               |      | 86                |      | 70-130              | 9   |      | 30            |
| 1,1-Dichloroethane                                                                                            | 90               |      | 82                |      | 70-130              | 9   |      | 30            |
| Chloroform                                                                                                    | 100              |      | 91                |      | 70-130              | 9   |      | 30            |
| Carbon tetrachloride                                                                                          | 107              |      | 97                |      | 70-130              | 10  |      | 30            |
| 1,2-Dichloropropane                                                                                           | 86               |      | 79                |      | 70-130              | 8   |      | 30            |
| Dibromochloromethane                                                                                          | 92               |      | 88                |      | 70-130              | 4   |      | 30            |
| 1,1,2-Trichloroethane                                                                                         | 96               |      | 92                |      | 70-130              | 4   |      | 30            |
| Tetrachloroethene                                                                                             | 101              |      | 92                |      | 70-130              | 9   |      | 30            |
| Chlorobenzene                                                                                                 | 98               |      | 89                |      | 70-130              | 10  |      | 30            |
| Trichlorofluoromethane                                                                                        | 113              |      | 102               |      | 70-139              | 10  |      | 30            |
| 1,2-Dichloroethane                                                                                            | 96               |      | 91                |      | 70-130              | 5   |      | 30            |
| 1,1,1-Trichloroethane                                                                                         | 104              |      | 94                |      | 70-130              | 10  |      | 30            |
| Bromodichloromethane                                                                                          | 99               |      | 93                |      | 70-130              | 6   |      | 30            |
| trans-1,3-Dichloropropene                                                                                     | 105              |      | 101               |      | 70-130              | 4   |      | 30            |
| cis-1,3-Dichloropropene                                                                                       | 98               |      | 93                |      | 70-130              | 5   |      | 30            |
| 1,1-Dichloropropene                                                                                           | 100              |      | 91                |      | 70-130              | 9   |      | 30            |
| Bromoform                                                                                                     | 101              |      | 97                |      | 70-130              | 4   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                     | 88               |      | 86                |      | 70-130              | 2   |      | 30            |
| Benzene                                                                                                       | 100              |      | 91                |      | 70-130              | 9   |      | 30            |
| Toluene                                                                                                       | 95               |      | 87                |      | 70-130              | 9   |      | 30            |
| Ethylbenzene                                                                                                  | 101              |      | 91                |      | 70-130              | 10  |      | 30            |
| Chloromethane                                                                                                 | 82               |      | 71                |      | 52-130              | 14  |      | 30            |
| Bromomethane                                                                                                  | 102              |      | 94                |      | 57-147              | 8   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1457655-3 WG1457655-4 |                  |      |                   |      |                     |     |      |               |
| Vinyl chloride                                                                                                | 94               |      | 88                |      | 67-130              | 7   |      | 30            |
| Chloroethane                                                                                                  | 105              |      | 93                |      | 50-151              | 12  |      | 30            |
| 1,1-Dichloroethene                                                                                            | 94               |      | 84                |      | 65-135              | 11  |      | 30            |
| trans-1,2-Dichloroethene                                                                                      | 98               |      | 88                |      | 70-130              | 11  |      | 30            |
| Trichloroethene                                                                                               | 95               |      | 86                |      | 70-130              | 10  |      | 30            |
| 1,2-Dichlorobenzene                                                                                           | 90               |      | 83                |      | 70-130              | 8   |      | 30            |
| 1,3-Dichlorobenzene                                                                                           | 93               |      | 85                |      | 70-130              | 9   |      | 30            |
| 1,4-Dichlorobenzene                                                                                           | 92               |      | 85                |      | 70-130              | 8   |      | 30            |
| Methyl tert butyl ether                                                                                       | 100              |      | 97                |      | 66-130              | 3   |      | 30            |
| p/m-Xylene                                                                                                    | 96               |      | 87                |      | 70-130              | 10  |      | 30            |
| o-Xylene                                                                                                      | 91               |      | 84                |      | 70-130              | 8   |      | 30            |
| cis-1,2-Dichloroethene                                                                                        | 95               |      | 87                |      | 70-130              | 9   |      | 30            |
| Dibromomethane                                                                                                | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Styrene                                                                                                       | 95               |      | 88                |      | 70-130              | 8   |      | 30            |
| Dichlorodifluoromethane                                                                                       | 103              |      | 92                |      | 30-146              | 11  |      | 30            |
| Acetone                                                                                                       | 82               |      | 85                |      | 54-140              | 4   |      | 30            |
| Carbon disulfide                                                                                              | 88               |      | 79                |      | 59-130              | 11  |      | 30            |
| 2-Butanone                                                                                                    | 69               | Q    | 68                | Q    | 70-130              | 1   |      | 30            |
| Vinyl acetate                                                                                                 | 82               |      | 80                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                          | 84               |      | 83                |      | 70-130              | 1   |      | 30            |
| 1,2,3-Trichloropropane                                                                                        | 88               |      | 88                |      | 68-130              | 0   |      | 30            |
| 2-Hexanone                                                                                                    | 80               |      | 81                |      | 70-130              | 1   |      | 30            |
| Bromochloromethane                                                                                            | 89               |      | 85                |      | 70-130              | 5   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1457655-3 WG1457655-4 |                  |      |                   |      |                     |     |      |               |
| 2,2-Dichloropropane                                                                                           | 107              |      | 99                |      | 70-130              | 8   |      | 30            |
| 1,2-Dibromoethane                                                                                             | 92               |      | 89                |      | 70-130              | 3   |      | 30            |
| 1,3-Dichloropropane                                                                                           | 98               |      | 92                |      | 69-130              | 6   |      | 30            |
| 1,1,1,2-Tetrachloroethane                                                                                     | 90               |      | 83                |      | 70-130              | 8   |      | 30            |
| Bromobenzene                                                                                                  | 92               |      | 83                |      | 70-130              | 10  |      | 30            |
| n-Butylbenzene                                                                                                | 102              |      | 93                |      | 70-130              | 9   |      | 30            |
| sec-Butylbenzene                                                                                              | 94               |      | 84                |      | 70-130              | 11  |      | 30            |
| tert-Butylbenzene                                                                                             | 93               |      | 83                |      | 70-130              | 11  |      | 30            |
| o-Chlorotoluene                                                                                               | 94               |      | 85                |      | 70-130              | 10  |      | 30            |
| p-Chlorotoluene                                                                                               | 98               |      | 88                |      | 70-130              | 11  |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                   | 89               |      | 89                |      | 68-130              | 0   |      | 30            |
| Hexachlorobutadiene                                                                                           | 117              |      | 105               |      | 67-130              | 11  |      | 30            |
| Isopropylbenzene                                                                                              | 95               |      | 85                |      | 70-130              | 11  |      | 30            |
| p-Isopropyltoluene                                                                                            | 96               |      | 87                |      | 70-130              | 10  |      | 30            |
| Naphthalene                                                                                                   | 88               |      | 86                |      | 70-130              | 2   |      | 30            |
| Acrylonitrile                                                                                                 | 76               |      | 77                |      | 70-130              | 1   |      | 30            |
| n-Propylbenzene                                                                                               | 98               |      | 88                |      | 70-130              | 11  |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                        | 100              |      | 94                |      | 70-130              | 6   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                        | 108              |      | 100               |      | 70-130              | 8   |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                        | 97               |      | 87                |      | 70-130              | 11  |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                        | 98               |      | 88                |      | 70-130              | 11  |      | 30            |
| 1,4-Dioxane                                                                                                   | 86               |      | 88                |      | 65-136              | 2   |      | 30            |
| p-Diethylbenzene                                                                                              | 100              |      | 89                |      | 70-130              | 12  |      | 30            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1457655-3 WG1457655-4 |                  |      |                   |      |                     |     |      |               |
| p-Ethyltoluene                                                                                                | 97               |      | 88                |      | 70-130              | 10  |      | 30            |
| 1,2,4,5-Tetramethylbenzene                                                                                    | 100              |      | 91                |      | 70-130              | 9   |      | 30            |
| Ethyl ether                                                                                                   | 101              |      | 96                |      | 67-130              | 5   |      | 30            |
| trans-1,4-Dichloro-2-butene                                                                                   | 85               |      | 87                |      | 70-130              | 2   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 107              |      | 109               |      | 70-130                 |
| Toluene-d8            | 102              |      | 102               |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 100               |      | 70-130                 |
| Dibromofluoromethane  | 101              |      | 103               |      | 70-130                 |

# SEMIVOLATILES



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-01  
 Client ID: SB-8 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:30  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 04:40  
 Analyst: SZ  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | 67     | J         | ug/kg | 150 | 19. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 180 | 21. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 20. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 160 | 25. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 33. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 31. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 49. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 36. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 31. | 1               |
| Fluoranthene                                     | 1800   |           | ug/kg | 110 | 21. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 220 | 31. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 27. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 520 | 160 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 30. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 160 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 160 | 27. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-ethylhexyl)phthalate                       | 90     | J         | ug/kg | 180 | 63. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 46. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 35. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 62. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-01  
 Client ID: SB-8 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:30  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 38. | 1               |
| Benzo(a)anthracene                               | 700    |           | ug/kg | 110 | 20. | 1               |
| Benzo(a)pyrene                                   | 590    |           | ug/kg | 150 | 44. | 1               |
| Benzo(b)fluoranthene                             | 760    |           | ug/kg | 110 | 31. | 1               |
| Benzo(k)fluoranthene                             | 260    |           | ug/kg | 110 | 29. | 1               |
| Chrysene                                         | 640    |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | 59     | J         | ug/kg | 150 | 28. | 1               |
| Anthracene                                       | 330    |           | ug/kg | 110 | 36. | 1               |
| Benzo(ghi)perylene                               | 380    |           | ug/kg | 150 | 21. | 1               |
| Fluorene                                         | 88     | J         | ug/kg | 180 | 18. | 1               |
| Phenanthrene                                     | 1500   |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | 82     | J         | ug/kg | 110 | 21. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 390    |           | ug/kg | 150 | 25. | 1               |
| Pyrene                                           | 1500   |           | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 420 | 42. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 33. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 35. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 34. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 76. | 1               |
| Dibenzofuran                                     | 86     | J         | ug/kg | 180 | 17. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 220 | 22. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 19. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 35. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 160 | 29. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 60. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 390 | 69. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 74. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 880 | 85. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 480 | 88. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 40. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 28. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 260 | 29. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-01

Date Collected: 01/18/21 08:30

Client ID: SB-8 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 35. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 590 | 180 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 180 | 56. | 1               |
| Carbazole                                        | 92     | J         | ug/kg | 180 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 27  | 8.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 76         |           | 25-120              |
| Phenol-d6            | 80         |           | 10-120              |
| Nitrobenzene-d5      | 78         |           | 23-120              |
| 2-Fluorobiphenyl     | 75         |           | 30-120              |
| 2,4,6-Tribromophenol | 96         |           | 10-136              |
| 4-Terphenyl-d14      | 58         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 13:26  
 Analyst: EK  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 19. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 21. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 25. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 32. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 50. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 37. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 32. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 28. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 220 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 27. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 30. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 23. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 28. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 65. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 47. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 36. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 64. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 39. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 46. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 32. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 29. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 36. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 18. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 23. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 110 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 430 | 43. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 34. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 35. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 78. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 220 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 36. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 30. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 62. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 400 | 70. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 76. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 900 | 87. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 490 | 90. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 41. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 29. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 29. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-02

Date Collected: 01/18/21 09:00

Client ID: SB-8 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 36. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 610 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 57. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 28  | 8.6 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 76         |           | 25-120              |
| Phenol-d6            | 78         |           | 10-120              |
| Nitrobenzene-d5      | 73         |           | 23-120              |
| 2-Fluorobiphenyl     | 64         |           | 30-120              |
| 2,4,6-Tribromophenol | 77         |           | 10-136              |
| 4-Terphenyl-d14      | 61         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-03  
 Client ID: SB-9 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 16:49  
 Analyst: EK  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 51. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 38. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 33. | 1               |
| Fluoranthene                                     | 100    | J         | ug/kg | 110 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 31. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 25. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 23. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 28. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 66. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 48. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 36. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 65. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-03

Date Collected: 01/18/21 09:40

Client ID: SB-9 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 40. | 1               |
| Benzo(a)anthracene                               | 78     | J         | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | 64     | J         | ug/kg | 150 | 46. | 1               |
| Benzo(b)fluoranthene                             | 80     | J         | ug/kg | 110 | 32. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | 70     | J         | ug/kg | 110 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 29. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 37. | 1               |
| Benzo(ghi)perylene                               | 45     | J         | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 18. | 1               |
| Phenanthrene                                     | 40     | J         | ug/kg | 110 | 23. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 43     | J         | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | 110    |           | ug/kg | 110 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 430 | 44. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 35. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 79. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 36. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 31. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 63. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 410 | 72. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 270 | 78. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 920 | 89. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 500 | 92. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 42. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 30. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 30. | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-03

Date Collected: 01/18/21 09:40

Client ID: SB-9 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 36. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 620 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 58. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 29  | 8.8 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 95         |           | 25-120              |
| Phenol-d6            | 96         |           | 10-120              |
| Nitrobenzene-d5      | 87         |           | 23-120              |
| 2-Fluorobiphenyl     | 74         |           | 30-120              |
| 2,4,6-Tribromophenol | 86         |           | 10-136              |
| 4-Terphenyl-d14      | 63         |           | 18-120              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-04  
 Client ID: SB-9 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 14:16  
 Analyst: EK  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 67. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-04  
 Client ID: SB-9 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 450 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 82. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 65. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 74. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 81. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 950 | 92. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 95. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-04

Date Collected: 01/18/21 10:00

Client ID: SB-9 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 640 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 61. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.1 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 89         |           | 25-120              |
| Phenol-d6            | 90         |           | 10-120              |
| Nitrobenzene-d5      | 81         |           | 23-120              |
| 2-Fluorobiphenyl     | 69         |           | 30-120              |
| 2,4,6-Tribromophenol | 81         |           | 10-136              |
| 4-Terphenyl-d14      | 61         |           | 18-120              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-05  
 Client ID: SB-10 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:10  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 01/30/21 16:50  
 Analyst: SG  
 Percent Solids: 84%

Extraction Method: ALPHA 23528  
 Extraction Date: 01/30/21 05:50

| Parameter                                                      | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |       |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 0.052  | J         | ng/g  | 0.528 | 0.024 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | 0.072  | J         | ng/g  | 0.528 | 0.049 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | ND     |           | ng/g  | 0.264 | 0.041 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | ND     |           | ng/g  | 0.528 | 0.056 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | 0.050  | J         | ng/g  | 0.264 | 0.048 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/g  | 0.264 | 0.064 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 2.39   |           | ng/g  | 0.264 | 0.044 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/g  | 0.528 | 0.190 | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/g  | 0.528 | 0.144 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | 0.157  | J         | ng/g  | 0.264 | 0.079 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | 0.928  |           | ng/g  | 0.264 | 0.137 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/g  | 0.264 | 0.071 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/g  | 0.528 | 0.303 | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/g  | 0.528 | 0.213 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/g  | 0.528 | 0.049 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/g  | 0.528 | 0.162 | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ng/g  | 0.528 | 0.104 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | 0.095  | J         | ng/g  | 0.528 | 0.089 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/g  | 0.528 | 0.074 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/g  | 0.528 | 0.216 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/g  | 0.528 | 0.057 | 1               |
| PFOA/PFOS, Total                                               | 3.32   |           | ng/g  | 0.264 | 0.044 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-05

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 98         |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 106        |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 110        |           | 74-139              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 109        |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 103        |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 106        |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 99         |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 65         |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 105        |           | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 102        |           | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 101        |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 77         |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 70         |           | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 100        |           | 61-155              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 17         |           | 10-117              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 62         |           | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 91         |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 70         |           | 24-159              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05 D

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 01/19/21 16:53

Analytical Date: 01/22/21 06:11

Analyst: SZ

Percent Solids: 84%

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 780  | 100 | 5               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 970  | 110 | 5               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 580  | 110 | 5               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 870  | 130 | 5               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 970  | 96. | 5               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 970  | 170 | 5               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 970  | 170 | 5               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 970  | 170 | 5               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 970  | 260 | 5               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 970  | 190 | 5               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 970  | 170 | 5               |
| Fluoranthene                                     | 3000   |           | ug/kg | 580  | 110 | 5               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 970  | 100 | 5               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 970  | 150 | 5               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 1200 | 160 | 5               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 1000 | 97. | 5               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 970  | 140 | 5               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 2800 | 880 | 5               |
| Hexachloroethane                                 | ND     |           | ug/kg | 780  | 160 | 5               |
| Isophorone                                       | ND     |           | ug/kg | 870  | 130 | 5               |
| Naphthalene                                      | ND     |           | ug/kg | 970  | 120 | 5               |
| Nitrobenzene                                     | ND     |           | ug/kg | 870  | 140 | 5               |
| NDPA/DPA                                         | ND     |           | ug/kg | 780  | 110 | 5               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 970  | 150 | 5               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 970  | 340 | 5               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 970  | 240 | 5               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 970  | 180 | 5               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 970  | 330 | 5               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-05 D

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 970  | 90. | 5               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 970  | 200 | 5               |
| Benzo(a)anthracene                               | 1500   |           | ug/kg | 580  | 110 | 5               |
| Benzo(a)pyrene                                   | 1800   |           | ug/kg | 780  | 240 | 5               |
| Benzo(b)fluoranthene                             | 2300   |           | ug/kg | 580  | 160 | 5               |
| Benzo(k)fluoranthene                             | 730    |           | ug/kg | 580  | 160 | 5               |
| Chrysene                                         | 1500   |           | ug/kg | 580  | 100 | 5               |
| Acenaphthylene                                   | 550    | J         | ug/kg | 780  | 150 | 5               |
| Anthracene                                       | 410    | J         | ug/kg | 580  | 190 | 5               |
| Benzo(ghi)perylene                               | 1300   |           | ug/kg | 780  | 110 | 5               |
| Fluorene                                         | 180    | J         | ug/kg | 970  | 94. | 5               |
| Phenanthrene                                     | 1700   |           | ug/kg | 580  | 120 | 5               |
| Dibenzo(a,h)anthracene                           | 310    | J         | ug/kg | 580  | 110 | 5               |
| Indeno(1,2,3-cd)pyrene                           | 1300   |           | ug/kg | 780  | 140 | 5               |
| Pyrene                                           | 2200   |           | ug/kg | 580  | 96. | 5               |
| Biphenyl                                         | ND     |           | ug/kg | 2200 | 220 | 5               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 970  | 180 | 5               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 970  | 190 | 5               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 970  | 180 | 5               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 970  | 400 | 5               |
| Dibenzofuran                                     | ND     |           | ug/kg | 970  | 92. | 5               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 1200 | 120 | 5               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 970  | 100 | 5               |
| Acetophenone                                     | ND     |           | ug/kg | 970  | 120 | 5               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 580  | 180 | 5               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 970  | 140 | 5               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 970  | 110 | 5               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 870  | 160 | 5               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 970  | 320 | 5               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 2100 | 360 | 5               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 1400 | 400 | 5               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 4700 | 450 | 5               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 2500 | 470 | 5               |
| Pentachlorophenol                                | ND     |           | ug/kg | 780  | 210 | 5               |
| Phenol                                           | ND     |           | ug/kg | 970  | 150 | 5               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 970  | 150 | 5               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 1400 | 150 | 5               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05 D

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 970  | 190 | 5               |
| Benzoic Acid                                     | ND     |           | ug/kg | 3100 | 980 | 5               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 970  | 300 | 5               |
| Carbazole                                        | 220    | J         | ug/kg | 970  | 94. | 5               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 140  | 45. | 5               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 65         |           | 25-120              |
| Phenol-d6            | 69         |           | 10-120              |
| Nitrobenzene-d5      | 71         |           | 23-120              |
| 2-Fluorobiphenyl     | 69         |           | 30-120              |
| 2,4,6-Tribromophenol | 80         |           | 10-136              |
| 4-Terphenyl-d14      | 55         |           | 18-120              |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-06  
 Client ID: SB-10 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 13:51  
 Analyst: JG  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 140 | 19. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 180 | 21. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 20. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 160 | 25. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 33. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 31. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 48. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 36. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 31. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 21. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 19. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 220 | 31. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 26. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 520 | 160 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 140 | 29. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 160 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 160 | 27. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 140 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 180 | 63. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 46. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 34. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 62. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-06  
 Client ID: SB-10 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 38. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 20. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 140 | 44. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 29. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 140 | 28. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 35. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 140 | 21. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 180 | 18. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 21. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 140 | 25. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 410 | 42. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 33. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 35. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 34. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 75. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 180 | 17. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 220 | 22. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 19. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 34. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 21. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 160 | 29. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 60. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 390 | 68. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 250 | 74. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 870 | 85. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 470 | 87. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 140 | 40. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 28. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 260 | 28. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-06

Date Collected: 01/18/21 10:40

Client ID: SB-10 (7-9)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 35. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 590 | 180 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 180 | 56. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 27  | 8.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 93         |           | 25-120              |
| Phenol-d6            | 95         |           | 10-120              |
| Nitrobenzene-d5      | 84         |           | 23-120              |
| 2-Fluorobiphenyl     | 71         |           | 30-120              |
| 2,4,6-Tribromophenol | 84         |           | 10-136              |
| 4-Terphenyl-d14      | 65         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-07 D

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 01/19/21 16:53

Analytical Date: 01/23/21 04:05

Analyst: SZ

Percent Solids: 91%

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 730  | 94. | 5               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 910  | 100 | 5               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 550  | 100 | 5               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 820  | 120 | 5               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 910  | 90. | 5               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 910  | 160 | 5               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 910  | 160 | 5               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 910  | 160 | 5               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 910  | 240 | 5               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 910  | 180 | 5               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 910  | 160 | 5               |
| Fluoranthene                                     | ND     |           | ug/kg | 550  | 100 | 5               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 910  | 98. | 5               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 910  | 140 | 5               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 1100 | 160 | 5               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 980  | 91. | 5               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 910  | 130 | 5               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 2600 | 830 | 5               |
| Hexachloroethane                                 | ND     |           | ug/kg | 730  | 150 | 5               |
| Isophorone                                       | ND     |           | ug/kg | 820  | 120 | 5               |
| Naphthalene                                      | ND     |           | ug/kg | 910  | 110 | 5               |
| Nitrobenzene                                     | ND     |           | ug/kg | 820  | 140 | 5               |
| NDPA/DPA                                         | ND     |           | ug/kg | 730  | 100 | 5               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 910  | 140 | 5               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 910  | 320 | 5               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 910  | 230 | 5               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 910  | 170 | 5               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 910  | 310 | 5               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-07 D

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 910  | 84. | 5               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 910  | 190 | 5               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 550  | 100 | 5               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 730  | 220 | 5               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 550  | 150 | 5               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 550  | 140 | 5               |
| Chrysene                                         | ND     |           | ug/kg | 550  | 95. | 5               |
| Acenaphthylene                                   | ND     |           | ug/kg | 730  | 140 | 5               |
| Anthracene                                       | ND     |           | ug/kg | 550  | 180 | 5               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 730  | 110 | 5               |
| Fluorene                                         | ND     |           | ug/kg | 910  | 89. | 5               |
| Phenanthrene                                     | ND     |           | ug/kg | 550  | 110 | 5               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 550  | 100 | 5               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 730  | 130 | 5               |
| Pyrene                                           | ND     |           | ug/kg | 550  | 91. | 5               |
| Biphenyl                                         | ND     |           | ug/kg | 2100 | 210 | 5               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 910  | 170 | 5               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 910  | 180 | 5               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 910  | 170 | 5               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 910  | 380 | 5               |
| Dibenzofuran                                     | ND     |           | ug/kg | 910  | 86. | 5               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 1100 | 110 | 5               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 910  | 95. | 5               |
| Acetophenone                                     | ND     |           | ug/kg | 910  | 110 | 5               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 550  | 170 | 5               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 910  | 140 | 5               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 910  | 110 | 5               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 820  | 150 | 5               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 910  | 300 | 5               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 2000 | 340 | 5               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 1300 | 370 | 5               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 4400 | 420 | 5               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 2400 | 440 | 5               |
| Pentachlorophenol                                | ND     |           | ug/kg | 730  | 200 | 5               |
| Phenol                                           | ND     |           | ug/kg | 910  | 140 | 5               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 910  | 140 | 5               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 1300 | 140 | 5               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-07 D

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 910  | 170 | 5               |
| Benzoic Acid                                     | ND     |           | ug/kg | 3000 | 920 | 5               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 910  | 280 | 5               |
| Carbazole                                        | ND     |           | ug/kg | 910  | 89. | 5               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 140  | 42. | 5               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 50         |           | 25-120              |
| Phenol-d6            | 52         |           | 10-120              |
| Nitrobenzene-d5      | 51         |           | 23-120              |
| 2-Fluorobiphenyl     | 53         |           | 30-120              |
| 2,4,6-Tribromophenol | 56         |           | 10-136              |
| 4-Terphenyl-d14      | 46         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 23:02  
 Analyst: SZ  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 140 | 18. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 180 | 20. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 20. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 160 | 24. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 30. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 31. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 47. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 35. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 30. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 20. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 19. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 27. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 210 | 30. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 190 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 26. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 510 | 160 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 140 | 29. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 160 | 23. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 160 | 26. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 140 | 20. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 27. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 180 | 61. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 45. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 34. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 60. | 1               |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 16. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 37. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 20. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 140 | 43. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 28. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 18. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 140 | 27. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 34. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 140 | 21. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 180 | 17. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 20. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 140 | 25. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 400 | 41. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 32. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 34. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 33. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 73. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 180 | 17. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 210 | 21. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 18. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 34. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 26. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 21. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 160 | 28. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 58. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 380 | 67. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 250 | 72. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 850 | 83. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 460 | 85. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 140 | 39. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 27. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 260 | 28. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08

Date Collected: 01/18/21 12:00

Client ID: SB-13 (17.5-19.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 34. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 570 | 180 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 180 | 54. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 180 | 17. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 27  | 8.2 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 85         |           | 25-120              |
| Phenol-d6            | 88         |           | 10-120              |
| Nitrobenzene-d5      | 87         |           | 23-120              |
| 2-Fluorobiphenyl     | 89         |           | 30-120              |
| 2,4,6-Tribromophenol | 124        |           | 10-136              |
| 4-Terphenyl-d14      | 79         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 1,8270D  
 Analytical Date: 01/25/21 10:52  
 Analyst: WR

Extraction Method: EPA 3510C  
 Extraction Date: 01/19/21 07:20

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Acenaphthene                                     | ND     |           | ug/l  | 2.0 | 0.44 | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorobenzene                                | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/l  | 2.0 | 0.44 | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/l  | 2.0 | 0.45 | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/l  | 2.0 | 0.40 | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/l  | 2.0 | 0.43 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 5.0 | 1.6  | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 0.93 | 1               |
| Fluoranthene                                     | ND     |           | ug/l  | 2.0 | 0.26 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 2.0 | 0.38 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 2.0 | 0.53 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/l  | 2.0 | 0.66 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 20  | 0.69 | 1               |
| Hexachloroethane                                 | ND     |           | ug/l  | 2.0 | 0.58 | 1               |
| Isophorone                                       | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Naphthalene                                      | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 2.0 | 0.77 | 1               |
| NDPA/DPA                                         | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 5.0 | 0.64 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/l  | 3.0 | 1.5  | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 5.0 | 0.39 | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 5.0 | 1.3  | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Diethyl phthalate                                | ND     |           | ug/l  | 5.0 | 0.38 | 1               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/l  | 2.0 | 0.32 | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/l  | 2.0 | 0.41 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/l  | 2.0 | 0.37 | 1               |
| Chrysene                                         | ND     |           | ug/l  | 2.0 | 0.34 | 1               |
| Acenaphthylene                                   | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| Anthracene                                       | ND     |           | ug/l  | 2.0 | 0.33 | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/l  | 2.0 | 0.30 | 1               |
| Fluorene                                         | ND     |           | ug/l  | 2.0 | 0.41 | 1               |
| Phenanthrene                                     | ND     |           | ug/l  | 2.0 | 0.33 | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/l  | 2.0 | 0.32 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/l  | 2.0 | 0.40 | 1               |
| Pyrene                                           | ND     |           | ug/l  | 2.0 | 0.28 | 1               |
| Biphenyl                                         | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 5.0 | 1.1  | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.81 | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.80 | 1               |
| Dibenzofuran                                     | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/l  | 2.0 | 0.45 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 10  | 0.44 | 1               |
| Acetophenone                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.61 | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 2.0 | 0.48 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 5.0 | 0.41 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.85 | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.67 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 20  | 6.6  | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Pentachlorophenol                                | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Phenol                                           | ND     |           | ug/l  | 5.0 | 0.57 | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 5.0 | 0.49 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 5.0 | 0.48 | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-09

Date Collected: 01/18/21 08:50

Client ID: FIELD BLANK

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.77 | 1               |
| Benzoic Acid                                     | ND     |           | ug/l  | 50  | 2.6  | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/l  | 2.0 | 0.59 | 1               |
| Carbazole                                        | ND     |           | ug/l  | 2.0 | 0.49 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 67         |           | 21-120              |
| Phenol-d6            | 55         |           | 10-120              |
| Nitrobenzene-d5      | 87         |           | 23-120              |
| 2-Fluorobiphenyl     | 85         |           | 15-120              |
| 2,4,6-Tribromophenol | 46         |           | 10-120              |
| 4-Terphenyl-d14      | 92         |           | 41-149              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-11  
 Client ID: SB-18 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/21/21 00:46  
 Analyst: SZ  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 21. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 23. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 54. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 35. | 1               |
| Fluoranthene                                     | 350    |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 22. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 30. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 580 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 33. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 25. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 70. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 51. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 69. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 19. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | 190    |           | ug/kg | 120 | 23. | 1               |
| Benzo(a)pyrene                                   | 140    | J         | ug/kg | 160 | 49. | 1               |
| Benzo(b)fluoranthene                             | 180    |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | 50     | J         | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 170    |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | 130    | J         | ug/kg | 160 | 24. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 20. | 1               |
| Phenanthrene                                     | 220    |           | ug/kg | 120 | 25. | 1               |
| Dibenzo(a,h)anthracene                           | 33     | J         | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 150    | J         | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 330    |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 460 | 47. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 37. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 39. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 84. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 67. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 440 | 76. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 82. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 970 | 94. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 530 | 97. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 32. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 39. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 660 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 62. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.3 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 74         |           | 25-120              |
| Phenol-d6            | 85         |           | 10-120              |
| Nitrobenzene-d5      | 91         |           | 23-120              |
| 2-Fluorobiphenyl     | 88         |           | 30-120              |
| 2,4,6-Tribromophenol | 108        |           | 10-136              |
| 4-Terphenyl-d14      | 69         |           | 18-120              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-12  
 Client ID: SB-18 (20-22)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:20  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 22:36  
 Analyst: SZ  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 140 | 18. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 180 | 20. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 20. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 160 | 24. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 31. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 31. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 48. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 36. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 31. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 20. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 19. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 27. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 210 | 30. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 190 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 26. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 510 | 160 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 140 | 29. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 160 | 23. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 160 | 26. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 140 | 20. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 180 | 62. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 45. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 34. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 61. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-12  
 Client ID: SB-18 (20-22)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:20  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 16. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 38. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 20. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 140 | 44. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 29. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 140 | 28. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 35. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 140 | 21. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 180 | 17. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 21. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 140 | 25. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 410 | 42. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 32. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 34. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 34. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 74. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 180 | 17. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 210 | 22. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 19. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 34. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 21. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 160 | 29. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 59. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 390 | 67. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 250 | 73. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 860 | 83. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 460 | 86. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 140 | 39. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 28. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 260 | 28. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-12

Date Collected: 01/18/21 13:20

Client ID: SB-18 (20-22)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 34. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 580 | 180 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 180 | 55. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 180 | 17. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 27  | 8.2 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 88         |           | 25-120              |
| Phenol-d6            | 94         |           | 10-120              |
| Nitrobenzene-d5      | 91         |           | 23-120              |
| 2-Fluorobiphenyl     | 98         |           | 30-120              |
| 2,4,6-Tribromophenol | 118        |           | 10-136              |
| 4-Terphenyl-d14      | 83         |           | 18-120              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/20/21 02:03  
**Analyst:** JG

**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/19/21 07:20

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1456255-1 |        |           |       |     |      |
| Acenaphthene                                                                          | ND     |           | ug/l  | 2.0 | 0.44 |
| 1,2,4-Trichlorobenzene                                                                | ND     |           | ug/l  | 5.0 | 0.50 |
| Hexachlorobenzene                                                                     | ND     |           | ug/l  | 2.0 | 0.46 |
| Bis(2-chloroethyl)ether                                                               | ND     |           | ug/l  | 2.0 | 0.50 |
| 2-Chloronaphthalene                                                                   | ND     |           | ug/l  | 2.0 | 0.44 |
| 1,2-Dichlorobenzene                                                                   | ND     |           | ug/l  | 2.0 | 0.45 |
| 1,3-Dichlorobenzene                                                                   | ND     |           | ug/l  | 2.0 | 0.40 |
| 1,4-Dichlorobenzene                                                                   | ND     |           | ug/l  | 2.0 | 0.43 |
| 3,3'-Dichlorobenzidine                                                                | ND     |           | ug/l  | 5.0 | 1.6  |
| 2,4-Dinitrotoluene                                                                    | ND     |           | ug/l  | 5.0 | 1.2  |
| 2,6-Dinitrotoluene                                                                    | ND     |           | ug/l  | 5.0 | 0.93 |
| Fluoranthene                                                                          | ND     |           | ug/l  | 2.0 | 0.26 |
| 4-Chlorophenyl phenyl ether                                                           | ND     |           | ug/l  | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether                                                            | ND     |           | ug/l  | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether                                                           | ND     |           | ug/l  | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane                                                            | ND     |           | ug/l  | 5.0 | 0.50 |
| Hexachlorobutadiene                                                                   | ND     |           | ug/l  | 2.0 | 0.66 |
| Hexachlorocyclopentadiene                                                             | ND     |           | ug/l  | 20  | 0.69 |
| Hexachloroethane                                                                      | ND     |           | ug/l  | 2.0 | 0.58 |
| Isophorone                                                                            | ND     |           | ug/l  | 5.0 | 1.2  |
| Naphthalene                                                                           | ND     |           | ug/l  | 2.0 | 0.46 |
| Nitrobenzene                                                                          | ND     |           | ug/l  | 2.0 | 0.77 |
| NDPA/DPA                                                                              | ND     |           | ug/l  | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine                                                             | ND     |           | ug/l  | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate                                                            | ND     |           | ug/l  | 3.0 | 1.5  |
| Butyl benzyl phthalate                                                                | ND     |           | ug/l  | 5.0 | 1.2  |
| Di-n-butylphthalate                                                                   | ND     |           | ug/l  | 5.0 | 0.39 |
| Di-n-octylphthalate                                                                   | ND     |           | ug/l  | 5.0 | 1.3  |
| Diethyl phthalate                                                                     | ND     |           | ug/l  | 5.0 | 0.38 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/20/21 02:03  
**Analyst:** JG

**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/19/21 07:20

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1456255-1 |        |           |       |     |      |
| Dimethyl phthalate                                                                    | ND     |           | ug/l  | 5.0 | 1.8  |
| Benzo(a)anthracene                                                                    | ND     |           | ug/l  | 2.0 | 0.32 |
| Benzo(a)pyrene                                                                        | ND     |           | ug/l  | 2.0 | 0.41 |
| Benzo(b)fluoranthene                                                                  | ND     |           | ug/l  | 2.0 | 0.35 |
| Benzo(k)fluoranthene                                                                  | ND     |           | ug/l  | 2.0 | 0.37 |
| Chrysene                                                                              | ND     |           | ug/l  | 2.0 | 0.34 |
| Acenaphthylene                                                                        | ND     |           | ug/l  | 2.0 | 0.46 |
| Anthracene                                                                            | ND     |           | ug/l  | 2.0 | 0.33 |
| Benzo(ghi)perylene                                                                    | ND     |           | ug/l  | 2.0 | 0.30 |
| Fluorene                                                                              | ND     |           | ug/l  | 2.0 | 0.41 |
| Phenanthrene                                                                          | ND     |           | ug/l  | 2.0 | 0.33 |
| Dibenzo(a,h)anthracene                                                                | ND     |           | ug/l  | 2.0 | 0.32 |
| Indeno(1,2,3-cd)pyrene                                                                | ND     |           | ug/l  | 2.0 | 0.40 |
| Pyrene                                                                                | ND     |           | ug/l  | 2.0 | 0.28 |
| Biphenyl                                                                              | ND     |           | ug/l  | 2.0 | 0.46 |
| 4-Chloroaniline                                                                       | ND     |           | ug/l  | 5.0 | 1.1  |
| 2-Nitroaniline                                                                        | ND     |           | ug/l  | 5.0 | 0.50 |
| 3-Nitroaniline                                                                        | ND     |           | ug/l  | 5.0 | 0.81 |
| 4-Nitroaniline                                                                        | ND     |           | ug/l  | 5.0 | 0.80 |
| Dibenzofuran                                                                          | ND     |           | ug/l  | 2.0 | 0.50 |
| 2-Methylnaphthalene                                                                   | ND     |           | ug/l  | 2.0 | 0.45 |
| 1,2,4,5-Tetrachlorobenzene                                                            | ND     |           | ug/l  | 10  | 0.44 |
| Acetophenone                                                                          | ND     |           | ug/l  | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol                                                                 | ND     |           | ug/l  | 5.0 | 0.61 |
| p-Chloro-m-cresol                                                                     | ND     |           | ug/l  | 2.0 | 0.35 |
| 2-Chlorophenol                                                                        | ND     |           | ug/l  | 2.0 | 0.48 |
| 2,4-Dichlorophenol                                                                    | ND     |           | ug/l  | 5.0 | 0.41 |
| 2,4-Dimethylphenol                                                                    | ND     |           | ug/l  | 5.0 | 1.8  |
| 2-Nitrophenol                                                                         | ND     |           | ug/l  | 10  | 0.85 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/20/21 02:03  
**Analyst:** JG

**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/19/21 07:20

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1456255-1 |        |           |       |     |      |
| 4-Nitrophenol                                                                         | ND     |           | ug/l  | 10  | 0.67 |
| 2,4-Dinitrophenol                                                                     | ND     |           | ug/l  | 20  | 6.6  |
| 4,6-Dinitro-o-cresol                                                                  | ND     |           | ug/l  | 10  | 1.8  |
| Pentachlorophenol                                                                     | ND     |           | ug/l  | 10  | 1.8  |
| Phenol                                                                                | ND     |           | ug/l  | 5.0 | 0.57 |
| 2-Methylphenol                                                                        | ND     |           | ug/l  | 5.0 | 0.49 |
| 3-Methylphenol/4-Methylphenol                                                         | ND     |           | ug/l  | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol                                                                 | ND     |           | ug/l  | 5.0 | 0.77 |
| Benzoic Acid                                                                          | ND     |           | ug/l  | 50  | 2.6  |
| Benzyl Alcohol                                                                        | ND     |           | ug/l  | 2.0 | 0.59 |
| Carbazole                                                                             | ND     |           | ug/l  | 2.0 | 0.49 |

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 60        |           | 21-120              |
| Phenol-d6            | 48        |           | 10-120              |
| Nitrobenzene-d5      | 69        |           | 23-120              |
| 2-Fluorobiphenyl     | 71        |           | 15-120              |
| 2,4,6-Tribromophenol | 56        |           | 10-120              |
| 4-Terphenyl-d14      | 69        |           | 41-149              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/20/21 12:36  
**Analyst:** IM

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 16:53

| Parameter                                                                                      | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456543-1 |        |           |       |     |     |
| Acenaphthene                                                                                   | ND     |           | ug/kg | 130 | 17. |
| 1,2,4-Trichlorobenzene                                                                         | ND     |           | ug/kg | 160 | 19. |
| Hexachlorobenzene                                                                              | ND     |           | ug/kg | 98  | 18. |
| Bis(2-chloroethyl)ether                                                                        | ND     |           | ug/kg | 150 | 22. |
| 2-Chloronaphthalene                                                                            | ND     |           | ug/kg | 160 | 16. |
| 1,2-Dichlorobenzene                                                                            | ND     |           | ug/kg | 160 | 29. |
| 1,3-Dichlorobenzene                                                                            | ND     |           | ug/kg | 160 | 28. |
| 1,4-Dichlorobenzene                                                                            | ND     |           | ug/kg | 160 | 28. |
| 3,3'-Dichlorobenzidine                                                                         | ND     |           | ug/kg | 160 | 43. |
| 2,4-Dinitrotoluene                                                                             | ND     |           | ug/kg | 160 | 32. |
| 2,6-Dinitrotoluene                                                                             | ND     |           | ug/kg | 160 | 28. |
| Fluoranthene                                                                                   | ND     |           | ug/kg | 98  | 19. |
| 4-Chlorophenyl phenyl ether                                                                    | ND     |           | ug/kg | 160 | 17. |
| 4-Bromophenyl phenyl ether                                                                     | ND     |           | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether                                                                    | ND     |           | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane                                                                     | ND     |           | ug/kg | 180 | 16. |
| Hexachlorobutadiene                                                                            | ND     |           | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene                                                                      | ND     |           | ug/kg | 460 | 150 |
| Hexachloroethane                                                                               | ND     |           | ug/kg | 130 | 26. |
| Isophorone                                                                                     | ND     |           | ug/kg | 150 | 21. |
| Naphthalene                                                                                    | ND     |           | ug/kg | 160 | 20. |
| Nitrobenzene                                                                                   | ND     |           | ug/kg | 150 | 24. |
| NDPA/DPA                                                                                       | ND     |           | ug/kg | 130 | 18. |
| n-Nitrosodi-n-propylamine                                                                      | ND     |           | ug/kg | 160 | 25. |
| Bis(2-ethylhexyl)phthalate                                                                     | ND     |           | ug/kg | 160 | 56. |
| Butyl benzyl phthalate                                                                         | ND     |           | ug/kg | 160 | 41. |
| Di-n-butylphthalate                                                                            | ND     |           | ug/kg | 160 | 31. |
| Di-n-octylphthalate                                                                            | ND     |           | ug/kg | 160 | 55. |
| Diethyl phthalate                                                                              | ND     |           | ug/kg | 160 | 15. |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8270D  
 Analytical Date: 01/20/21 12:36  
 Analyst: IM

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 16:53

| Parameter                                                                                      | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456543-1 |        |           |       |     |     |
| Dimethyl phthalate                                                                             | ND     |           | ug/kg | 160 | 34. |
| Benzo(a)anthracene                                                                             | ND     |           | ug/kg | 98  | 18. |
| Benzo(a)pyrene                                                                                 | ND     |           | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene                                                                           | ND     |           | ug/kg | 98  | 27. |
| Benzo(k)fluoranthene                                                                           | ND     |           | ug/kg | 98  | 26. |
| Chrysene                                                                                       | ND     |           | ug/kg | 98  | 17. |
| Acenaphthylene                                                                                 | ND     |           | ug/kg | 130 | 25. |
| Anthracene                                                                                     | ND     |           | ug/kg | 98  | 32. |
| Benzo(ghi)perylene                                                                             | ND     |           | ug/kg | 130 | 19. |
| Fluorene                                                                                       | ND     |           | ug/kg | 160 | 16. |
| Phenanthrene                                                                                   | ND     |           | ug/kg | 98  | 20. |
| Dibenzo(a,h)anthracene                                                                         | ND     |           | ug/kg | 98  | 19. |
| Indeno(1,2,3-cd)pyrene                                                                         | ND     |           | ug/kg | 130 | 23. |
| Pyrene                                                                                         | ND     |           | ug/kg | 98  | 16. |
| Biphenyl                                                                                       | ND     |           | ug/kg | 370 | 38. |
| 4-Chloroaniline                                                                                | ND     |           | ug/kg | 160 | 30. |
| 2-Nitroaniline                                                                                 | ND     |           | ug/kg | 160 | 31. |
| 3-Nitroaniline                                                                                 | ND     |           | ug/kg | 160 | 31. |
| 4-Nitroaniline                                                                                 | ND     |           | ug/kg | 160 | 67. |
| Dibenzofuran                                                                                   | ND     |           | ug/kg | 160 | 15. |
| 2-Methylnaphthalene                                                                            | ND     |           | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene                                                                     | ND     |           | ug/kg | 160 | 17. |
| Acetophenone                                                                                   | ND     |           | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol                                                                          | ND     |           | ug/kg | 98  | 31. |
| p-Chloro-m-cresol                                                                              | ND     |           | ug/kg | 160 | 24. |
| 2-Chlorophenol                                                                                 | ND     |           | ug/kg | 160 | 19. |
| 2,4-Dichlorophenol                                                                             | ND     |           | ug/kg | 150 | 26. |
| 2,4-Dimethylphenol                                                                             | ND     |           | ug/kg | 160 | 54. |
| 2-Nitrophenol                                                                                  | ND     |           | ug/kg | 350 | 61. |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/20/21 12:36  
**Analyst:** IM

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 16:53

| Parameter                                                                                      | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456543-1 |        |           |       |     |     |
| 4-Nitrophenol                                                                                  | ND     |           | ug/kg | 230 | 66. |
| 2,4-Dinitrophenol                                                                              | ND     |           | ug/kg | 780 | 76. |
| 4,6-Dinitro-o-cresol                                                                           | ND     |           | ug/kg | 420 | 78. |
| Pentachlorophenol                                                                              | ND     |           | ug/kg | 130 | 36. |
| Phenol                                                                                         | ND     |           | ug/kg | 160 | 25. |
| 2-Methylphenol                                                                                 | ND     |           | ug/kg | 160 | 25. |
| 3-Methylphenol/4-Methylphenol                                                                  | ND     |           | ug/kg | 230 | 26. |
| 2,4,5-Trichlorophenol                                                                          | ND     |           | ug/kg | 160 | 31. |
| Benzoic Acid                                                                                   | ND     |           | ug/kg | 530 | 160 |
| Benzyl Alcohol                                                                                 | ND     |           | ug/kg | 160 | 50. |
| Carbazole                                                                                      | ND     |           | ug/kg | 160 | 16. |
| 1,4-Dioxane                                                                                    | ND     |           | ug/kg | 24  | 7.5 |

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 94        |           | 25-120              |
| Phenol-d6            | 94        |           | 10-120              |
| Nitrobenzene-d5      | 82        |           | 23-120              |
| 2-Fluorobiphenyl     | 74        |           | 30-120              |
| 2,4,6-Tribromophenol | 83        |           | 10-136              |
| 4-Terphenyl-d14      | 80        |           | 18-120              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/30/21 16:17  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL    | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1460241-1 |        |           |       |       |       |
| Perfluorobutanoic Acid (PFBA)                                                                       | ND     |           | ng/g  | 0.500 | 0.023 |
| Perfluoropentanoic Acid (PFPeA)                                                                     | ND     |           | ng/g  | 0.500 | 0.046 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                 | ND     |           | ng/g  | 0.250 | 0.039 |
| Perfluorohexanoic Acid (PFHxA)                                                                      | ND     |           | ng/g  | 0.500 | 0.053 |
| Perfluoroheptanoic Acid (PFHpA)                                                                     | ND     |           | ng/g  | 0.250 | 0.045 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                | ND     |           | ng/g  | 0.250 | 0.061 |
| Perfluorooctanoic Acid (PFOA)                                                                       | ND     |           | ng/g  | 0.250 | 0.042 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                   | ND     |           | ng/g  | 0.500 | 0.180 |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                               | ND     |           | ng/g  | 0.500 | 0.136 |
| Perfluorononanoic Acid (PFNA)                                                                       | ND     |           | ng/g  | 0.250 | 0.075 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                 | ND     |           | ng/g  | 0.250 | 0.130 |
| Perfluorodecanoic Acid (PFDA)                                                                       | ND     |           | ng/g  | 0.250 | 0.067 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                   | ND     |           | ng/g  | 0.500 | 0.287 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                           | ND     |           | ng/g  | 0.500 | 0.202 |
| Perfluoroundecanoic Acid (PFUnA)                                                                    | ND     |           | ng/g  | 0.500 | 0.047 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                 | ND     |           | ng/g  | 0.500 | 0.153 |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ng/g  | 0.500 | 0.098 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                            | ND     |           | ng/g  | 0.500 | 0.085 |
| Perfluorododecanoic Acid (PFDoA)                                                                    | ND     |           | ng/g  | 0.500 | 0.070 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                  | ND     |           | ng/g  | 0.500 | 0.204 |
| Perfluorotetradecanoic Acid (PFTA)                                                                  | ND     |           | ng/g  | 0.500 | 0.054 |
| PFOA/PFOS, Total                                                                                    | ND     |           | ng/g  | 0.250 | 0.042 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/30/21 16:17  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1460241-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 104       |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 115       |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 118       |           | 74-139              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 117       |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 111       |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 119       |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 105       |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 65        |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 111       |           | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 106       |           | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 105       |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 76        |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 72        |           | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105       |           | 61-155              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 51        |           | 10-117              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 62        |           | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 97        |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 73        |           | 24-159              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/31/21 12:10  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL    | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1460241-1 |        |           |       |       |       |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ng/g  | 0.500 | 0.098 |

| Surrogate (Extracted Internal Standard)   | %Recovery | Qualifier | Acceptance Criteria |
|-------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 78        |           | 10-117              |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1456255-2 WG1456255-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                             | 79               |      | 78                |      | 37-111              | 1   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                   | 75               |      | 74                |      | 39-98               | 1   |      | 30            |
| Hexachlorobenzene                                                                                        | 78               |      | 76                |      | 40-140              | 3   |      | 30            |
| Bis(2-chloroethyl)ether                                                                                  | 74               |      | 70                |      | 40-140              | 6   |      | 30            |
| 2-Chloronaphthalene                                                                                      | 74               |      | 76                |      | 40-140              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                      | 71               |      | 69                |      | 40-140              | 3   |      | 30            |
| 1,3-Dichlorobenzene                                                                                      | 70               |      | 69                |      | 40-140              | 1   |      | 30            |
| 1,4-Dichlorobenzene                                                                                      | 71               |      | 68                |      | 36-97               | 4   |      | 30            |
| 3,3'-Dichlorobenzidine                                                                                   | 59               |      | 63                |      | 40-140              | 7   |      | 30            |
| 2,4-Dinitrotoluene                                                                                       | 77               |      | 84                |      | 48-143              | 9   |      | 30            |
| 2,6-Dinitrotoluene                                                                                       | 72               |      | 82                |      | 40-140              | 13  |      | 30            |
| Fluoranthene                                                                                             | 75               |      | 82                |      | 40-140              | 9   |      | 30            |
| 4-Chlorophenyl phenyl ether                                                                              | 79               |      | 81                |      | 40-140              | 3   |      | 30            |
| 4-Bromophenyl phenyl ether                                                                               | 77               |      | 83                |      | 40-140              | 8   |      | 30            |
| Bis(2-chloroisopropyl)ether                                                                              | 71               |      | 69                |      | 40-140              | 3   |      | 30            |
| Bis(2-chloroethoxy)methane                                                                               | 72               |      | 73                |      | 40-140              | 1   |      | 30            |
| Hexachlorobutadiene                                                                                      | 74               |      | 73                |      | 40-140              | 1   |      | 30            |
| Hexachlorocyclopentadiene                                                                                | 69               |      | 71                |      | 40-140              | 3   |      | 30            |
| Hexachloroethane                                                                                         | 70               |      | 68                |      | 40-140              | 3   |      | 30            |
| Isophorone                                                                                               | 75               |      | 76                |      | 40-140              | 1   |      | 30            |
| Naphthalene                                                                                              | 75               |      | 73                |      | 40-140              | 3   |      | 30            |
| Nitrobenzene                                                                                             | 78               |      | 76                |      | 40-140              | 3   |      | 30            |
| NDPA/DPA                                                                                                 | 76               |      | 80                |      | 40-140              | 5   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1456255-2 WG1456255-3 |                  |      |                   |      |                     |     |      |               |
| n-Nitrosodi-n-propylamine                                                                                | 78               |      | 76                |      | 29-132              | 3   |      | 30            |
| Bis(2-ethylhexyl)phthalate                                                                               | 72               |      | 78                |      | 40-140              | 8   |      | 30            |
| Butyl benzyl phthalate                                                                                   | 68               |      | 84                |      | 40-140              | 21  |      | 30            |
| Di-n-butylphthalate                                                                                      | 71               |      | 82                |      | 40-140              | 14  |      | 30            |
| Di-n-octylphthalate                                                                                      | 74               |      | 80                |      | 40-140              | 8   |      | 30            |
| Diethyl phthalate                                                                                        | 77               |      | 82                |      | 40-140              | 6   |      | 30            |
| Dimethyl phthalate                                                                                       | 76               |      | 83                |      | 40-140              | 9   |      | 30            |
| Benzo(a)anthracene                                                                                       | 79               |      | 81                |      | 40-140              | 3   |      | 30            |
| Benzo(a)pyrene                                                                                           | 90               |      | 89                |      | 40-140              | 1   |      | 30            |
| Benzo(b)fluoranthene                                                                                     | 82               |      | 88                |      | 40-140              | 7   |      | 30            |
| Benzo(k)fluoranthene                                                                                     | 92               |      | 85                |      | 40-140              | 8   |      | 30            |
| Chrysene                                                                                                 | 80               |      | 84                |      | 40-140              | 5   |      | 30            |
| Acenaphthylene                                                                                           | 74               |      | 78                |      | 45-123              | 5   |      | 30            |
| Anthracene                                                                                               | 80               |      | 82                |      | 40-140              | 2   |      | 30            |
| Benzo(ghi)perylene                                                                                       | 93               |      | 94                |      | 40-140              | 1   |      | 30            |
| Fluorene                                                                                                 | 80               |      | 83                |      | 40-140              | 4   |      | 30            |
| Phenanthrene                                                                                             | 78               |      | 80                |      | 40-140              | 3   |      | 30            |
| Dibenzo(a,h)anthracene                                                                                   | 95               |      | 96                |      | 40-140              | 1   |      | 30            |
| Indeno(1,2,3-cd)pyrene                                                                                   | 91               |      | 96                |      | 40-140              | 5   |      | 30            |
| Pyrene                                                                                                   | 74               |      | 83                |      | 26-127              | 11  |      | 30            |
| Biphenyl                                                                                                 | 78               |      | 81                |      | 40-140              | 4   |      | 30            |
| 4-Chloroaniline                                                                                          | 75               |      | 52                |      | 40-140              | 36  | Q    | 30            |
| 2-Nitroaniline                                                                                           | 73               |      | 82                |      | 52-143              | 12  |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1456255-2 WG1456255-3 |                  |      |                   |      |                     |     |      |               |
| 3-Nitroaniline                                                                                           | 71               |      | 78                |      | 25-145              | 9   |      | 30            |
| 4-Nitroaniline                                                                                           | 73               |      | 74                |      | 51-143              | 1   |      | 30            |
| Dibenzofuran                                                                                             | 80               |      | 80                |      | 40-140              | 0   |      | 30            |
| 2-Methylnaphthalene                                                                                      | 76               |      | 75                |      | 40-140              | 1   |      | 30            |
| 1,2,4,5-Tetrachlorobenzene                                                                               | 77               |      | 78                |      | 2-134               | 1   |      | 30            |
| Acetophenone                                                                                             | 78               |      | 76                |      | 39-129              | 3   |      | 30            |
| 2,4,6-Trichlorophenol                                                                                    | 74               |      | 79                |      | 30-130              | 7   |      | 30            |
| p-Chloro-m-cresol                                                                                        | 76               |      | 81                |      | 23-97               | 6   |      | 30            |
| 2-Chlorophenol                                                                                           | 78               |      | 74                |      | 27-123              | 5   |      | 30            |
| 2,4-Dichlorophenol                                                                                       | 77               |      | 76                |      | 30-130              | 1   |      | 30            |
| 2,4-Dimethylphenol                                                                                       | 64               |      | 50                |      | 30-130              | 25  |      | 30            |
| 2-Nitrophenol                                                                                            | 81               |      | 83                |      | 30-130              | 2   |      | 30            |
| 4-Nitrophenol                                                                                            | 70               |      | 78                |      | 10-80               | 11  |      | 30            |
| 2,4-Dinitrophenol                                                                                        | 80               |      | 91                |      | 20-130              | 13  |      | 30            |
| 4,6-Dinitro-o-cresol                                                                                     | 82               |      | 90                |      | 20-164              | 9   |      | 30            |
| Pentachlorophenol                                                                                        | 65               |      | 80                |      | 9-103               | 21  |      | 30            |
| Phenol                                                                                                   | 61               |      | 62                |      | 12-110              | 2   |      | 30            |
| 2-Methylphenol                                                                                           | 72               |      | 68                |      | 30-130              | 6   |      | 30            |
| 3-Methylphenol/4-Methylphenol                                                                            | 73               |      | 73                |      | 30-130              | 0   |      | 30            |
| 2,4,5-Trichlorophenol                                                                                    | 76               |      | 81                |      | 30-130              | 6   |      | 30            |
| Benzoic Acid                                                                                             | 58               |      | 77                |      | 10-164              | 28  |      | 30            |
| Benzyl Alcohol                                                                                           | 76               |      | 79                |      | 26-116              | 4   |      | 30            |
| Carbazole                                                                                                | 78               |      | 83                |      | 55-144              | 6   |      | 30            |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21

| <b>Parameter</b>                                                                                         | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|----------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1456255-2 WG1456255-3 |                          |             |                           |             |                             |            |             |                       |

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 69                       |             | 68                        |             | 21-120                         |
| Phenol-d6            | 57                       |             | 58                        |             | 10-120                         |
| Nitrobenzene-d5      | 73                       |             | 71                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 71                       |             | 73                        |             | 15-120                         |
| 2,4,6-Tribromophenol | 83                       |             | 87                        |             | 10-120                         |
| 4-Terphenyl-d14      | 67                       |             | 75                        |             | 41-149                         |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456543-2 WG1456543-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                                      | 82               |      | 78                |      | 31-137              | 5   |      | 50            |
| 1,2,4-Trichlorobenzene                                                                                            | 75               |      | 62                |      | 38-107              | 19  |      | 50            |
| Hexachlorobenzene                                                                                                 | 81               |      | 74                |      | 40-140              | 9   |      | 50            |
| Bis(2-chloroethyl)ether                                                                                           | 79               |      | 79                |      | 40-140              | 0   |      | 50            |
| 2-Chloronaphthalene                                                                                               | 86               |      | 93                |      | 40-140              | 8   |      | 50            |
| 1,2-Dichlorobenzene                                                                                               | 69               |      | 69                |      | 40-140              | 0   |      | 50            |
| 1,3-Dichlorobenzene                                                                                               | 69               |      | 67                |      | 40-140              | 3   |      | 50            |
| 1,4-Dichlorobenzene                                                                                               | 66               |      | 69                |      | 28-104              | 4   |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                            | 73               |      | 70                |      | 40-140              | 4   |      | 50            |
| 2,4-Dinitrotoluene                                                                                                | 80               |      | 83                |      | 40-132              | 4   |      | 50            |
| 2,6-Dinitrotoluene                                                                                                | 83               |      | 96                |      | 40-140              | 15  |      | 50            |
| Fluoranthene                                                                                                      | 79               |      | 80                |      | 40-140              | 1   |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                                       | 82               |      | 72                |      | 40-140              | 13  |      | 50            |
| 4-Bromophenyl phenyl ether                                                                                        | 78               |      | 68                |      | 40-140              | 14  |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                                       | 74               |      | 75                |      | 40-140              | 1   |      | 50            |
| Bis(2-chloroethoxy)methane                                                                                        | 91               |      | 68                |      | 40-117              | 29  |      | 50            |
| Hexachlorobutadiene                                                                                               | 66               |      | 68                |      | 40-140              | 3   |      | 50            |
| Hexachlorocyclopentadiene                                                                                         | 61               |      | 74                |      | 40-140              | 19  |      | 50            |
| Hexachloroethane                                                                                                  | 74               |      | 72                |      | 40-140              | 3   |      | 50            |
| Isophorone                                                                                                        | 84               |      | 60                |      | 40-140              | 33  |      | 50            |
| Naphthalene                                                                                                       | 73               |      | 82                |      | 40-140              | 12  |      | 50            |
| Nitrobenzene                                                                                                      | 66               |      | 69                |      | 40-140              | 4   |      | 50            |
| NDPA/DPA                                                                                                          | 88               |      | 77                |      | 36-157              | 13  |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456543-2 WG1456543-3 |                  |      |                   |      |                     |     |      |               |
| n-Nitrosodi-n-propylamine                                                                                         | 71               |      | 66                |      | 32-121              | 7   |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                                        | 102              |      | 98                |      | 40-140              | 4   |      | 50            |
| Butyl benzyl phthalate                                                                                            | 101              |      | 100               |      | 40-140              | 1   |      | 50            |
| Di-n-butylphthalate                                                                                               | 86               |      | 90                |      | 40-140              | 5   |      | 50            |
| Di-n-octylphthalate                                                                                               | 108              |      | 106               |      | 40-140              | 2   |      | 50            |
| Diethyl phthalate                                                                                                 | 79               |      | 81                |      | 40-140              | 3   |      | 50            |
| Dimethyl phthalate                                                                                                | 84               |      | 93                |      | 40-140              | 10  |      | 50            |
| Benzo(a)anthracene                                                                                                | 84               |      | 82                |      | 40-140              | 2   |      | 50            |
| Benzo(a)pyrene                                                                                                    | 86               |      | 86                |      | 40-140              | 0   |      | 50            |
| Benzo(b)fluoranthene                                                                                              | 83               |      | 83                |      | 40-140              | 0   |      | 50            |
| Benzo(k)fluoranthene                                                                                              | 84               |      | 84                |      | 40-140              | 0   |      | 50            |
| Chrysene                                                                                                          | 84               |      | 83                |      | 40-140              | 1   |      | 50            |
| Acenaphthylene                                                                                                    | 82               |      | 92                |      | 40-140              | 11  |      | 50            |
| Anthracene                                                                                                        | 83               |      | 80                |      | 40-140              | 4   |      | 50            |
| Benzo(ghi)perylene                                                                                                | 84               |      | 89                |      | 40-140              | 6   |      | 50            |
| Fluorene                                                                                                          | 75               |      | 77                |      | 40-140              | 3   |      | 50            |
| Phenanthrene                                                                                                      | 85               |      | 82                |      | 40-140              | 4   |      | 50            |
| Dibenzo(a,h)anthracene                                                                                            | 82               |      | 87                |      | 40-140              | 6   |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                            | 85               |      | 89                |      | 40-140              | 5   |      | 50            |
| Pyrene                                                                                                            | 80               |      | 80                |      | 35-142              | 0   |      | 50            |
| Biphenyl                                                                                                          | 88               |      | 95                |      | 37-127              | 8   |      | 50            |
| 4-Chloroaniline                                                                                                   | 75               |      | 83                |      | 40-140              | 10  |      | 50            |
| 2-Nitroaniline                                                                                                    | 97               |      | 105               |      | 47-134              | 8   |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456543-2 WG1456543-3 |                  |      |                   |      |                     |     |      |               |
| 3-Nitroaniline                                                                                                    | 82               |      | 80                |      | 26-129              | 2   |      | 50            |
| 4-Nitroaniline                                                                                                    | 96               |      | 86                |      | 41-125              | 11  |      | 50            |
| Dibenzofuran                                                                                                      | 77               |      | 77                |      | 40-140              | 0   |      | 50            |
| 2-Methylnaphthalene                                                                                               | 64               |      | 88                |      | 40-140              | 32  |      | 50            |
| 1,2,4,5-Tetrachlorobenzene                                                                                        | 73               |      | 89                |      | 40-117              | 20  |      | 50            |
| Acetophenone                                                                                                      | 90               |      | 82                |      | 14-144              | 9   |      | 50            |
| 2,4,6-Trichlorophenol                                                                                             | 90               |      | 96                |      | 30-130              | 6   |      | 50            |
| p-Chloro-m-cresol                                                                                                 | 79               |      | 109               | Q    | 26-103              | 32  |      | 50            |
| 2-Chlorophenol                                                                                                    | 79               |      | 81                |      | 25-102              | 3   |      | 50            |
| 2,4-Dichlorophenol                                                                                                | 88               |      | 69                |      | 30-130              | 24  |      | 50            |
| 2,4-Dimethylphenol                                                                                                | 97               |      | 70                |      | 30-130              | 32  |      | 50            |
| 2-Nitrophenol                                                                                                     | 92               |      | 76                |      | 30-130              | 19  |      | 50            |
| 4-Nitrophenol                                                                                                     | 84               |      | 94                |      | 11-114              | 11  |      | 50            |
| 2,4-Dinitrophenol                                                                                                 | 83               |      | 78                |      | 4-130               | 6   |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                              | 96               |      | 86                |      | 10-130              | 11  |      | 50            |
| Pentachlorophenol                                                                                                 | 101              |      | 86                |      | 17-109              | 16  |      | 50            |
| Phenol                                                                                                            | 80               |      | 82                |      | 26-90               | 2   |      | 50            |
| 2-Methylphenol                                                                                                    | 86               |      | 85                |      | 30-130.             | 1   |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                                     | 91               |      | 90                |      | 30-130              | 1   |      | 50            |
| 2,4,5-Trichlorophenol                                                                                             | 90               |      | 96                |      | 30-130              | 6   |      | 50            |
| Benzoic Acid                                                                                                      | 97               |      | 84                |      | 10-110              | 14  |      | 50            |
| Benzyl Alcohol                                                                                                    | 88               |      | 78                |      | 40-140              | 12  |      | 50            |
| Carbazole                                                                                                         | 85               |      | 84                |      | 54-128              | 1   |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456543-2 WG1456543-3 |                  |      |                   |      |                     |     |      |               |
| 1,4-Dioxane                                                                                                       | 61               |      | 56                |      | 40-140              | 9   |      | 50            |

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 90               |      | 80                |      | 25-120                 |
| Phenol-d6            | 90               |      | 92                |      | 10-120                 |
| Nitrobenzene-d5      | 72               |      | 72                |      | 23-120                 |
| 2-Fluorobiphenyl     | 82               |      | 89                |      | 30-120                 |
| 2,4,6-Tribromophenol | 89               |      | 79                |      | 10-136                 |
| 4-Terphenyl-d14      | 70               |      | 76                |      | 18-120                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1460241-2 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                              | 100              |      | -                 |      | 71-135              | -   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                            | 103              |      | -                 |      | 69-132              | -   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                        | 108              |      | -                 |      | 72-128              | -   |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                             | 103              |      | -                 |      | 70-132              | -   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                            | 100              |      | -                 |      | 71-131              | -   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                       | 103              |      | -                 |      | 67-130              | -   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                              | 101              |      | -                 |      | 69-133              | -   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                          | 106              |      | -                 |      | 64-140              | -   |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                      | 107              |      | -                 |      | 70-132              | -   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                              | 96               |      | -                 |      | 72-129              | -   |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                        | 110              |      | -                 |      | 68-136              | -   |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                              | 103              |      | -                 |      | 69-133              | -   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                          | 130              |      | -                 |      | 65-137              | -   |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                  | 103              |      | -                 |      | 63-144              | -   |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                           | 106              |      | -                 |      | 64-136              | -   |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                        | 114              |      | -                 |      | 59-134              | -   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                          | 101              |      | -                 |      | 67-137              | -   |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                   | 112              |      | -                 |      | 61-139              | -   |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                           | 105              |      | -                 |      | 69-135              | -   |      | 30            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                         | 99               |      | -                 |      | 66-139              | -   |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                         | 112              |      | -                 |      | 69-133              | -   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1460241-2 |                  |      |                   |      |                     |     |      |               |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|-------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 96               |      |                   |      | 61-135                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 105              |      |                   |      | 58-150                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 111              |      |                   |      | 74-139                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 110              |      |                   |      | 66-128                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 105              |      |                   |      | 71-129                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 111              |      |                   |      | 78-139                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 99               |      |                   |      | 75-130                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 63               |      |                   |      | 20-154                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 103              |      |                   |      | 72-140                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 100              |      |                   |      | 79-136                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 99               |      |                   |      | 75-130                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 65               |      |                   |      | 19-175                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 66               |      |                   |      | 31-134                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 100              |      |                   |      | 61-155                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 31               |      |                   |      | 10-117                 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 57               |      |                   |      | 34-137                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 92               |      |                   |      | 54-150                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 70               |      |                   |      | 24-159                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| <b>Parameter</b>                                                                                           | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1460241-2 |                          |             |                           |             |                             |            |             |                       |
| Perfluorooctanesulfonamide (FOSA)                                                                          | 109                      |             | -                         |             | 67-137                      | -          |             | 30                    |

| <b>Surrogate (Extracted Internal Standard)</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|------------------------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)      | 78                       |             |                           |             | 10-117                         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                                                      | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1460241-3 QC Sample: L2102678-05 Client ID: SB-10 (0-2) |               |          |          |              |      |           |               |      |                 |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                  | 0.052J        | 5.42     | 5.40     | 99           | -    | -         | -             | -    | 71-135          | -   | -    | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                                | 0.072J        | 5.42     | 5.64     | 103          | -    | -         | -             | -    | 69-132          | -   | -    | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                            | ND            | 4.81     | 5.30     | 110          | -    | -         | -             | -    | 72-128          | -   | -    | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                                 | ND            | 5.42     | 5.59     | 103          | -    | -         | -             | -    | 70-132          | -   | -    | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                                | 0.050J        | 5.42     | 5.55     | 102          | -    | -         | -             | -    | 71-131          | -   | -    | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                           | ND            | 4.95     | 5.12     | 103          | -    | -         | -             | -    | 67-130          | -   | -    | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                  | 2.39          | 5.42     | 8.29     | 109          | -    | -         | -             | -    | 69-133          | -   | -    | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                              | ND            | 5.16     | 5.80     | 112          | -    | -         | -             | -    | 64-140          | -   | -    | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                          | ND            | 5.16     | 5.96     | 116          | -    | -         | -             | -    | 70-132          | -   | -    | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                  | 0.157J        | 5.42     | 5.22     | 94           | -    | -         | -             | -    | 72-129          | -   | -    | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                            | 0.928         | 5.03     | 6.63     | 113          | -    | -         | -             | -    | 68-136          | -   | -    | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                  | ND            | 5.42     | 5.61     | 104          | -    | -         | -             | -    | 69-133          | -   | -    | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                              | ND            | 5.2      | 5.96F    | 115          | -    | -         | -             | -    | 65-137          | -   | -    | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                      | ND            | 5.42     | 4.99     | 92           | -    | -         | -             | -    | 63-144          | -   | -    | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                               | ND            | 5.42     | 5.76     | 106          | -    | -         | -             | -    | 64-136          | -   | -    | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                            | ND            | 5.22     | 6.59     | 126          | -    | -         | -             | -    | 59-134          | -   | -    | 30         |
| Perfluorooctanesulfonamide (FOSA)                                                                                                                              | ND            | 5.42     | 4.99     | 92           | -    | -         | -             | -    | 67-137          | -   | -    | 30         |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                       | 0.095J        | 5.42     | 5.38     | 98           | -    | -         | -             | -    | 61-139          | -   | -    | 30         |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                               | ND            | 5.42     | 5.90     | 109          | -    | -         | -             | -    | 69-135          | -   | -    | 30         |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                             | ND            | 5.42     | 5.43     | 100          | -    | -         | -             | -    | 66-139          | -   | -    | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                             | ND            | 5.42     | 6.27     | 116          | -    | -         | -             | -    | 69-133          | -   | -    | 30         |



**Matrix Spike Analysis****Batch Quality Control****Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| <b>Parameter</b>                                                                                                                                               | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1460241-3 QC Sample: L2102678-05 Client ID: SB-10 (0-2) |                      |                 |                 |                     |             |                  |                      |             |                        |            |             |                   |

| <b>Surrogate (Extracted Internal Standard)</b>                         | <b>MS % Recovery</b> | <b>MS Qualifier</b> | <b>MSD % Recovery</b> | <b>MSD Qualifier</b> | <b>Acceptance Criteria</b> |
|------------------------------------------------------------------------|----------------------|---------------------|-----------------------|----------------------|----------------------------|
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 78                   |                     |                       |                      | 19-175                     |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 65                   |                     |                       |                      | 20-154                     |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 63                   |                     |                       |                      | 34-137                     |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 76                   |                     |                       |                      | 31-134                     |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 98                   |                     |                       |                      | 61-155                     |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 100                  |                     |                       |                      | 75-130                     |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 109                  |                     |                       |                      | 66-128                     |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 102                  |                     |                       |                      | 71-129                     |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 107                  |                     |                       |                      | 78-139                     |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 90                   |                     |                       |                      | 54-150                     |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 69                   |                     |                       |                      | 24-159                     |
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 97                   |                     |                       |                      | 61-135                     |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 106                  |                     |                       |                      | 58-150                     |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 15                   |                     |                       |                      | 10-117                     |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 97                   |                     |                       |                      | 79-136                     |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 99                   |                     |                       |                      | 75-130                     |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 106                  |                     |                       |                      | 72-140                     |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 109                  |                     |                       |                      | 74-139                     |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                                                     | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                 | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                               | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                           | ND            | ND               | ng/g  | NC  |      | 30         |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                                                             | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                                | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                                                                         | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                               | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                          | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                 | 1.56          | 1.40             | ng/g  | 11  |      | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                             | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                         | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                 | 0.337         | 0.315            | ng/g  | 7   |      | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                           | 0.602         | 0.510            | ng/g  | 17  |      | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                 | ND            | ND               | ng/g  | NC  |      | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                             | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorononanesulfonic Acid (PFNS)                                                                                                                           | ND            | ND               | ng/g  | NC  |      | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                     | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                              | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                           | ND            | ND               | ng/g  | NC  |      | 30         |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                      | 0.144JF       | 0.105J           | ng/g  | NC  |      | 30         |

# **Lab Duplicate Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Parameter                                                                                                                                                     | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                              | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                            | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                            | ND            | ND               | ng/g  | NC  |      | 30         |
| PFOA/PFOS, Total                                                                                                                                              | 2.16          | 1.91             | ng/g  | 12  |      | 30         |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 67        |           | 80        |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 74        |           | 87        |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 79        |           | 89        |           | 74-139              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 58        |           | 67        |           | 14-167              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 77        |           | 90        |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 72        |           | 83        |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 79        |           | 89        |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 68        | Q         | 79        |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 43        |           | 45        |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 71        | Q         | 82        |           | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 65        | Q         | 76        | Q         | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 63        | Q         | 75        |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 44        |           | 54        |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 18        | Q         | 24        | Q         | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 59        | Q         | 72        |           | 61-155              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 18        | Q         | 22        | Q         | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 46        | Q         | 57        |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 17        | Q         | 23        | Q         | 24-159              |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                                                     | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: DUP Sample |               |                  |       |     |      |            |

|                                   |    |    |      |    |  |    |
|-----------------------------------|----|----|------|----|--|----|
| Perfluorooctanesulfonamide (FOSA) | ND | ND | ng/g | NC |  | 30 |
|-----------------------------------|----|----|------|----|--|----|

| Surrogate (Extracted Internal Standard)   | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|-------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 63        |           | 60        |           | 10-117              |

# PCBS

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-01  
**Client ID:** SB-8 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 08:30  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 22:23  
**Analyst:** CW  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/20/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.7 | 3.26 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.7 | 3.68 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.7 | 7.79 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.7 | 4.95 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.7 | 5.51 | 1               | A      |
| Aroclor 1254                                      | 21.4   | J         | ug/kg | 36.7 | 4.02 | 1               | B      |
| Aroclor 1260                                      | 12.4   | J         | ug/kg | 36.7 | 6.79 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.7 | 4.66 | 1               | A      |
| Aroclor 1268                                      | 4.17   | J         | ug/kg | 36.7 | 3.80 | 1               | B      |
| PCBs, Total                                       | 38.0   | J         | ug/kg | 36.7 | 3.26 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 54         |           | 30-150              | A      |
| Decachlorobiphenyl           | 40         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 55         |           | 30-150              | B      |
| Decachlorobiphenyl           | 53         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 01/20/21 22:36  
 Analyst: CW  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 15:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/19/21  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.4 | 3.24 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.4 | 3.65 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.4 | 7.72 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.4 | 4.91 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.4 | 5.46 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.4 | 3.99 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.4 | 6.73 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.4 | 4.63 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.4 | 3.78 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 36.4 | 3.24 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 64         |           | 30-150              | A      |
| Decachlorobiphenyl           | 44         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | B      |
| Decachlorobiphenyl           | 60         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-03  
**Client ID:** SB-9 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 09:40  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 22:48  
**Analyst:** CW  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/20/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.1 | 3.38 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.1 | 3.82 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.1 | 8.08 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.1 | 5.14 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.1 | 5.72 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.1 | 4.17 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.1 | 7.04 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.1 | 4.84 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.1 | 3.95 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.1 | 3.38 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63         |           | 30-150              | A      |
| Decachlorobiphenyl           | 48         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150              | B      |
| Decachlorobiphenyl           | 59         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-04  
**Client ID:** SB-9 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 10:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 23:01  
**Analyst:** CW  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/20/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.1 | 3.38 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.1 | 3.81 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.1 | 8.07 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.1 | 5.13 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.1 | 5.71 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.1 | 4.16 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.1 | 7.04 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.1 | 4.84 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.1 | 3.94 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.1 | 3.38 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 62         |           | 30-150              | A      |
| Decachlorobiphenyl           | 42         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | B      |
| Decachlorobiphenyl           | 58         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-05  
**Client ID:** SB-10 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 10:10  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 23:14  
**Analyst:** CW  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/20/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.7 | 3.44 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.7 | 3.88 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.7 | 8.21 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.7 | 5.22 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.7 | 5.81 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.7 | 4.24 | 1               | A      |
| Aroclor 1260                                      | 8.34   | J         | ug/kg | 38.7 | 7.16 | 1               | B      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.7 | 4.92 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.7 | 4.01 | 1               | A      |
| PCBs, Total                                       | 8.34   | J         | ug/kg | 38.7 | 3.44 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 49         |           | 30-150              | A      |
| Decachlorobiphenyl           | 46         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 49         |           | 30-150              | B      |
| Decachlorobiphenyl           | 59         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-06  
**Client ID:** SB-10 (7-9)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 10:40  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 23:26  
**Analyst:** CW  
**Percent Solids:** 92%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/20/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.2 | 3.22 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.2 | 3.63 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.2 | 7.68 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.2 | 4.88 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.2 | 5.43 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 36.2 | 3.96 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.2 | 6.70 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.2 | 4.60 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.2 | 3.75 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 36.2 | 3.22 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | A      |
| Decachlorobiphenyl           | 50         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 70         |           | 30-150              | B      |
| Decachlorobiphenyl           | 73         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-07  
**Client ID:** SB-13 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 11:30  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 23:39  
**Analyst:** CW  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/19/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 35.2 | 3.13 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 35.2 | 3.53 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 35.2 | 7.47 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 35.2 | 4.75 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 35.2 | 5.28 | 1               | A      |
| Aroclor 1254                                      | 9.13   | J         | ug/kg | 35.2 | 3.85 | 1               | B      |
| Aroclor 1260                                      | ND     |           | ug/kg | 35.2 | 6.51 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 35.2 | 4.48 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 35.2 | 3.65 | 1               | A      |
| PCBs, Total                                       | 9.13   | J         | ug/kg | 35.2 | 3.13 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 51         |           | 30-150              | A      |
| Decachlorobiphenyl           | 40         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 56         |           | 30-150              | B      |
| Decachlorobiphenyl           | 53         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-08  
**Client ID:** SB-13 (17.5-19.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 12:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/20/21 23:52  
**Analyst:** CW  
**Percent Solids:** 92%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/19/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 35.2 | 3.13 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 35.2 | 3.53 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 35.2 | 7.46 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 35.2 | 4.75 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 35.2 | 5.28 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 35.2 | 3.85 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 35.2 | 6.51 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 35.2 | 4.47 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 35.2 | 3.65 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 35.2 | 3.13 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60         |           | 30-150              | A      |
| Decachlorobiphenyl           | 37         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 61         |           | 30-150              | B      |
| Decachlorobiphenyl           | 62         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-09  
**Client ID:** FIELD BLANK  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 08:50  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Field Blank  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:46  
**Analyst:** JAW

**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/19/21 07:26  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/19/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/19/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Aroclor 1016                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | B      |
| Aroclor 1254                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/l  | 0.071 | 0.061 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/l  | 0.071 | 0.061 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 57         |           | 30-150              | A      |
| Decachlorobiphenyl           | 32         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 56         |           | 30-150              | B      |
| Decachlorobiphenyl           | 52         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-11  
**Client ID:** SB-18 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 13:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 00:05  
**Analyst:** CW  
**Percent Solids:** 81%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 15:28  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/19/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 39.7 | 3.52 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 39.7 | 3.98 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 39.7 | 8.42 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 39.7 | 5.35 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 39.7 | 5.96 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 39.7 | 4.34 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 39.7 | 7.34 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 39.7 | 5.04 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 39.7 | 4.11 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 39.7 | 3.52 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52         |           | 30-150              | A      |
| Decachlorobiphenyl           | 32         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 51         |           | 30-150              | B      |
| Decachlorobiphenyl           | 47         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-12  
 Client ID: SB-18 (20-22)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 13:20  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 01/21/21 00:17  
 Analyst: CW  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 15:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/19/21  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/20/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 34.5 | 3.06 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 34.5 | 3.45 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 34.5 | 7.31 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 34.5 | 4.65 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 34.5 | 5.17 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 34.5 | 3.77 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 34.5 | 6.37 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 34.5 | 4.38 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 34.5 | 3.57 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 34.5 | 3.06 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52         |           | 30-150              | A      |
| Decachlorobiphenyl           | 35         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 54         |           | 30-150              | B      |
| Decachlorobiphenyl           | 49         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8082A  
 Analytical Date: 01/18/21 19:00  
 Analyst: AD

Extraction Method: EPA 3510C  
 Extraction Date: 01/18/21 15:46  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/18/21  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/18/21

| Parameter                                                                              | Result | Qualifier | Units | RL    | MDL   | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG1456096-1 |        |           |       |       |       |        |
| Aroclor 1016                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1221                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1232                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1242                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1248                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1254                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1260                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1262                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| Aroclor 1268                                                                           | ND     |           | ug/l  | 0.071 | 0.061 | A      |
| PCBs, Total                                                                            | ND     |           | ug/l  | 0.071 | 0.061 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 89        |           | 30-150              | A      |
| Decachlorobiphenyl           | 60        |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 82        |           | 30-150              | B      |
| Decachlorobiphenyl           | 73        |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8082A  
 Analytical Date: 01/20/21 19:39  
 Analyst: CW

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 15:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/19/21  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/20/21

| Parameter                                                                                       | Result | Qualifier | Units | RL   | MDL  | Column |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456497-1 |        |           |       |      |      |        |
| Aroclor 1016                                                                                    | ND     |           | ug/kg | 31.9 | 2.84 | A      |
| Aroclor 1221                                                                                    | ND     |           | ug/kg | 31.9 | 3.20 | A      |
| Aroclor 1232                                                                                    | ND     |           | ug/kg | 31.9 | 6.77 | A      |
| Aroclor 1242                                                                                    | ND     |           | ug/kg | 31.9 | 4.30 | A      |
| Aroclor 1248                                                                                    | ND     |           | ug/kg | 31.9 | 4.79 | A      |
| Aroclor 1254                                                                                    | ND     |           | ug/kg | 31.9 | 3.49 | A      |
| Aroclor 1260                                                                                    | ND     |           | ug/kg | 31.9 | 5.90 | A      |
| Aroclor 1262                                                                                    | ND     |           | ug/kg | 31.9 | 4.05 | A      |
| Aroclor 1268                                                                                    | ND     |           | ug/kg | 31.9 | 3.31 | A      |
| PCBs, Total                                                                                     | ND     |           | ug/kg | 31.9 | 2.84 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 61        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 73        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 80        |           | 30-150                 | B      |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09 Batch: WG1456096-2 WG1456096-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                              | 118              |      | 90                |      | 40-140              | 27  |      | 50            | A      |
| Aroclor 1260                                                                                              | 94               |      | 76                |      | 40-140              | 20  |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 97               |      | 71                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 83               |      | 64                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 93               |      | 62                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 103              |      | 73                |      | 30-150                 | B      |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456497-2 WG1456497-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                                       | 66               |      | 66                |      | 40-140              | 0   |      | 50            | A      |
| Aroclor 1260                                                                                                       | 60               |      | 61                |      | 40-140              | 2   |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 73               |      | 72                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 66               |      | 69                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 76               |      | 75                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 83               |      | 85                |      | 30-150                 | B      |

# PESTICIDES

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-01  
 Client ID: SB-8 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:30  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 12:05  
 Analyst: SDC  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.72  | 0.336 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.716 | 0.320 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.716 | 0.203 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.72  | 0.652 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.859 | 0.385 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.72  | 0.605 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.22  | 0.967 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.716 | 0.294 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.15  | 0.752 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.72  | 0.442 | 1               | A      |
| Dieldrin                                          | 9.58   |           | ug/kg | 1.07  | 0.537 | 1               | A      |
| 4,4'-DDE                                          | 12.1   |           | ug/kg | 1.72  | 0.397 | 1               | A      |
| 4,4'-DDD                                          | 3.38   | P         | ug/kg | 1.72  | 0.613 | 1               | A      |
| 4,4'-DDT                                          | 10.5   |           | ug/kg | 3.22  | 1.38  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.72  | 0.406 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.72  | 0.574 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.716 | 0.341 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.22  | 1.00  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 32.2  | 9.02  | 1               | A      |
| cis-Chlordane                                     | 5.97   | IP        | ug/kg | 2.15  | 0.599 | 1               | B      |
| trans-Chlordane                                   | 5.25   |           | ug/kg | 2.15  | 0.567 | 1               | A      |
| Chlordane                                         | 84.4   |           | ug/kg | 14.3  | 5.69  | 1               | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-01

Date Collected: 01/18/21 08:30

Client ID: SB-8 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 80         |           | 30-150              | A      |
| Decachlorobiphenyl           | 67         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 83         |           | 30-150              | B      |
| Decachlorobiphenyl           | 96         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-01  
**Client ID:** SB-8 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 08:30  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 15:43  
**Analyst:** AR  
**Percent Solids:** 89%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 185 | 11.7 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 185 | 5.74 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 185 | 4.93 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 87         |           | 30-150              | A      |
| DCAA      | 81         |           | 30-150              | B      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-02  
 Client ID: SB-8 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 12:17  
 Analyst: SDC  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.72  | 0.336 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.715 | 0.320 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.715 | 0.203 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.72  | 0.651 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.858 | 0.385 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.72  | 0.604 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.22  | 0.965 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.715 | 0.293 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.14  | 0.751 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.72  | 0.442 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.07  | 0.536 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.72  | 0.397 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.72  | 0.612 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.22  | 1.38  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.72  | 0.405 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.72  | 0.573 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.715 | 0.340 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.22  | 1.00  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 32.2  | 9.01  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.14  | 0.598 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.14  | 0.566 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.3  | 5.68  | 1               | A      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-02  
**Client ID:** SB-8 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 09:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

| Organochlorine Pesticides by GC - Westborough Lab |  |  |  |  |  |  |  |
|---------------------------------------------------|--|--|--|--|--|--|--|
|---------------------------------------------------|--|--|--|--|--|--|--|

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | A      |
| Decachlorobiphenyl           | 59         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150              | B      |
| Decachlorobiphenyl           | 66         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-02  
**Client ID:** SB-8 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 09:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 16:01  
**Analyst:** AR  
**Percent Solids:** 88%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 187 | 11.8 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 187 | 5.79 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 187 | 4.97 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 86         |           | 30-150              | A      |
| DCAA      | 82         |           | 30-150              | B      |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-03  
 Client ID: SB-9 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 09:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 12:30  
 Analyst: SDC  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.77  | 0.346 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.737 | 0.330 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.737 | 0.209 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.77  | 0.671 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.885 | 0.397 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.77  | 0.623 | 1               | A      |
| Heptachlor epoxide                                | 1.04   | J         | ug/kg | 3.32  | 0.995 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.737 | 0.302 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.21  | 0.774 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.77  | 0.456 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.11  | 0.553 | 1               | A      |
| 4,4'-DDE                                          | 1.38   | J         | ug/kg | 1.77  | 0.409 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.77  | 0.631 | 1               | B      |
| 4,4'-DDT                                          | 4.42   |           | ug/kg | 3.32  | 1.42  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.77  | 0.418 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.77  | 0.591 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.737 | 0.351 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.32  | 1.03  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 33.2  | 9.29  | 1               | A      |
| cis-Chlordane                                     | 4.67   |           | ug/kg | 2.21  | 0.616 | 1               | A      |
| trans-Chlordane                                   | 4.32   |           | ug/kg | 2.21  | 0.584 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.7  | 5.86  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-03

Date Collected: 01/18/21 09:40

Client ID: SB-9 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 73         |           | 30-150              | A      |
| Decachlorobiphenyl           | 68         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 78         |           | 30-150              | B      |
| Decachlorobiphenyl           | 71         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-03  
**Client ID:** SB-9 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 09:40  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 16:20  
**Analyst:** AR  
**Percent Solids:** 87%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 187 | 11.8 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 187 | 5.79 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 187 | 4.97 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 97         |           | 30-150              | A      |
| DCAA      | 85         |           | 30-150              | B      |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-04  
 Client ID: SB-9 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 12:42  
 Analyst: SDC  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.86  | 0.365 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.777 | 0.347 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.777 | 0.221 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.86  | 0.707 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.933 | 0.418 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.86  | 0.657 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.50  | 1.05  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.777 | 0.319 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.33  | 0.816 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.86  | 0.480 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.16  | 0.583 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.86  | 0.431 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.86  | 0.665 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.50  | 1.50  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.86  | 0.441 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.86  | 0.623 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.777 | 0.370 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.50  | 1.09  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.0  | 9.79  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.33  | 0.650 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.33  | 0.616 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.5  | 6.18  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-04

Date Collected: 01/18/21 10:00

Client ID: SB-9 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150              | A      |
| Decachlorobiphenyl           | 57         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150              | B      |
| Decachlorobiphenyl           | 59         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-04  
**Client ID:** SB-9 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 10:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 16:56  
**Analyst:** AR  
**Percent Solids:** 84%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 195 | 12.3 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 195 | 6.05 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 195 | 5.19 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 74         |           | 30-150              | A      |
| DCAA      | 69         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102678-05  
 Client ID: SB-10 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:10  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/21/21 21:48  
 Analyst: AR  
 Percent Solids: 84%  
 Methylation Date: 01/21/21 08:18

Extraction Method: EPA 8151A  
 Extraction Date: 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 195 | 12.3 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 195 | 6.06 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 195 | 5.20 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 90         |           | 30-150              | A      |
| DCAA      | 86         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05 D

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 01/19/21 18:35

Analytical Date: 01/21/21 12:55

Cleanup Method: EPA 3620B

Analyst: SDC

Cleanup Date: 01/21/21

Percent Solids: 84%

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 9.38 | 1.84 | 5               | A      |
| Lindane                                           | ND     |           | ug/kg | 3.91 | 1.75 | 5               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 3.91 | 1.11 | 5               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 9.38 | 3.56 | 5               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 4.69 | 2.10 | 5               | A      |
| Aldrin                                            | ND     |           | ug/kg | 9.38 | 3.30 | 5               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 17.6 | 5.27 | 5               | A      |
| Endrin                                            | ND     |           | ug/kg | 3.91 | 1.60 | 5               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 11.7 | 4.10 | 5               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 9.38 | 2.41 | 5               | A      |
| Dieldrin                                          | 7.48   |           | ug/kg | 5.86 | 2.93 | 5               | B      |
| 4,4'-DDE                                          | 43.6   |           | ug/kg | 9.38 | 2.17 | 5               | A      |
| 4,4'-DDD                                          | 13.3   |           | ug/kg | 9.38 | 3.34 | 5               | B      |
| 4,4'-DDT                                          | 167    |           | ug/kg | 17.6 | 7.54 | 5               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 9.38 | 2.22 | 5               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 9.38 | 3.13 | 5               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 3.91 | 1.86 | 5               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 17.6 | 5.47 | 5               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 176  | 49.2 | 5               | A      |
| cis-Chlordane                                     | 5.59   | J         | ug/kg | 11.7 | 3.27 | 5               | A      |
| trans-Chlordane                                   | 9.44   | J         | ug/kg | 11.7 | 3.09 | 5               | A      |
| Chlordane                                         | ND     |           | ug/kg | 78.1 | 31.1 | 5               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05 D

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70         |           | 30-150              | A      |
| Decachlorobiphenyl           | 56         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 73         |           | 30-150              | B      |
| Decachlorobiphenyl           | 117        |           | 30-150              | B      |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-06  
 Client ID: SB-10 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 10:40  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 13:08  
 Analyst: SDC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.68  | 0.329 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.699 | 0.313 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.699 | 0.199 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.68  | 0.636 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.839 | 0.376 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.68  | 0.591 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.15  | 0.944 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.699 | 0.287 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.10  | 0.734 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.68  | 0.432 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.05  | 0.525 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.68  | 0.388 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.68  | 0.599 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.15  | 1.35  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.68  | 0.397 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.68  | 0.561 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.699 | 0.333 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.15  | 0.979 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 31.5  | 8.81  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.10  | 0.585 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.10  | 0.554 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.0  | 5.56  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-06

Date Collected: 01/18/21 10:40

Client ID: SB-10 (7-9)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60         |           | 30-150              | A      |
| Decachlorobiphenyl           | 51         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | B      |
| Decachlorobiphenyl           | 52         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-06  
**Client ID:** SB-10 (7-9)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 10:40  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 17:14  
**Analyst:** AR  
**Percent Solids:** 92%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 178 | 11.2 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 178 | 5.50 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 178 | 4.72 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 85         |           | 30-150              | A      |
| DCAA      | 80         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-07  
**Client ID:** SB-13 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 11:30  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 17:33  
**Analyst:** AR  
**Percent Solids:** 91%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 178 | 11.2 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 178 | 5.53 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 178 | 4.75 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 76         |           | 30-150              | A      |
| DCAA      | 62         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-07 D

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 01/19/21 18:35

Analytical Date: 01/21/21 13:20

Cleanup Method: EPA 3620B

Analyst: SDC

Cleanup Date: 01/21/21

Percent Solids: 91%

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 17.2 | 3.37 | 10              | A      |
| Lindane                                           | ND     |           | ug/kg | 7.17 | 3.20 | 10              | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 7.17 | 2.04 | 10              | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 17.2 | 6.53 | 10              | A      |
| Heptachlor                                        | ND     |           | ug/kg | 8.60 | 3.86 | 10              | A      |
| Aldrin                                            | ND     |           | ug/kg | 17.2 | 6.06 | 10              | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 32.3 | 9.68 | 10              | A      |
| Endrin                                            | ND     |           | ug/kg | 7.17 | 2.94 | 10              | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 21.5 | 7.53 | 10              | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 17.2 | 4.43 | 10              | A      |
| Dieldrin                                          | ND     |           | ug/kg | 10.8 | 5.38 | 10              | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 17.2 | 3.98 | 10              | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 17.2 | 6.14 | 10              | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 32.3 | 13.8 | 10              | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 17.2 | 4.07 | 10              | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 17.2 | 5.75 | 10              | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 7.17 | 3.41 | 10              | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 32.3 | 10.0 | 10              | A      |
| Toxaphene                                         | ND     |           | ug/kg | 323  | 90.4 | 10              | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 21.5 | 6.00 | 10              | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 21.5 | 5.68 | 10              | A      |
| Chlordane                                         | ND     |           | ug/kg | 143  | 57.0 | 10              | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-07 D

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 84         |           | 30-150              | A      |
| Decachlorobiphenyl           | 51         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 88         |           | 30-150              | B      |
| Decachlorobiphenyl           | 93         |           | 30-150              | B      |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 13:33  
 Analyst: SDC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 19:22  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.65  | 0.323 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.687 | 0.307 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.687 | 0.195 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.65  | 0.625 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.825 | 0.370 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.65  | 0.581 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.09  | 0.928 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.687 | 0.282 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.06  | 0.722 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.65  | 0.425 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.03  | 0.515 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.65  | 0.381 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.65  | 0.588 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.09  | 1.33  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.65  | 0.390 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.65  | 0.551 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.687 | 0.327 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.09  | 0.962 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 30.9  | 8.66  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.06  | 0.575 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.06  | 0.544 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 13.7  | 5.46  | 1               | A      |

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-08

Date Collected: 01/18/21 12:00

Client ID: SB-13 (17.5-19.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 57         |           | 30-150              | A      |
| Decachlorobiphenyl           | 44         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 62         |           | 30-150              | B      |
| Decachlorobiphenyl           | 46         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102678-08  
 Client ID: SB-13 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 12:00  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/21/21 17:51  
 Analyst: AR  
 Percent Solids: 92%  
 Methylation Date: 01/21/21 08:18

Extraction Method: EPA 8151A  
 Extraction Date: 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 176 | 11.1 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 176 | 5.45 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 176 | 4.67 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 85         |           | 30-150              | A      |
| DCAA      | 80         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 19:31  
 Analyst: SDC

Extraction Method: EPA 3510C  
 Extraction Date: 01/25/21 13:48

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Lindane                                           | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Aldrin                                            | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Endrin                                            | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/l  | 0.029 | 0.006 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/l  | 0.029 | 0.004 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/l  | 0.143 | 0.005 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/l  | 0.143 | 0.045 | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/l  | 0.014 | 0.005 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Chlordane                                         | ND     |           | ug/l  | 0.143 | 0.033 | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-09

Date Collected: 01/18/21 08:50

Client ID: FIELD BLANK

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63         |           | 30-150              | A      |
| Decachlorobiphenyl           | 68         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 60         |           | 30-150              | B      |
| Decachlorobiphenyl           | 62         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102678-09  
 Client ID: FIELD BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 08:50  
 Date Received: 01/18/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 1,8151A  
 Analytical Date: 01/21/21 14:12  
 Analyst: AR

Extraction Method: EPA 8151A  
 Extraction Date: 01/20/21 23:02

Methylation Date: 01/21/21 08:11

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |      |      |       |   |   |
|-------------------|----|--|------|------|-------|---|---|
| 2,4-D             | ND |  | ug/l | 10.0 | 0.498 | 1 | A |
| 2,4,5-T           | ND |  | ug/l | 2.00 | 0.531 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/l | 2.00 | 0.539 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 99         |           | 30-150              | A      |
| DCAA      | 88         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-11  
**Client ID:** SB-18 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 13:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 01/21/21 13:45  
**Analyst:** SDC  
**Percent Solids:** 81%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 19:22  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.91  | 0.374 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.796 | 0.356 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.796 | 0.226 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.91  | 0.724 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.955 | 0.428 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.91  | 0.673 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.58  | 1.07  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.796 | 0.326 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.39  | 0.836 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.91  | 0.492 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.19  | 0.597 | 1               | A      |
| 4,4'-DDE                                          | 6.15   |           | ug/kg | 1.91  | 0.442 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.91  | 0.682 | 1               | A      |
| 4,4'-DDT                                          | 5.97   |           | ug/kg | 3.58  | 1.54  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.91  | 0.451 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.91  | 0.638 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.796 | 0.379 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.58  | 1.11  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.8  | 10.0  | 1               | A      |
| cis-Chlordane                                     | 1.03   | JP        | ug/kg | 2.39  | 0.666 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.39  | 0.630 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.9  | 6.33  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | A      |
| Decachlorobiphenyl           | 57         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 67         |           | 30-150              | B      |
| Decachlorobiphenyl           | 62         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-11  
**Client ID:** SB-18 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 13:00  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 18:09  
**Analyst:** AR  
**Percent Solids:** 81%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 199 | 12.5 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 199 | 6.17 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 199 | 5.30 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 87         |           | 30-150              | A      |
| DCAA      | 80         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-12  
**Client ID:** SB-18 (20-22)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 13:20  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 01/21/21 13:58  
**Analyst:** SDC  
**Percent Solids:** 92%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 19:22  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.70  | 0.332 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.707 | 0.316 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.707 | 0.201 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.70  | 0.644 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.849 | 0.380 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.70  | 0.598 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.18  | 0.955 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.707 | 0.290 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.12  | 0.743 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.70  | 0.437 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.06  | 0.530 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.70  | 0.392 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.70  | 0.605 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.18  | 1.36  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.70  | 0.401 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.70  | 0.567 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.707 | 0.337 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.18  | 0.990 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 31.8  | 8.91  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.12  | 0.591 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.12  | 0.560 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.1  | 5.62  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-12

Date Collected: 01/18/21 13:20

Client ID: SB-18 (20-22)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70         |           | 30-150              | A      |
| Decachlorobiphenyl           | 63         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 76         |           | 30-150              | B      |
| Decachlorobiphenyl           | 61         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102678-12  
**Client ID:** SB-18 (20-22)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/18/21 13:20  
**Date Received:** 01/18/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 18:27  
**Analyst:** AR  
**Percent Solids:** 92%  
**Methylation Date:** 01/21/21 08:18

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 177 | 11.2 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 177 | 5.49 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 177 | 4.71 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 82         |           | 30-150              | A      |
| DCAA      | 76         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8081B  
**Analytical Date:** 01/21/21 11:27  
**Analyst:** SDC

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/19/21 18:35  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                                                                       | Result | Qualifier | Units | RL    | MDL   | Column |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456562-1 |        |           |       |       |       |        |
| Delta-BHC                                                                                       | ND     |           | ug/kg | 1.53  | 0.300 | A      |
| Lindane                                                                                         | ND     |           | ug/kg | 0.638 | 0.285 | A      |
| Alpha-BHC                                                                                       | ND     |           | ug/kg | 0.638 | 0.181 | A      |
| Beta-BHC                                                                                        | ND     |           | ug/kg | 1.53  | 0.581 | A      |
| Heptachlor                                                                                      | ND     |           | ug/kg | 0.766 | 0.343 | A      |
| Aldrin                                                                                          | ND     |           | ug/kg | 1.53  | 0.539 | A      |
| Heptachlor epoxide                                                                              | ND     |           | ug/kg | 2.87  | 0.862 | A      |
| Endrin                                                                                          | ND     |           | ug/kg | 0.638 | 0.262 | A      |
| Endrin aldehyde                                                                                 | ND     |           | ug/kg | 1.91  | 0.670 | A      |
| Endrin ketone                                                                                   | ND     |           | ug/kg | 1.53  | 0.394 | A      |
| Dieldrin                                                                                        | ND     |           | ug/kg | 0.957 | 0.479 | A      |
| 4,4'-DDE                                                                                        | ND     |           | ug/kg | 1.53  | 0.354 | A      |
| 4,4'-DDD                                                                                        | ND     |           | ug/kg | 1.53  | 0.546 | A      |
| 4,4'-DDT                                                                                        | ND     |           | ug/kg | 2.87  | 1.23  | A      |
| Endosulfan I                                                                                    | ND     |           | ug/kg | 1.53  | 0.362 | A      |
| Endosulfan II                                                                                   | ND     |           | ug/kg | 1.53  | 0.512 | A      |
| Endosulfan sulfate                                                                              | ND     |           | ug/kg | 0.638 | 0.304 | A      |
| Methoxychlor                                                                                    | ND     |           | ug/kg | 2.87  | 0.893 | A      |
| Toxaphene                                                                                       | ND     |           | ug/kg | 28.7  | 8.04  | A      |
| cis-Chlordane                                                                                   | ND     |           | ug/kg | 1.91  | 0.534 | A      |
| trans-Chlordane                                                                                 | ND     |           | ug/kg | 1.91  | 0.505 | A      |
| Chlordane                                                                                       | ND     |           | ug/kg | 12.8  | 5.07  | A      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8081B  
 Analytical Date: 01/21/21 11:27  
 Analyst: SDC

Extraction Method: EPA 3546  
 Extraction Date: 01/19/21 18:35  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                                                                       | Result | Qualifier | Units | RL | MDL | Column |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456562-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 55        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 82        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 85        |           | 30-150                 | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 11:02  
**Analyst:** AR

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:48

**Methylation Date:** 01/20/21 20:02

| Parameter                                                                                    | Result | Qualifier | Units | RL  | MDL  | Column |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|--------|
| Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-08,11-12 Batch: WG1456660-1 |        |           |       |     |      |        |
| 2,4-D                                                                                        | ND     |           | ug/kg | 163 | 10.3 | A      |
| 2,4,5-T                                                                                      | ND     |           | ug/kg | 163 | 5.06 | A      |
| 2,4,5-TP (Silvex)                                                                            | ND     |           | ug/kg | 163 | 4.35 | A      |

| Surrogate | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|-----------|-----------|------------------------|--------|
| DCAA      | 87        |           | 30-150                 | A      |
| DCAA      | 82        |           | 30-150                 | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 13:17  
**Analyst:** AR

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 23:02

**Methylation Date:** 01/21/21 08:11

| Parameter                                                                           | Result | Qualifier | Units | RL   | MDL   | Column |
|-------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|--------|
| Chlorinated Herbicides by GC - Westborough Lab for sample(s): 09 Batch: WG1457091-1 |        |           |       |      |       |        |
| 2,4-D                                                                               | ND     |           | ug/l  | 10.0 | 0.498 | A      |
| 2,4,5-T                                                                             | ND     |           | ug/l  | 2.00 | 0.531 | A      |
| 2,4,5-TP (Silvex)                                                                   | ND     |           | ug/l  | 2.00 | 0.539 | A      |

| Surrogate | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|-----------|-----------|------------------------|--------|
| DCAA      | 97        |           | 30-150                 | A      |
| DCAA      | 88        |           | 30-150                 | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8081B  
**Analytical Date:** 01/25/21 19:00  
**Analyst:** SDC

**Extraction Method:** EPA 3510C  
**Extraction Date:** 01/25/21 13:48

| Parameter                                                                              | Result | Qualifier | Units | RL    | MDL   | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1458368-1 |        |           |       |       |       |        |
| Delta-BHC                                                                              | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Lindane                                                                                | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Alpha-BHC                                                                              | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Beta-BHC                                                                               | ND     |           | ug/l  | 0.014 | 0.004 | A      |
| Heptachlor                                                                             | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Aldrin                                                                                 | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Heptachlor epoxide                                                                     | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Endrin                                                                                 | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Endrin aldehyde                                                                        | ND     |           | ug/l  | 0.029 | 0.006 | A      |
| Endrin ketone                                                                          | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Dieldrin                                                                               | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| 4,4'-DDE                                                                               | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| 4,4'-DDD                                                                               | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Endosulfan I                                                                           | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Endosulfan II                                                                          | ND     |           | ug/l  | 0.029 | 0.004 | A      |
| Endosulfan sulfate                                                                     | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Methoxychlor                                                                           | ND     |           | ug/l  | 0.143 | 0.005 | A      |
| Toxaphene                                                                              | ND     |           | ug/l  | 0.143 | 0.045 | A      |
| cis-Chlordane                                                                          | ND     |           | ug/l  | 0.014 | 0.005 | A      |
| trans-Chlordane                                                                        | ND     |           | ug/l  | 0.014 | 0.004 | A      |
| Chlordane                                                                              | ND     |           | ug/l  | 0.143 | 0.033 | A      |
| 4,4'-DDT                                                                               | 0.010  | J         | ug/l  | 0.029 | 0.003 | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

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

Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 19:00  
 Analyst: SDC

Extraction Method: EPA 3510C  
 Extraction Date: 01/25/21 13:48

| Parameter                                                                              | Result | Qualifier | Units | RL | MDL | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1458368-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 46        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 53        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 47        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 51        |           | 30-150                 | B      |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456562-2 WG1456562-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                          | 77               |      | 77                |      | 30-150              | 0   |      | 30            | A      |
| Lindane                                                                                                            | 76               |      | 70                |      | 30-150              | 8   |      | 30            | A      |
| Alpha-BHC                                                                                                          | 82               |      | 77                |      | 30-150              | 6   |      | 30            | A      |
| Beta-BHC                                                                                                           | 95               |      | 86                |      | 30-150              | 10  |      | 30            | A      |
| Heptachlor                                                                                                         | 105              |      | 102               |      | 30-150              | 3   |      | 30            | A      |
| Aldrin                                                                                                             | 75               |      | 69                |      | 30-150              | 8   |      | 30            | A      |
| Heptachlor epoxide                                                                                                 | 92               |      | 89                |      | 30-150              | 3   |      | 30            | A      |
| Endrin                                                                                                             | 107              |      | 97                |      | 30-150              | 10  |      | 30            | A      |
| Endrin aldehyde                                                                                                    | 64               |      | 48                |      | 30-150              | 29  |      | 30            | A      |
| Endrin ketone                                                                                                      | 96               |      | 68                |      | 30-150              | 34  | Q    | 30            | A      |
| Dieldrin                                                                                                           | 101              |      | 92                |      | 30-150              | 9   |      | 30            | A      |
| 4,4'-DDE                                                                                                           | 90               |      | 88                |      | 30-150              | 2   |      | 30            | A      |
| 4,4'-DDD                                                                                                           | 107              |      | 93                |      | 30-150              | 14  |      | 30            | A      |
| 4,4'-DDT                                                                                                           | 109              |      | 92                |      | 30-150              | 17  |      | 30            | A      |
| Endosulfan I                                                                                                       | 94               |      | 97                |      | 30-150              | 3   |      | 30            | A      |
| Endosulfan II                                                                                                      | 106              |      | 90                |      | 30-150              | 16  |      | 30            | A      |
| Endosulfan sulfate                                                                                                 | 83               |      | 68                |      | 30-150              | 20  |      | 30            | A      |
| Methoxychlor                                                                                                       | 124              |      | 90                |      | 30-150              | 32  | Q    | 30            | A      |
| cis-Chlordane                                                                                                      | 84               |      | 81                |      | 30-150              | 4   |      | 30            | A      |
| trans-Chlordane                                                                                                    | 104              |      | 91                |      | 30-150              | 13  |      | 30            | A      |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456562-2 WG1456562-3

| <b>Surrogate</b>             | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> | <b>Column</b> |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 70                       |             | 64                        |             | 30-150                         | A             |
| Decachlorobiphenyl           | 80                       |             | 75                        |             | 30-150                         | A             |
| 2,4,5,6-Tetrachloro-m-xylene | 78                       |             | 71                        |             | 30-150                         | B             |
| Decachlorobiphenyl           | 88                       |             | 86                        |             | 30-150                         | B             |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-08,11-12 Batch: WG1456660-2 WG1456660-3 |                  |      |                   |      |                     |     |      |               |        |
| 2,4-D                                                                                                           | 86               |      | 86                |      | 30-150              | 0   |      | 30            | A      |
| 2,4,5-T                                                                                                         | 82               |      | 81                |      | 30-150              | 1   |      | 30            | A      |
| 2,4,5-TP (Silvex)                                                                                               | 81               |      | 80                |      | 30-150              | 1   |      | 30            | A      |

| Surrogate | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|-----------|------------------|------|-------------------|------|------------------------|--------|
| DCAA      | 85               |      | 85                |      | 30-150                 | A      |
| DCAA      | 81               |      | 81                |      | 30-150                 | B      |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1457091-2 WG1457091-3 |                  |      |                   |      |                     |     |      |               |        |
| 2,4-D                                                                                                  | 88               |      | 92                |      | 30-150              | 4   |      | 25            | A      |
| 2,4,5-T                                                                                                | 87               |      | 90                |      | 30-150              | 3   |      | 25            | A      |
| 2,4,5-TP (Silvex)                                                                                      | 85               |      | 89                |      | 30-150              | 5   |      | 25            | A      |

| Surrogate | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|-----------|------------------|------|-------------------|------|------------------------|--------|
| DCAA      | 93               |      | 96                |      | 30-150                 | A      |
| DCAA      | 96               |      | 96                |      | 30-150                 | B      |



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1458368-2 WG1458368-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                 | 38               |      | 32                |      | 30-150              | 15  |      | 20            | A      |
| Lindane                                                                                                   | 52               |      | 46                |      | 30-150              | 12  |      | 20            | A      |
| Alpha-BHC                                                                                                 | 53               |      | 47                |      | 30-150              | 12  |      | 20            | A      |
| Beta-BHC                                                                                                  | 54               |      | 47                |      | 30-150              | 12  |      | 20            | A      |
| Heptachlor                                                                                                | 55               |      | 49                |      | 30-150              | 12  |      | 20            | A      |
| Aldrin                                                                                                    | 52               |      | 45                |      | 30-150              | 13  |      | 20            | A      |
| Heptachlor epoxide                                                                                        | 52               |      | 47                |      | 30-150              | 10  |      | 20            | A      |
| Endrin                                                                                                    | 55               |      | 49                |      | 30-150              | 11  |      | 20            | A      |
| Endrin aldehyde                                                                                           | 50               |      | 43                |      | 30-150              | 16  |      | 20            | A      |
| Endrin ketone                                                                                             | 53               |      | 48                |      | 30-150              | 11  |      | 20            | A      |
| Dieldrin                                                                                                  | 56               |      | 50                |      | 30-150              | 11  |      | 20            | A      |
| 4,4'-DDE                                                                                                  | 52               |      | 47                |      | 30-150              | 11  |      | 20            | A      |
| 4,4'-DDD                                                                                                  | 57               |      | 50                |      | 30-150              | 12  |      | 20            | A      |
| 4,4'-DDT                                                                                                  | 52               |      | 47                |      | 30-150              | 10  |      | 20            | A      |
| Endosulfan I                                                                                              | 52               |      | 47                |      | 30-150              | 11  |      | 20            | A      |
| Endosulfan II                                                                                             | 53               |      | 47                |      | 30-150              | 12  |      | 20            | A      |
| Endosulfan sulfate                                                                                        | 49               |      | 44                |      | 30-150              | 11  |      | 20            | A      |
| Methoxychlor                                                                                              | 59               |      | 53                |      | 30-150              | 10  |      | 20            | A      |
| cis-Chlordane                                                                                             | 49               |      | 44                |      | 30-150              | 10  |      | 20            | A      |
| trans-Chlordane                                                                                           | 52               |      | 47                |      | 30-150              | 10  |      | 20            | A      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1458368-2 WG1458368-3

| <b>Surrogate</b>             | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> | <b>Column</b> |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 51                       |             | 44                        |             | 30-150                         | A             |
| Decachlorobiphenyl           | 57                       |             | 52                        |             | 30-150                         | A             |
| 2,4,5,6-Tetrachloro-m-xylene | 51                       |             | 43                        |             | 30-150                         | B             |
| Decachlorobiphenyl           | 54                       |             | 49                        |             | 30-150                         | B             |

## METALS

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-01

Date Collected: 01/18/21 08:30

Client ID: SB-8 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 2570   |           | mg/kg | 8.95  | 2.42  | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 1.89   | J         | mg/kg | 4.47  | 0.340 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 3.31   |           | mg/kg | 0.895 | 0.186 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 23.9   |           | mg/kg | 0.895 | 0.156 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.170  | J         | mg/kg | 0.447 | 0.030 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.644  | J         | mg/kg | 0.895 | 0.088 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 1230   |           | mg/kg | 8.95  | 3.13  | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 91.6   |           | mg/kg | 0.895 | 0.086 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 60.5   |           | mg/kg | 1.79  | 0.148 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 9.99   |           | mg/kg | 0.895 | 0.231 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 27400  |           | mg/kg | 4.47  | 0.808 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 3.38   | J         | mg/kg | 4.47  | 0.240 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 99600  |           | mg/kg | 89.5  | 13.8  | 20              | 01/19/21 20:15 | 01/20/21 16:39 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 543    |           | mg/kg | 0.895 | 0.142 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Mercury, Total               | ND     |           | mg/kg | 0.079 | 0.051 | 1               | 01/19/21 20:43 | 01/25/21 09:22 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 1280   |           | mg/kg | 2.24  | 0.216 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 471    |           | mg/kg | 224   | 12.9  | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | 0.233  | J         | mg/kg | 1.79  | 0.231 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.895 | 0.253 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 88.8   | J         | mg/kg | 179   | 2.82  | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 1.12   | J         | mg/kg | 1.79  | 0.282 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 13.0   |           | mg/kg | 0.895 | 0.182 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 25.8   |           | mg/kg | 4.47  | 0.262 | 2               | 01/19/21 20:15 | 01/20/21 09:50 | EPA 3050B   | 1,6010D           | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-02

Date Collected: 01/18/21 09:00

Client ID: SB-8 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 84.5   |           | mg/kg | 8.58  | 2.32  | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 2.26   | J         | mg/kg | 4.29  | 0.326 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 2.37   |           | mg/kg | 0.858 | 0.178 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 23.1   |           | mg/kg | 0.858 | 0.149 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | ND     |           | mg/kg | 0.429 | 0.028 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.824  | J         | mg/kg | 0.858 | 0.084 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 338    |           | mg/kg | 8.58  | 3.00  | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 119    |           | mg/kg | 0.858 | 0.082 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 81.0   |           | mg/kg | 1.72  | 0.142 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | ND     |           | mg/kg | 0.858 | 0.221 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 36500  |           | mg/kg | 4.29  | 0.775 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | ND     |           | mg/kg | 4.29  | 0.230 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 140000 |           | mg/kg | 8.58  | 1.32  | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 1920   |           | mg/kg | 0.858 | 0.136 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Mercury, Total               | ND     |           | mg/kg | 0.081 | 0.053 | 1               | 01/19/21 20:43 | 01/25/21 09:26 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 1620   |           | mg/kg | 2.14  | 0.208 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | ND     |           | mg/kg | 214   | 12.4  | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.72  | 0.221 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.858 | 0.243 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 44.0   | J         | mg/kg | 172   | 2.70  | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 3.75   |           | mg/kg | 1.72  | 0.270 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 3.13   |           | mg/kg | 0.858 | 0.174 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 10.1   |           | mg/kg | 4.29  | 0.251 | 2               | 01/19/21 20:15 | 01/20/21 09:54 | EPA 3050B   | 1,6010D           | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-03

Date Collected: 01/18/21 09:40

Client ID: SB-9 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 2250   |           | mg/kg | 8.76  | 2.36  | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 1.33   | J         | mg/kg | 4.38  | 0.333 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 5.97   |           | mg/kg | 0.876 | 0.182 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 41.8   |           | mg/kg | 0.876 | 0.152 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.193  | J         | mg/kg | 0.438 | 0.029 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.683  | J         | mg/kg | 0.876 | 0.086 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 1470   |           | mg/kg | 8.76  | 3.06  | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 46.2   |           | mg/kg | 0.876 | 0.084 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 49.0   |           | mg/kg | 1.75  | 0.145 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 13.0   |           | mg/kg | 0.876 | 0.226 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 27400  |           | mg/kg | 4.38  | 0.791 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 44.7   |           | mg/kg | 4.38  | 0.235 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 96200  |           | mg/kg | 87.6  | 13.5  | 20              | 01/19/21 20:15 | 01/20/21 15:44 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 854    |           | mg/kg | 0.876 | 0.139 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Mercury, Total               | ND     |           | mg/kg | 0.077 | 0.050 | 1               | 01/19/21 20:43 | 01/25/21 09:29 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 1050   |           | mg/kg | 2.19  | 0.212 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 473    |           | mg/kg | 219   | 12.6  | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.75  | 0.226 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.876 | 0.248 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 69.6   | J         | mg/kg | 175   | 2.76  | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 1.49   | J         | mg/kg | 1.75  | 0.276 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 13.9   |           | mg/kg | 0.876 | 0.178 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 42.7   |           | mg/kg | 4.38  | 0.256 | 2               | 01/19/21 20:15 | 01/20/21 09:59 | EPA 3050B   | 1,6010D           | GD      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-04

Date Collected: 01/18/21 10:00

Client ID: SB-9 (6.5-8.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 1750   |           | mg/kg | 9.41  | 2.54  | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 0.744  | J         | mg/kg | 4.71  | 0.358 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 1.26   |           | mg/kg | 0.941 | 0.196 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 10.7   |           | mg/kg | 0.941 | 0.164 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.122  | J         | mg/kg | 0.471 | 0.031 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.330  | J         | mg/kg | 0.941 | 0.092 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 652    |           | mg/kg | 9.41  | 3.30  | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 19.3   |           | mg/kg | 0.941 | 0.090 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 17.7   |           | mg/kg | 1.88  | 0.156 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 6.84   |           | mg/kg | 0.941 | 0.243 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 12700  |           | mg/kg | 4.71  | 0.850 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 2.87   | J         | mg/kg | 4.71  | 0.252 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 25000  |           | mg/kg | 9.41  | 1.45  | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 239    |           | mg/kg | 0.941 | 0.150 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Mercury, Total               | ND     |           | mg/kg | 0.075 | 0.049 | 1               | 01/19/21 20:43 | 01/25/21 09:32 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 454    |           | mg/kg | 2.35  | 0.228 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 330    |           | mg/kg | 235   | 13.6  | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.88  | 0.243 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.941 | 0.266 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 59.3   | J         | mg/kg | 188   | 2.96  | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 0.433  | J         | mg/kg | 1.88  | 0.296 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 9.07   |           | mg/kg | 0.941 | 0.191 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 16.1   |           | mg/kg | 4.71  | 0.276 | 2               | 01/19/21 20:15 | 01/20/21 10:04 | EPA 3050B   | 1,6010D           | GD      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-05

Date Collected: 01/18/21 10:10

Client ID: SB-10 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 1810   |           | mg/kg | 9.21  | 2.49  | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 2.84   | J         | mg/kg | 4.60  | 0.350 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 17.4   |           | mg/kg | 0.921 | 0.192 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 234    |           | mg/kg | 0.921 | 0.160 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.101  | J         | mg/kg | 0.460 | 0.030 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 2.02   |           | mg/kg | 0.921 | 0.090 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 89200  |           | mg/kg | 9.21  | 3.22  | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 11.7   |           | mg/kg | 0.921 | 0.088 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 8.03   |           | mg/kg | 1.84  | 0.153 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 14.1   |           | mg/kg | 0.921 | 0.238 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 34400  |           | mg/kg | 4.60  | 0.832 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 1420   |           | mg/kg | 4.60  | 0.247 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 6050   |           | mg/kg | 9.21  | 1.42  | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 179    |           | mg/kg | 0.921 | 0.146 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Mercury, Total               | 1.05   |           | mg/kg | 0.076 | 0.050 | 1               | 01/19/21 20:43 | 01/25/21 09:36 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 74.5   |           | mg/kg | 2.30  | 0.223 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 280    |           | mg/kg | 230   | 13.3  | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | 0.884  | J         | mg/kg | 1.84  | 0.238 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.921 | 0.261 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 225    |           | mg/kg | 184   | 2.90  | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 0.470  | J         | mg/kg | 1.84  | 0.290 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 11.1   |           | mg/kg | 0.921 | 0.187 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 1080   |           | mg/kg | 4.60  | 0.270 | 2               | 01/19/21 20:15 | 01/20/21 10:09 | EPA 3050B   | 1,6010D           | GD      |





**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-06

Date Collected: 01/18/21 10:40

Client ID: SB-10 (7-9)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 4050   |           | mg/kg | 8.49  | 2.29  | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 2.99   | J         | mg/kg | 4.24  | 0.322 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 3.53   |           | mg/kg | 0.849 | 0.176 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 10.3   |           | mg/kg | 0.849 | 0.148 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.178  | J         | mg/kg | 0.424 | 0.028 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.263  | J         | mg/kg | 0.849 | 0.083 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 413    |           | mg/kg | 8.49  | 2.97  | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 6.20   |           | mg/kg | 0.849 | 0.082 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 4.84   |           | mg/kg | 1.70  | 0.141 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 4.96   |           | mg/kg | 0.849 | 0.219 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 9830   |           | mg/kg | 4.24  | 0.766 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 6.17   |           | mg/kg | 4.24  | 0.227 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 1550   |           | mg/kg | 8.49  | 1.31  | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 104    |           | mg/kg | 0.849 | 0.135 | 2               | 01/19/21 20:15 | 01/20/21 17:02 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.079 | 0.051 | 1               | 01/19/21 20:43 | 01/25/21 09:39 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 16.4   |           | mg/kg | 2.12  | 0.205 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 188    | J         | mg/kg | 212   | 12.2  | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.70  | 0.219 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.849 | 0.240 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 26.5   | J         | mg/kg | 170   | 2.67  | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | ND     |           | mg/kg | 1.70  | 0.267 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 9.38   |           | mg/kg | 0.849 | 0.172 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 26.1   |           | mg/kg | 4.24  | 0.249 | 2               | 01/19/21 20:15 | 01/20/21 10:54 | EPA 3050B   | 1,6010D           | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-07

Date Collected: 01/18/21 11:30

Client ID: SB-13 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 4330   |           | mg/kg | 8.57  | 2.32  | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 2.14   | J         | mg/kg | 4.29  | 0.326 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 5.18   |           | mg/kg | 0.857 | 0.178 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 54.3   |           | mg/kg | 0.857 | 0.149 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.274  | J         | mg/kg | 0.429 | 0.028 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.943  |           | mg/kg | 0.857 | 0.084 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 3200   |           | mg/kg | 8.57  | 3.00  | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 40.0   |           | mg/kg | 0.857 | 0.082 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 21.9   |           | mg/kg | 1.71  | 0.142 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 30.8   |           | mg/kg | 0.857 | 0.221 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 16300  |           | mg/kg | 4.29  | 0.774 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 222    |           | mg/kg | 4.29  | 0.230 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 21400  |           | mg/kg | 8.57  | 1.32  | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 277    |           | mg/kg | 0.857 | 0.136 | 2               | 01/19/21 20:15 | 01/20/21 17:07 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.158  |           | mg/kg | 0.073 | 0.047 | 1               | 01/19/21 20:43 | 01/25/21 09:42 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 390    |           | mg/kg | 2.14  | 0.208 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 623    |           | mg/kg | 214   | 12.3  | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | 0.232  | J         | mg/kg | 1.71  | 0.221 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.857 | 0.243 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 78.2   | J         | mg/kg | 171   | 2.70  | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 0.463  | J         | mg/kg | 1.71  | 0.270 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 20.9   |           | mg/kg | 0.857 | 0.174 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 149    |           | mg/kg | 4.29  | 0.251 | 2               | 01/19/21 20:15 | 01/20/21 10:59 | EPA 3050B   | 1,6010D           | GD      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-08

Date Collected: 01/18/21 12:00

Client ID: SB-13 (17.5-19.5)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 1410   |           | mg/kg | 8.41  | 2.27  | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 1.51   | J         | mg/kg | 4.20  | 0.319 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 4.48   |           | mg/kg | 0.841 | 0.175 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 13.7   |           | mg/kg | 0.841 | 0.146 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.101  | J         | mg/kg | 0.420 | 0.028 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.462  | J         | mg/kg | 0.841 | 0.082 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 798    |           | mg/kg | 8.41  | 2.94  | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 115    |           | mg/kg | 0.841 | 0.081 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 56.1   |           | mg/kg | 1.68  | 0.140 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 4.72   |           | mg/kg | 0.841 | 0.217 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 19700  |           | mg/kg | 4.20  | 0.759 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 1.87   | J         | mg/kg | 4.20  | 0.225 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 118000 |           | mg/kg | 84.1  | 12.9  | 20              | 01/19/21 20:15 | 01/20/21 15:49 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 651    |           | mg/kg | 8.41  | 1.34  | 20              | 01/19/21 20:15 | 01/20/21 15:49 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.072 | 0.047 | 1               | 01/19/21 20:43 | 01/25/21 09:45 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 1490   |           | mg/kg | 2.10  | 0.203 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 300    |           | mg/kg | 210   | 12.1  | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.68  | 0.217 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.841 | 0.238 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 47.4   | J         | mg/kg | 168   | 2.65  | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 1.01   | J         | mg/kg | 1.68  | 0.265 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 5.85   |           | mg/kg | 0.841 | 0.171 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 16.3   |           | mg/kg | 4.20  | 0.246 | 2               | 01/19/21 20:15 | 01/20/21 11:04 | EPA 3050B   | 1,6010D           | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102678-09

Date Collected: 01/18/21 08:50

Client ID: FIELD BLANK

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank

| Parameter                    | Result | Qualifier | Units | RL      | MDL     | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|---------|---------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |         |         |                 |                |                |             |                   |         |
| Aluminum, Total              | 0.038  | J         | mg/l  | 0.100   | 0.032   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Antimony, Total              | ND     |           | mg/l  | 0.050   | 0.007   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Arsenic, Total               | ND     |           | mg/l  | 0.005   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Barium, Total                | ND     |           | mg/l  | 0.010   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Beryllium, Total             | ND     |           | mg/l  | 0.005   | 0.001   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Cadmium, Total               | ND     |           | mg/l  | 0.005   | 0.001   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Calcium, Total               | ND     |           | mg/l  | 0.100   | 0.035   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Chromium, Total              | ND     |           | mg/l  | 0.010   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Cobalt, Total                | ND     |           | mg/l  | 0.020   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Copper, Total                | ND     |           | mg/l  | 0.010   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Iron, Total                  | ND     |           | mg/l  | 0.050   | 0.009   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Lead, Total                  | ND     |           | mg/l  | 0.010   | 0.003   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Magnesium, Total             | ND     |           | mg/l  | 0.100   | 0.015   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Manganese, Total             | ND     |           | mg/l  | 0.010   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Mercury, Total               | ND     |           | mg/l  | 0.00020 | 0.00009 | 1               | 01/21/21 09:54 | 01/25/21 12:49 | EPA 7470A   | 1,7470A           | VW      |
| Nickel, Total                | ND     |           | mg/l  | 0.025   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Potassium, Total             | ND     |           | mg/l  | 2.50    | 0.237   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Selenium, Total              | ND     |           | mg/l  | 0.010   | 0.004   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Silver, Total                | ND     |           | mg/l  | 0.007   | 0.003   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Sodium, Total                | ND     |           | mg/l  | 2.00    | 0.120   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Thallium, Total              | 0.003  | J         | mg/l  | 0.020   | 0.003   | 1               | 01/21/21 09:20 | 01/22/21 18:24 | EPA 3005A   | 1,6010D           | EW      |
| Vanadium, Total              | ND     |           | mg/l  | 0.010   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |
| Zinc, Total                  | ND     |           | mg/l  | 0.050   | 0.002   | 1               | 01/21/21 09:20 | 01/22/21 13:02 | EPA 3005A   | 1,6010D           | EW      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-11

Date Collected: 01/18/21 13:00

Client ID: SB-18 (0-2)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 7110   |           | mg/kg | 9.46  | 2.56  | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 1.79   | J         | mg/kg | 4.73  | 0.360 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 8.42   |           | mg/kg | 0.946 | 0.197 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 115    |           | mg/kg | 0.946 | 0.165 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.416  | J         | mg/kg | 0.473 | 0.031 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.918  | J         | mg/kg | 0.946 | 0.093 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 2970   |           | mg/kg | 9.46  | 3.31  | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 39.3   |           | mg/kg | 0.946 | 0.091 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 24.9   |           | mg/kg | 1.89  | 0.157 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 74.3   |           | mg/kg | 0.946 | 0.244 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 20300  |           | mg/kg | 4.73  | 0.855 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 320    |           | mg/kg | 4.73  | 0.254 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 14200  |           | mg/kg | 9.46  | 1.46  | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 432    |           | mg/kg | 0.946 | 0.150 | 2               | 01/19/21 20:15 | 01/20/21 17:12 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.206  |           | mg/kg | 0.077 | 0.050 | 1               | 01/19/21 20:43 | 01/25/21 09:55 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 314    |           | mg/kg | 2.37  | 0.229 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 719    |           | mg/kg | 237   | 13.6  | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | ND     |           | mg/kg | 1.89  | 0.244 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.946 | 0.268 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 65.8   | J         | mg/kg | 189   | 2.98  | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 0.520  | J         | mg/kg | 1.89  | 0.298 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 35.3   |           | mg/kg | 0.946 | 0.192 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 204    |           | mg/kg | 4.73  | 0.277 | 2               | 01/19/21 20:15 | 01/20/21 11:08 | EPA 3050B   | 1,6010D           | GD      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102678-12

Date Collected: 01/18/21 13:20

Client ID: SB-18 (20-22)

Date Received: 01/18/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 2970   |           | mg/kg | 8.47  | 2.29  | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Antimony, Total              | 1.15   | J         | mg/kg | 4.23  | 0.322 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Arsenic, Total               | 7.50   |           | mg/kg | 0.847 | 0.176 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Barium, Total                | 24.4   |           | mg/kg | 0.847 | 0.147 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Beryllium, Total             | 0.212  | J         | mg/kg | 0.423 | 0.028 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Cadmium, Total               | 0.517  | J         | mg/kg | 0.847 | 0.083 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Calcium, Total               | 3400   |           | mg/kg | 8.47  | 2.96  | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Chromium, Total              | 52.7   |           | mg/kg | 0.847 | 0.081 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Cobalt, Total                | 36.0   |           | mg/kg | 1.69  | 0.140 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Copper, Total                | 16.2   |           | mg/kg | 0.847 | 0.218 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Iron, Total                  | 20700  |           | mg/kg | 4.23  | 0.765 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Lead, Total                  | 15.2   |           | mg/kg | 4.23  | 0.227 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Magnesium, Total             | 69700  |           | mg/kg | 84.7  | 13.0  | 20              | 01/19/21 20:15 | 01/20/21 16:35 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 428    |           | mg/kg | 8.47  | 1.35  | 20              | 01/19/21 20:15 | 01/20/21 16:35 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.073 | 0.047 | 1               | 01/19/21 20:43 | 01/25/21 09:59 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 790    |           | mg/kg | 2.12  | 0.205 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Potassium, Total             | 1000   |           | mg/kg | 212   | 12.2  | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Selenium, Total              | 0.262  | J         | mg/kg | 1.69  | 0.218 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Silver, Total                | ND     |           | mg/kg | 0.847 | 0.240 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Sodium, Total                | 141    | J         | mg/kg | 169   | 2.67  | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Thallium, Total              | 0.678  | J         | mg/kg | 1.69  | 0.267 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Vanadium, Total              | 19.3   |           | mg/kg | 0.847 | 0.172 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |
| Zinc, Total                  | 39.4   |           | mg/kg | 4.23  | 0.248 | 2               | 01/19/21 20:15 | 01/20/21 11:13 | EPA 3050B   | 1,6010D           | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## Method Blank Analysis Batch Quality Control

| Parameter                                                                  | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-08,11-12 Batch: WG1456445-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Mercury, Total                                                             | ND     |           | mg/kg | 0.083 | 0.054 | 1                  | 01/19/21 20:43   | 01/20/21 10:46   | 1,7471B              | VW      |

### Prep Information

Digestion Method: EPA 7471B

| Parameter                                                                  | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-08,11-12 Batch: WG1456447-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Aluminum, Total                                                            | ND     |           | mg/kg | 4.00  | 1.08  | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Antimony, Total                                                            | ND     |           | mg/kg | 2.00  | 0.152 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Arsenic, Total                                                             | ND     |           | mg/kg | 0.400 | 0.083 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Barium, Total                                                              | ND     |           | mg/kg | 0.400 | 0.070 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Beryllium, Total                                                           | ND     |           | mg/kg | 0.200 | 0.013 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Cadmium, Total                                                             | ND     |           | mg/kg | 0.400 | 0.039 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Calcium, Total                                                             | ND     |           | mg/kg | 4.00  | 1.40  | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Chromium, Total                                                            | 0.052  | J         | mg/kg | 0.400 | 0.038 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Cobalt, Total                                                              | ND     |           | mg/kg | 0.800 | 0.066 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Copper, Total                                                              | ND     |           | mg/kg | 0.400 | 0.103 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Iron, Total                                                                | 0.460  | J         | mg/kg | 2.00  | 0.361 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Lead, Total                                                                | ND     |           | mg/kg | 2.00  | 0.107 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Magnesium, Total                                                           | ND     |           | mg/kg | 4.00  | 0.616 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Manganese, Total                                                           | ND     |           | mg/kg | 0.400 | 0.064 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Nickel, Total                                                              | ND     |           | mg/kg | 1.00  | 0.097 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Potassium, Total                                                           | ND     |           | mg/kg | 100   | 5.76  | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Selenium, Total                                                            | ND     |           | mg/kg | 0.800 | 0.103 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Silver, Total                                                              | ND     |           | mg/kg | 0.400 | 0.113 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Sodium, Total                                                              | 6.00   | J         | mg/kg | 80.0  | 1.26  | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Thallium, Total                                                            | ND     |           | mg/kg | 0.800 | 0.126 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Vanadium, Total                                                            | ND     |           | mg/kg | 0.400 | 0.081 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |
| Zinc, Total                                                                | ND     |           | mg/kg | 2.00  | 0.117 | 1                  | 01/19/21 20:15   | 01/20/21 08:59   | 1,6010D              | GD      |



Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 3050B

| Parameter                                                         | Result Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------------------------------------|------------------|-------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1457237-1 |                  |       |       |       |                 |                |                |                   |         |
| Aluminum, Total                                                   | ND               | mg/l  | 0.100 | 0.032 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Antimony, Total                                                   | ND               | mg/l  | 0.050 | 0.007 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Arsenic, Total                                                    | ND               | mg/l  | 0.005 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Barium, Total                                                     | ND               | mg/l  | 0.010 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Beryllium, Total                                                  | ND               | mg/l  | 0.005 | 0.001 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Cadmium, Total                                                    | ND               | mg/l  | 0.005 | 0.001 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Calcium, Total                                                    | ND               | mg/l  | 0.100 | 0.035 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Chromium, Total                                                   | ND               | mg/l  | 0.010 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Cobalt, Total                                                     | ND               | mg/l  | 0.020 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Copper, Total                                                     | ND               | mg/l  | 0.010 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Iron, Total                                                       | ND               | mg/l  | 0.050 | 0.009 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Lead, Total                                                       | ND               | mg/l  | 0.010 | 0.003 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Magnesium, Total                                                  | ND               | mg/l  | 0.100 | 0.015 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Manganese, Total                                                  | ND               | mg/l  | 0.010 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Nickel, Total                                                     | ND               | mg/l  | 0.025 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Potassium, Total                                                  | ND               | mg/l  | 2.50  | 0.237 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Selenium, Total                                                   | ND               | mg/l  | 0.010 | 0.004 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Silver, Total                                                     | ND               | mg/l  | 0.007 | 0.003 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Sodium, Total                                                     | ND               | mg/l  | 2.00  | 0.120 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Thallium, Total                                                   | ND               | mg/l  | 0.020 | 0.003 | 1               | 01/21/21 09:20 | 01/22/21 18:06 | 1,6010D           | EW      |
| Vanadium, Total                                                   | ND               | mg/l  | 0.010 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |
| Zinc, Total                                                       | ND               | mg/l  | 0.050 | 0.002 | 1               | 01/21/21 09:20 | 01/22/21 12:43 | 1,6010D           | EW      |

### Prep Information

Digestion Method: EPA 3005A





Project Name: LIBERTY TOWERS

Lab Number: L2102678

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## Method Blank Analysis Batch Quality Control

| Parameter                                                         | Result | Qualifier | Units | RL      | MDL     | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------------------------------------|--------|-----------|-------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1457244-1 |        |           |       |         |         |                    |                  |                  |                      |         |
| Mercury, Total                                                    | ND     |           | mg/l  | 0.00020 | 0.00009 | 1                  | 01/21/21 09:54   | 01/25/21 12:36   | 1,7470A              | VW      |

### Prep Information

Digestion Method: EPA 7470A

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 Batch: WG1456445-2 SRM Lot Number: D109-540 |                  |      |                   |      |                     |     |      |            |
| Mercury, Total                                                                                             | 87               |      | -                 |      | 60-140              | -   |      |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 Batch: WG1456447-2 SRM Lot Number: D109-540 |                  |                   |                     |     |            |
| Aluminum, Total                                                                                            | 50               | -                 | 50-150              | -   |            |
| Antimony, Total                                                                                            | 125              | -                 | 19-250              | -   |            |
| Arsenic, Total                                                                                             | 81               | -                 | 70-130              | -   |            |
| Barium, Total                                                                                              | 79               | -                 | 75-125              | -   |            |
| Beryllium, Total                                                                                           | 81               | -                 | 75-125              | -   |            |
| Cadmium, Total                                                                                             | 90               | -                 | 75-125              | -   |            |
| Calcium, Total                                                                                             | 84               | -                 | 73-128              | -   |            |
| Chromium, Total                                                                                            | 79               | -                 | 70-130              | -   |            |
| Cobalt, Total                                                                                              | 88               | -                 | 75-125              | -   |            |
| Copper, Total                                                                                              | 81               | -                 | 75-125              | -   |            |
| Iron, Total                                                                                                | 61               | -                 | 35-165              | -   |            |
| Lead, Total                                                                                                | 74               | -                 | 72-128              | -   |            |
| Magnesium, Total                                                                                           | 68               | -                 | 62-138              | -   |            |
| Manganese, Total                                                                                           | 76               | -                 | 74-126              | -   |            |
| Nickel, Total                                                                                              | 86               | -                 | 70-130              | -   |            |
| Potassium, Total                                                                                           | 66               | -                 | 59-141              | -   |            |
| Selenium, Total                                                                                            | 89               | -                 | 68-132              | -   |            |
| Silver, Total                                                                                              | 74               | -                 | 68-131              | -   |            |
| Sodium, Total                                                                                              | 95               | -                 | 35-165              | -   |            |
| Thallium, Total                                                                                            | 84               | -                 | 68-131              | -   |            |
| Vanadium, Total                                                                                            | 75               | -                 | 59-141              | -   |            |

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 Batch: WG1456447-2 SRM Lot Number: D109-540 |                  |                   |                     |     |            |
| Zinc, Total                                                                                                | 81               | -                 | 70-130              | -   |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|--------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1457237-2 |                  |                   |                     |     |            |
| Aluminum, Total                                                          | 100              | -                 | 80-120              | -   |            |
| Antimony, Total                                                          | 101              | -                 | 80-120              | -   |            |
| Arsenic, Total                                                           | 113              | -                 | 80-120              | -   |            |
| Barium, Total                                                            | 106              | -                 | 80-120              | -   |            |
| Beryllium, Total                                                         | 105              | -                 | 80-120              | -   |            |
| Cadmium, Total                                                           | 110              | -                 | 80-120              | -   |            |
| Calcium, Total                                                           | 105              | -                 | 80-120              | -   |            |
| Chromium, Total                                                          | 104              | -                 | 80-120              | -   |            |
| Cobalt, Total                                                            | 103              | -                 | 80-120              | -   |            |
| Copper, Total                                                            | 106              | -                 | 80-120              | -   |            |
| Iron, Total                                                              | 102              | -                 | 80-120              | -   |            |
| Lead, Total                                                              | 109              | -                 | 80-120              | -   |            |
| Magnesium, Total                                                         | 104              | -                 | 80-120              | -   |            |
| Manganese, Total                                                         | 102              | -                 | 80-120              | -   |            |
| Nickel, Total                                                            | 101              | -                 | 80-120              | -   |            |
| Potassium, Total                                                         | 102              | -                 | 80-120              | -   |            |
| Selenium, Total                                                          | 113              | -                 | 80-120              | -   |            |
| Silver, Total                                                            | 106              | -                 | 80-120              | -   |            |
| Sodium, Total                                                            | 106              | -                 | 80-120              | -   |            |
| Thallium, Total                                                          | 104              | -                 | 80-120              | -   |            |
| Vanadium, Total                                                          | 103              | -                 | 80-120              | -   |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|--------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1457237-2 |                  |                   |                     |     |            |
| Zinc, Total                                                              | 109              | -                 | 80-120              | -   |            |
| Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1457244-2 |                  |                   |                     |     |            |
| Mercury, Total                                                           | 96               | -                 | 80-120              | -   |            |

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102678

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                                                    | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12    QC Batch ID: WG1456445-3    QC Sample: L2102676-01    Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Mercury, Total                                                                                                                               | ND            | 0.14     | 0.140    | 100          |      | -         | -             |      | 80-120          | -   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102678

Report Date: 02/01/21

| Parameter                                                                                                                                    | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12    QC Batch ID: WG1456447-3    QC Sample: L2102676-01    Client ID: MS Sample |               |          |          |              |           |               |                 |     |            |
| Aluminum, Total                                                                                                                              | 2190          | 167      | 2340     | 90           | -         | -             | 75-125          | -   | 20         |
| Antimony, Total                                                                                                                              | 0.334J        | 41.7     | 42.5     | 102          | -         | -             | 75-125          | -   | 20         |
| Arsenic, Total                                                                                                                               | 1.80          | 10       | 13.8     | 120          | -         | -             | 75-125          | -   | 20         |
| Barium, Total                                                                                                                                | 5.45          | 167      | 162      | 94           | -         | -             | 75-125          | -   | 20         |
| Beryllium, Total                                                                                                                             | 0.092J        | 4.17     | 4.05     | 97           | -         | -             | 75-125          | -   | 20         |
| Cadmium, Total                                                                                                                               | 0.176J        | 4.26     | 4.73     | 111          | -         | -             | 75-125          | -   | 20         |
| Calcium, Total                                                                                                                               | 896           | 835      | 1050     | 18           | Q         | -             | 75-125          | -   | 20         |
| Chromium, Total                                                                                                                              | 6.25          | 16.7     | 25.2     | 114          | -         | -             | 75-125          | -   | 20         |
| Cobalt, Total                                                                                                                                | 0.702J        | 41.7     | 42.3     | 101          | -         | -             | 75-125          | -   | 20         |
| Copper, Total                                                                                                                                | 1.52          | 20.9     | 23.8     | 107          | -         | -             | 75-125          | -   | 20         |
| Iron, Total                                                                                                                                  | 7710          | 83.5     | 10300    | 3100         | Q         | -             | 75-125          | -   | 20         |
| Lead, Total                                                                                                                                  | 2.61J         | 42.6     | 46.5     | 109          | -         | -             | 75-125          | -   | 20         |
| Magnesium, Total                                                                                                                             | 146           | 835      | 867      | 86           | -         | -             | 75-125          | -   | 20         |
| Manganese, Total                                                                                                                             | 16.4          | 41.7     | 49.4     | 79           | -         | -             | 75-125          | -   | 20         |
| Nickel, Total                                                                                                                                | 1.05J         | 41.7     | 40.3     | 96           | -         | -             | 75-125          | -   | 20         |
| Potassium, Total                                                                                                                             | 102J          | 835      | 946      | 113          | -         | -             | 75-125          | -   | 20         |
| Selenium, Total                                                                                                                              | 0.276J        | 10       | 10.1     | 101          | -         | -             | 75-125          | -   | 20         |
| Silver, Total                                                                                                                                | ND            | 25       | 25.7     | 103          | -         | -             | 75-125          | -   | 20         |
| Sodium, Total                                                                                                                                | 21.3J         | 835      | 942      | 113          | -         | -             | 75-125          | -   | 20         |
| Thallium, Total                                                                                                                              | ND            | 10       | 10.3     | 103          | -         | -             | 75-125          | -   | 20         |
| Vanadium, Total                                                                                                                              | 6.28          | 41.7     | 47.7     | 99           | -         | -             | 75-125          | -   | 20         |



**Matrix Spike Analysis**  
**Batch Quality Control****Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| Parameter                                                                                                                                    | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12    QC Batch ID: WG1456447-3    QC Sample: L2102676-01    Client ID: MS Sample |               |          |          |              |           |               |                 |     |            |
| Zinc, Total                                                                                                                                  | 5.47          | 41.7     | 48.5     | 103          | -         | -             | 75-125          | -   | 20         |

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                             | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09    QC Batch ID: WG1457237-3    QC Sample: L2102678-09    Client ID: FIELD BLANK |               |          |          |              |           |               |                 |     |            |
| Aluminum, Total                                                                                                                       | 0.038J        | 2        | 2.06     | 103          | -         | -             | 75-125          | -   | 20         |
| Antimony, Total                                                                                                                       | ND            | 0.5      | 0.503    | 101          | -         | -             | 75-125          | -   | 20         |
| Arsenic, Total                                                                                                                        | ND            | 0.12     | 0.139    | 116          | -         | -             | 75-125          | -   | 20         |
| Barium, Total                                                                                                                         | ND            | 2        | 2.15     | 108          | -         | -             | 75-125          | -   | 20         |
| Beryllium, Total                                                                                                                      | ND            | 0.05     | 0.054    | 108          | -         | -             | 75-125          | -   | 20         |
| Cadmium, Total                                                                                                                        | ND            | 0.051    | 0.057    | 112          | -         | -             | 75-125          | -   | 20         |
| Calcium, Total                                                                                                                        | ND            | 10       | 10.6     | 106          | -         | -             | 75-125          | -   | 20         |
| Chromium, Total                                                                                                                       | ND            | 0.2      | 0.211    | 106          | -         | -             | 75-125          | -   | 20         |
| Cobalt, Total                                                                                                                         | ND            | 0.5      | 0.523    | 105          | -         | -             | 75-125          | -   | 20         |
| Copper, Total                                                                                                                         | ND            | 0.25     | 0.269    | 108          | -         | -             | 75-125          | -   | 20         |
| Iron, Total                                                                                                                           | ND            | 1        | 1.04     | 104          | -         | -             | 75-125          | -   | 20         |
| Lead, Total                                                                                                                           | ND            | 0.51     | 0.558    | 109          | -         | -             | 75-125          | -   | 20         |
| Magnesium, Total                                                                                                                      | ND            | 10       | 10.5     | 105          | -         | -             | 75-125          | -   | 20         |
| Manganese, Total                                                                                                                      | ND            | 0.5      | 0.516    | 103          | -         | -             | 75-125          | -   | 20         |
| Nickel, Total                                                                                                                         | ND            | 0.5      | 0.510    | 102          | -         | -             | 75-125          | -   | 20         |
| Potassium, Total                                                                                                                      | ND            | 10       | 10.3     | 103          | -         | -             | 75-125          | -   | 20         |
| Selenium, Total                                                                                                                       | ND            | 0.12     | 0.138    | 115          | -         | -             | 75-125          | -   | 20         |
| Silver, Total                                                                                                                         | ND            | 0.05     | 0.053    | 107          | -         | -             | 75-125          | -   | 20         |
| Sodium, Total                                                                                                                         | ND            | 10       | 10.7     | 107          | -         | -             | 75-125          | -   | 20         |
| Thallium, Total                                                                                                                       | 0.003J        | 0.12     | 0.124    | 103          | -         | -             | 75-125          | -   | 20         |
| Vanadium, Total                                                                                                                       | ND            | 0.5      | 0.522    | 104          | -         | -             | 75-125          | -   | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                             | Native Sample | MS Added                 | MS Found | MS %Recovery | MSD Found              | MSD %Recovery | Recovery Limits        | RPD | RPD Limits |
|-------------------------------------------------------|---------------|--------------------------|----------|--------------|------------------------|---------------|------------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09 |               | QC Batch ID: WG1457237-3 |          |              | QC Sample: L2102678-09 |               | Client ID: FIELD BLANK |     |            |
| Zinc, Total                                           | ND            | 0.5                      | 0.554    | 111          | -                      | -             | 75-125                 | -   | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 09 |               | QC Batch ID: WG1457244-3 |          |              | QC Sample: L2102678-09 |               | Client ID: FIELD BLANK |     |            |
| Mercury, Total                                        | ND            | 0.005                    | 0.00450  | 90           | -                      | -             | 75-125                 | -   | 20         |

**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 QC Batch ID: WG1456445-4 QC Sample: L2102676-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Mercury, Total                                                                                                                       | ND            | ND               | mg/kg | NC  |      | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 QC Batch ID: WG1456447-4 QC Sample: L2102676-01 Client ID: DUP Sample |               |                  |       |     |            |
| Aluminum, Total                                                                                                                      | 2190          | 1630             | mg/kg | 29  | Q 20       |
| Antimony, Total                                                                                                                      | 0.334J        | 0.470J           | mg/kg | NC  | 20         |
| Arsenic, Total                                                                                                                       | 1.80          | 3.30             | mg/kg | 59  | Q 20       |
| Barium, Total                                                                                                                        | 5.45          | 4.22             | mg/kg | 25  | Q 20       |
| Beryllium, Total                                                                                                                     | 0.092J        | 0.097J           | mg/kg | NC  | 20         |
| Cadmium, Total                                                                                                                       | 0.176J        | 0.243J           | mg/kg | NC  | 20         |
| Calcium, Total                                                                                                                       | 896           | 137              | mg/kg | 147 | Q 20       |
| Chromium, Total                                                                                                                      | 6.25          | 10.3             | mg/kg | 49  | Q 20       |
| Cobalt, Total                                                                                                                        | 0.702J        | 0.413J           | mg/kg | NC  | 20         |
| Copper, Total                                                                                                                        | 1.52          | 1.69             | mg/kg | 11  | 20         |
| Iron, Total                                                                                                                          | 7710          | 9950             | mg/kg | 25  | Q 20       |
| Lead, Total                                                                                                                          | 2.61J         | 2.52J            | mg/kg | NC  | 20         |
| Magnesium, Total                                                                                                                     | 146           | 58.6             | mg/kg | 85  | Q 20       |
| Manganese, Total                                                                                                                     | 16.4          | 9.20             | mg/kg | 56  | Q 20       |
| Nickel, Total                                                                                                                        | 1.05J         | 0.631J           | mg/kg | NC  | 20         |
| Potassium, Total                                                                                                                     | 102J          | 92.9J            | mg/kg | NC  | 20         |
| Selenium, Total                                                                                                                      | 0.276J        | 0.372J           | mg/kg | NC  | 20         |
| Silver, Total                                                                                                                        | ND            | ND               | mg/kg | NC  | 20         |
| Sodium, Total                                                                                                                        | 21.3J         | 16.9J            | mg/kg | NC  | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08,11-12 QC Batch ID: WG1456447-4 QC Sample: L2102676-01 Client ID: DUP Sample |               |                  |       |     |            |
| Thallium, Total                                                                                                                      | ND            | ND               | mg/kg | NC  | 20         |
| Vanadium, Total                                                                                                                      | 6.28          | 6.88             | mg/kg | 9   | 20         |
| Zinc, Total                                                                                                                          | 5.47          | 6.09             | mg/kg | 11  | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                    | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1457237-4 QC Sample: L2102678-09 Client ID: FIELD BLANK |               |                  |       |     |            |
| Aluminum, Total                                                                                                              | 0.038J        | ND               | mg/l  | NC  | 20         |
| Antimony, Total                                                                                                              | ND            | ND               | mg/l  | NC  | 20         |
| Arsenic, Total                                                                                                               | ND            | ND               | mg/l  | NC  | 20         |
| Barium, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |
| Beryllium, Total                                                                                                             | ND            | ND               | mg/l  | NC  | 20         |
| Cadmium, Total                                                                                                               | ND            | ND               | mg/l  | NC  | 20         |
| Calcium, Total                                                                                                               | ND            | ND               | mg/l  | NC  | 20         |
| Chromium, Total                                                                                                              | ND            | ND               | mg/l  | NC  | 20         |
| Cobalt, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |
| Copper, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |
| Iron, Total                                                                                                                  | ND            | ND               | mg/l  | NC  | 20         |
| Lead, Total                                                                                                                  | ND            | ND               | mg/l  | NC  | 20         |
| Magnesium, Total                                                                                                             | ND            | ND               | mg/l  | NC  | 20         |
| Manganese, Total                                                                                                             | ND            | ND               | mg/l  | NC  | 20         |
| Nickel, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |
| Potassium, Total                                                                                                             | ND            | ND               | mg/l  | NC  | 20         |
| Selenium, Total                                                                                                              | ND            | ND               | mg/l  | NC  | 20         |
| Silver, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |
| Sodium, Total                                                                                                                | ND            | ND               | mg/l  | NC  | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678

**Report Date:** 02/01/21

| Parameter                                                                                                                    | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1457237-4 QC Sample: L2102678-09 Client ID: FIELD BLANK |               |                  |       |     |            |
| Vanadium, Total                                                                                                              | ND            | ND               | mg/l  | NC  | 20         |
| Zinc, Total                                                                                                                  | ND            | ND               | mg/l  | NC  | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1457237-4 QC Sample: L2102678-09 Client ID: FIELD BLANK |               |                  |       |     |            |
| Thallium, Total                                                                                                              | 0.003J        | 0.008J           | mg/l  | NC  | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1457244-4 QC Sample: L2102678-09 Client ID: FIELD BLANK |               |                  |       |     |            |
| Mercury, Total                                                                                                               | ND            | ND               | mg/l  | NC  | 20         |



# **INORGANICS & MISCELLANEOUS**

**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-01**Client ID:** SB-8 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 08:30**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 88.5   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-02**Client ID:** SB-8 (6.5-8.5)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 09:00**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.9   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-03**Client ID:** SB-9 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 09:40**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.1   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-04**Client ID:** SB-9 (6.5-8.5)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 10:00**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.7   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-05**Client ID:** SB-10 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 10:10**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.3   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-06**Client ID:** SB-10 (7-9)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 10:40**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 91.7   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-07**Client ID:** SB-13 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 11:30**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 90.9   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |





**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-08**Client ID:** SB-13 (17.5-19.5)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 12:00**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 92.2   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-11**Client ID:** SB-18 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 13:00**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 81.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102678-12**Client ID:** SB-18 (20-22)**Sample Location:** STATEN ISLAND**Date Collected:** 01/18/21 13:20**Date Received:** 01/18/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 92.1   |           | %     | 0.100 | NA  | 1                  | -                | 01/19/21 10:05   | 121,2540G            | RI      |



**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102678**Report Date:** 02/01/21

| Parameter                                                                                                                                   | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-08,11-12 QC Batch ID: WG1456279-1 QC Sample: L2102625-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Solids, Total                                                                                                                               | 87.6          | 87.2             | %     | 0   |      | 20         |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

A                                  Absent

B                                  Absent

C                                  Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-01A        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-01B        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-01C        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-01D        | Plastic 2oz unpreserved for TS         | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-01E        | Plastic 2oz unpreserved for TS         | A             | NA                    |                     | 4.3                   | Y           | Absent      |                             | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-01F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180) |
| L2102678-01G        | Glass 120ml/4oz unpreserved            | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-01H        | Plastic 8oz unpreserved                | A             | NA                    |                     | 4.3                   | Y           | Absent      |                             | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-01I        | Glass 500ml/16oz unpreserved           | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-01X        | Vial MeOH preserved split              | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-01Y        | Vial Water preserved split             | C             | NA                    |                     | 3.3                   | Y           | Absent      | 19-JAN-21 13:32             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-01Z        | Vial Water preserved split             | C             | NA                    |                     | 3.3                   | Y           | Absent      | 19-JAN-21 13:32             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02A        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02B        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02C        | 5 gram Encore Sampler                  | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02D        | Plastic 2oz unpreserved for TS         | C             | NA                    |                     | 3.3                   | Y           | Absent      |                             | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-02E        | Plastic 2oz unpreserved for TS         | A             | NA                    |                     | 4.3                   | Y           | Absent      |                             | HOLD-WETCHEM()                                                                                                                                                                                                                                           |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Serial\_No:** 02012115:09  
**Lab Number:** L2102678  
**Report Date:** 02/01/21

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-02F | Metals Only-Glass 60mL/2oz unpreserved | C      | NA         |          | 3.3        | Y    | Absent |                  | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),SB-Ti(180),ZN-Ti(180),PB-Ti(180),CU-Ti(180),SE-Ti(180),V-Ti(180),CO-Ti(180),MG-Ti(180),FE-Ti(180),MN-Ti(180),HG-T(28),CD-Ti(180),NA-Ti(180),K-Ti(180),CA-Ti(180) |
| L2102678-02G | Glass 120ml/4oz unpreserved            | C      | NA         |          | 3.3        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-02H | Plastic 8oz unpreserved                | A      | NA         |          | 4.3        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-02I | Glass 500ml/16oz unpreserved           | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-02X | Vial MeOH preserved split              | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02Y | Vial Water preserved split             | C      | NA         |          | 3.3        | Y    | Absent | 19-JAN-21 13:32  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-02Z | Vial Water preserved split             | C      | NA         |          | 3.3        | Y    | Absent | 19-JAN-21 13:32  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03A | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03B | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03C | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03D | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.3        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-03E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 4.3        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-03F | Metals Only-Glass 60mL/2oz unpreserved | C      | NA         |          | 3.3        | Y    | Absent |                  | BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),TL-Ti(180),AL-Ti(180),NI-Ti(180),SB-Ti(180),CU-Ti(180),SE-Ti(180),PB-Ti(180),ZN-Ti(180),V-Ti(180),CO-Ti(180),HG-T(28),FE-Ti(180),MG-Ti(180),MN-Ti(180),K-Ti(180),CD-Ti(180),CA-Ti(180),NA-Ti(180) |
| L2102678-03G | Glass 120ml/4oz unpreserved            | C      | NA         |          | 3.3        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-03H | Plastic 8oz unpreserved                | A      | NA         |          | 4.3        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-03I | Glass 500ml/16oz unpreserved           | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-03X | Vial MeOH preserved split              | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03Y | Vial Water preserved split             | C      | NA         |          | 3.3        | Y    | Absent | 19-JAN-21 13:32  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-03Z | Vial Water preserved split             | C      | NA         |          | 3.3        | Y    | Absent | 19-JAN-21 13:32  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04A | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04B | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04C | 5 gram Encore Sampler                  | C      | NA         |          | 3.3        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04D | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.3        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-04E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-04F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180) |
| L2102678-04G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-04H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-04I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-04X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-04Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-05E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-05F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180) |
| L2102678-05G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-05H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                    |
| L2102678-05I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-05X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-05Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-06A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-06B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-06C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-06D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-06E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-06F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),CR-Ti(180),TL-Ti(180),AL-Ti(180),SB-Ti(180),CU-Ti(180),SE-Ti(180),ZN-Ti(180),PB-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MN-Ti(180),MG-Ti(180),K-Ti(180),CD-Ti(180),NA-Ti(180),CA-Ti(180) |
| L2102678-06G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-06H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-06I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-06X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-06Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-06Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-07E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-07F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),NI-Ti(180),CU-Ti(180),ZN-Ti(180),SE-Ti(180),SB-Ti(180),PB-Ti(180),V-Ti(180),CO-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),FE-Ti(180),CD-Ti(180),CA-Ti(180),NA-Ti(180),K-Ti(180) |
| L2102678-07G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-07H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-07I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-07X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-07Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-08A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-08B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-08C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-08D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-08E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-08F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180) |
| L2102678-08G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-08H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-08I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-08X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-08Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-08Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-09A        | Vial HCl preserved                     | B             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102678-09B        | Vial HCl preserved                     | B             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102678-09C        | Vial HCl preserved                     | B             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102678-09D        | Amber 120ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                            |
| L2102678-09E        | Amber 120ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                            |
| L2102678-09F        | Amber 120ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                        |
| L2102678-09G        | Amber 120ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                        |
| L2102678-09H        | Plastic 250ml NaOH preserved           | B             | >12               | >12             | 4.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-09I        | Plastic 250ml unpreserved              | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(14)                                                                                                                                                                                                                                             |
| L2102678-09J        | Amber 250ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8270-LVI(7)                                                                                                                                                                                                                                        |
| L2102678-09K        | Amber 250ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | NYTCL-8270-LVI(7)                                                                                                                                                                                                                                        |
| L2102678-09L        | Amber 250ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | HOLD-1,4DIOX(7)                                                                                                                                                                                                                                          |
| L2102678-09M        | Amber 250ml unpreserved                | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | HOLD-1,4DIOX(7)                                                                                                                                                                                                                                          |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-09N        | Plastic 250ml HNO3 preserved           | B             | <2                | <2              | 4.6               | Y           | Absent      |                         | BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),AL-Ti(180),SE-Ti(180),ZN-Ti(180),PB-Ti(180),SB-Ti(180),CU-Ti(180),CO-Ti(180),V-Ti(180),MN-Ti(180),MG-Ti(180),FE-Ti(180),HG-T(28),K-Ti(180),CA-Ti(180),NA-Ti(180),CD-Ti(180) |
| L2102678-09O        | Plastic 500ml unpreserved              | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-09P        | Amber 1000ml unpreserved               | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | HERB-APA(7)                                                                                                                                                                                                                                              |
| L2102678-09Q        | Amber 1000ml unpreserved               | B             | 7                 | 7               | 4.6               | Y           | Absent      |                         | HERB-APA(7)                                                                                                                                                                                                                                              |
| L2102678-10A        | Vial HCl preserved                     | B             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102678-10B        | Vial HCl preserved                     | B             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102678-11A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-11B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-11C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-11D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-11E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-11F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),SB-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),FE-Ti(180),NA-Ti(180),CD-Ti(180),K-Ti(180),CA-Ti(180) |
| L2102678-11G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-11H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-11I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-11X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-11Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-11Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.3               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102678-12E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102678**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102678-12F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.3               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180) |
| L2102678-12G        | Glass 120ml/4oz unpreserved            | C             | NA                |                 | 3.3               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102678-12H        | Plastic 8oz unpreserved                | A             | NA                |                 | 4.3               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102678-12I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102678-12X        | Vial MeOH preserved split              | C             | NA                |                 | 3.3               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12Y        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102678-12Z        | Vial Water preserved split             | C             | NA                |                 | 3.3               | Y           | Absent      | 19-JAN-21 13:32         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

Serial\_No:02012115:09  
**Lab Number:** L2102678  
**Report Date:** 02/01/21

### PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)                                 |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDaA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| PERFLUOROALKYL SULFONIC ACIDS (PFSA's)                                  |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDaDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| FLUOROTELOMERS                                                          |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs)                                    |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| PERFLUOROALKANE SULFONYL SUBSTANCES                                     |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS                         |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS                                    |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESA's)                                 |              |             |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid                                  | PFEEESA      | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCA's)                     |              |             |
| Perfluoro-3-Methoxypropanoic Acid                                       | PFMPA        | 377-73-1    |
| Perfluoro-4-Methoxybutanoic Acid                                        | PFMBA        | 863090-89-5 |
| Nonfluoro-3,6-Dioxaheptanoic Acid                                       | NFDHA        | 151772-58-6 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

## GLOSSARY

### Acronyms

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

Report Format: DU Report with 'J' Qualifiers



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

### Footnotes

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

### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

**Data Qualifiers**

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102678  
**Report Date:** 02/01/21

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

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

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





**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 17

Department: **Quality Assurance**

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Page 1 of 1

**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, NO<sub>2</sub>, NO<sub>3</sub>.**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.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193<br>Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288 |       | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                                                                                               |                | Page<br>1 of 2                                                                                                                                                                                                                        |             | Date Rec'd<br>in Lab 1/18/21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | ALPHA Job #<br>L2102678                                                                                                                             |               |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------|----------------|------------------------------------------------|-------------|---------|------------------|-------------------|---------------|--|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--------------------------|
|                                                                                                                                                                                                                                                                                          |       | <b>Project Information</b><br>Project Name: <u>Liberty Towers</u><br>Project Location: <u>Staten Island</u><br>Project # _____<br>(Use Project name as Project #) <input checked="" type="checkbox"/><br>Project Manager: <u>A. Carroll</u><br>ALPHAQuote #: _____<br>Turn-Around Time _____<br>Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/> Due Date: _____<br># of Days: _____ |                | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B<br><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)<br><input type="checkbox"/> Other _____            |             | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO # _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                                                                                     |               |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| <b>Client Information</b><br>Client: <u>Teren Environmental</u><br>Address: <u>121 West 27th Street</u><br><u>Suite 703, NY, NY 10011</u><br>Phone: <u>646-606-2332</u><br>Fax: <u>aplatt@teren-env.com</u><br>Email: <u>acarroll@teren-env.com</u>                                      |       | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other _____<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge                                           |                | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility: _____<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: _____ |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                     |               |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:<br><u>HOLD ALL PFA's, 1,4-Dioxane, Cyanide, + Tri/Hex Chromium Analyses</u><br>Please specify Metals or TAL. _____                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                                                                                                                                                                                                                       |             | <b>ANALYSIS</b><br><table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>VOCs</th> <th>SVOCs</th> <th>TAL Metals</th> <th>Pest/Herb/PCBs</th> <th>PFA's</th> <th>1,4-Dioxane</th> <th>Cyanide</th> <th>Tri/Hex Chromium</th> <th>Sample Filtration</th> <th rowspan="3" style="writing-mode: vertical-rl; text-align: center;">Total Bottles</th> </tr> </thead> <tbody> <tr> <td colspan="8"></td> <td> <input type="checkbox"/> Done<br/> <input type="checkbox"/> Lab to do<br/>           Preservation<br/> <input type="checkbox"/> Lab to do<br/>           (Please Specify below)         </td> </tr> <tr> <td colspan="8"></td> <td>Sample Specific Comments</td> </tr> </tbody> </table> |                  |                                                                                                                                                     |               | VOCs                                                                                                                                                                                                                                                                         | SVOCs | TAL Metals                                                   | Pest/Herb/PCBs | PFA's                                          | 1,4-Dioxane | Cyanide | Tri/Hex Chromium | Sample Filtration | Total Bottles |  |  |  |  |  |  |  |  | <input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br>Preservation<br><input type="checkbox"/> Lab to do<br>(Please Specify below) |  |  |  |  |  |  |  |  | Sample Specific Comments |
| VOCs                                                                                                                                                                                                                                                                                     | SVOCs | TAL Metals                                                                                                                                                                                                                                                                                                                                                                                                                            | Pest/Herb/PCBs | PFA's                                                                                                                                                                                                                                 | 1,4-Dioxane | Cyanide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tri/Hex Chromium | Sample Filtration                                                                                                                                   | Total Bottles |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
|                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | <input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br>Preservation<br><input type="checkbox"/> Lab to do<br>(Please Specify below) |               |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
|                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | Sample Specific Comments                                                                                                                            |               |                                                                                                                                                                                                                                                                              |       |                                                              |                |                                                |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| ALPHA Lab ID (Lab Use Only)                                                                                                                                                                                                                                                              |       | Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                             |                | Collection<br>Date Time                                                                                                                                                                                                               |             | Sample Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | Sampler's Initials                                                                                                                                  |               | VOCs SVOCs TAL Metals Pest/Herb/PCBs PFA's 1,4-Dioxane Cyanide Tri/Hex Chromium                                                                                                                                                                                              |       | HOLD<br>PFA's, 1,4-D, Cyanide, & Chromium<br>for ALL samples |                | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>2 |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| 02678-01                                                                                                                                                                                                                                                                                 |       | SB-8 (0-2)                                                                                                                                                                                                                                                                                                                                                                                                                            |                | 1/18/21 8:30                                                                                                                                                                                                                          |             | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  | AP                                                                                                                                                  |               | X X X X                                                                                                                                                                                                                                                                      |       | HOLD                                                         |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -02                                                                                                                                                                                                                                                                                      |       | SB-8 (6.5-8.5)                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 9:00                                                                                                                                                                                                                                  |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | HOLD                                                         |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -03                                                                                                                                                                                                                                                                                      |       | SB-9 (0-2)                                                                                                                                                                                                                                                                                                                                                                                                                            |                | 9:40                                                                                                                                                                                                                                  |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | PFA's, 1,4-D,                                                |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -04                                                                                                                                                                                                                                                                                      |       | SB-9 (6.5-8.5)                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 10:00                                                                                                                                                                                                                                 |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | Cyanide, &                                                   |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -05                                                                                                                                                                                                                                                                                      |       | SB-10 (0-2)                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 10:10                                                                                                                                                                                                                                 |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | Chromium                                                     |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -06                                                                                                                                                                                                                                                                                      |       | SB-10 (7-9)                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 10:40                                                                                                                                                                                                                                 |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | for ALL                                                      |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -07                                                                                                                                                                                                                                                                                      |       | SB-13 (0-2)                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 11:30                                                                                                                                                                                                                                 |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | samples                                                      |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -08                                                                                                                                                                                                                                                                                      |       | SB-13 (17.5-19.5)                                                                                                                                                                                                                                                                                                                                                                                                                     |                | 12:00                                                                                                                                                                                                                                 |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | samples                                                      |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -09                                                                                                                                                                                                                                                                                      |       | Field Blank                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 8:50                                                                                                                                                                                                                                  |             | Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | ↓                                                                                                                                                   |               | X X X X                                                                                                                                                                                                                                                                      |       | samples                                                      |                | 9                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| -10                                                                                                                                                                                                                                                                                      |       | Trip Blank                                                                                                                                                                                                                                                                                                                                                                                                                            |                | ↓                                                                                                                                                                                                                                     |             | ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | ↓                                                                                                                                                   |               | X                                                                                                                                                                                                                                                                            |       | samples                                                      |                | 2                                              |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other                                          |       | Container Code<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                                                                                                                                                                                                                                                                |                | Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015                                                                                                                                                               |             | Container Type<br>Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  | E A A A P A A A<br>A A A A A A A A                                                                                                                  |               | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | Relinquished By:                                                                                                                                    |               | Date/Time                                                                                                                                                                                                                                                                    |       | Received By:                                                 |                | Date/Time                                      |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| A. Platt/Teren                                                                                                                                                                                                                                                                           |       | 1/18/21 13:40                                                                                                                                                                                                                                                                                                                                                                                                                         |                | [Signature]                                                                                                                                                                                                                           |             | 1/18/21 13:40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | [Signature]                                                                                                                                         |               | 1/18/21 13:40                                                                                                                                                                                                                                                                |       | [Signature]                                                  |                | 1/18/21 13:40                                  |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| [Signature]                                                                                                                                                                                                                                                                              |       | 1/18/21 17:05                                                                                                                                                                                                                                                                                                                                                                                                                         |                | [Signature]                                                                                                                                                                                                                           |             | 1/18/21 17:25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | [Signature]                                                                                                                                         |               | 1/18/21 17:25                                                                                                                                                                                                                                                                |       | [Signature]                                                  |                | 1/18/21 17:25                                  |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |
| [Signature]                                                                                                                                                                                                                                                                              |       | 1/18/21 22:00                                                                                                                                                                                                                                                                                                                                                                                                                         |                | [Signature]                                                                                                                                                                                                                           |             | 1/18/21 22:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | [Signature]                                                                                                                                         |               | 1/18/21 22:00                                                                                                                                                                                                                                                                |       | [Signature]                                                  |                | 1/18/21 22:00                                  |             |         |                  |                   |               |  |  |  |  |  |  |  |  |                                                                                                                                                     |  |  |  |  |  |  |  |  |                          |



Page 236 of 236



## ANALYTICAL REPORT

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Lab Number:     | L2102822                                                                                 |
| Client:         | Tenen Environmental, LLC<br>121 West 27th Street<br>Suite 702<br>New York City, NY 10001 |
| ATTN:           | Alana Carroll                                                                            |
| Phone:          | (646) 606-2332                                                                           |
| Project Name:   | LIBERTY TOWERS                                                                           |
| Project Number: | LIBERTY TOWERS                                                                           |
| Report Date:    | 02/01/21                                                                                 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Alpha<br>Sample ID | Client ID         | Matrix | Sample<br>Location | Collection<br>Date/Time | Receive Date |
|--------------------|-------------------|--------|--------------------|-------------------------|--------------|
| L2102822-01        | SB-14 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 07:30          | 01/19/21     |
| L2102822-02        | SB-14 (17.5-19.5) | SOIL   | STATEN ISLAND      | 01/19/21 07:50          | 01/19/21     |
| L2102822-03        | SB-12 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 08:00          | 01/19/21     |
| L2102822-04        | SB-12 (6.5-8.5)   | SOIL   | STATEN ISLAND      | 01/19/21 08:40          | 01/19/21     |
| L2102822-05        | SB-15 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 09:00          | 01/19/21     |
| L2102822-06        | SB-15 (14.5-16.5) | SOIL   | STATEN ISLAND      | 01/19/21 09:30          | 01/19/21     |
| L2102822-07        | SB-11 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 09:40          | 01/19/21     |
| L2102822-08        | SB-11 (5-7)       | SOIL   | STATEN ISLAND      | 01/19/21 10:00          | 01/19/21     |
| L2102822-09        | SB-16 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 10:20          | 01/19/21     |
| L2102822-10        | SB-16 (7-9)       | SOIL   | STATEN ISLAND      | 01/19/21 10:30          | 01/19/21     |
| L2102822-11        | SB-17 (0-2)       | SOIL   | STATEN ISLAND      | 01/19/21 10:50          | 01/19/21     |
| L2102822-12        | SB-17 (9-11)      | SOIL   | STATEN ISLAND      | 01/19/21 11:00          | 01/19/21     |
| L2102822-13        | TRIP BLANK        | WATER  | STATEN ISLAND      | 01/18/21 00:00          | 01/19/21     |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

### Case Narrative (continued)

#### Report Submission

February 01, 2021: This final report includes the results of all requested analyses.

January 26, 2021: This is a preliminary report.

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

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2102822-01 and WG1460241-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2102822-01 and WG1460241-4: The MeOH fraction of the extraction is reported for the following compounds: Perfluorooctanesulfonamide (FOSA), due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

#### Total Metals

L2102822-01 through -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature:

*Tiffani Morrissey* - Tiffani Morrissey

Title: Technical Director/Representative

Date: 02/01/21

# ORGANICS



# **VOLATILES**

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01  
 Client ID: SB-14 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 08:43  
 Analyst: JC  
 Percent Solids: 82%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.8  | 2.7  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.27 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.58 | 0.23 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.58 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.6  | 0.81 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.30 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.58 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.6  | 0.29 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.63 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.6  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.3  | 0.68 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.39 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.3  | 0.53 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.7  | 0.16 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.58 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.3  | 0.23 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.3  | 0.65 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.20 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.3  | 0.28 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.23 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.6  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.3  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.6  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.5  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.5  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.3  | 0.15 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.3  | 0.24 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.3  | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.3  | 0.19 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.58 | 0.15 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.19 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.3  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.3  | 0.22 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.3  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.5  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.6  | 0.20 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.6  | 0.76 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.6  | 1.3  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 1.2 | 0.20 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.38 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.32 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.3 | 0.22 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.3 | 0.39 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 93  | 41.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.3 | 0.21 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.3 | 0.45 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.3 | 0.22 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.3 | 0.40 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.8 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 09:08  
 Analyst: JC  
 Percent Solids: 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.4  | 2.5  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.25 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.13 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.54 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.3  | 0.75 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.28 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.54 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.54 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.3  | 0.26 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.54 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.58 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.3  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.63 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.36 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.49 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 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 | 0.54 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.60 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.26 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 0.99 | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.2  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 4.9  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.4  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.54 | 0.14 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.18 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.3  | 0.18 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.3  | 0.70 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.3  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                                     | ND     |           | ug/kg | 1.1 | 0.18 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.35 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.29 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 86  | 38.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.19 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.41 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.4 | 1.5  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-03  
 Client ID: SB-12 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 09:33  
 Analyst: JC  
 Percent Solids: 80%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.6  | 2.6  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.56 | 0.22 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.56 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.5  | 0.78 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.56 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.56 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.5  | 0.28 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.56 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.61 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.5  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.65 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.38 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.51 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.27 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.7  | 0.15 | 1               |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-03  
 Client ID: SB-12 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:00  
 Date Received: 01/19/21  
 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 | 0.56 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.63 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.20 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.27 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.22 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 1.0  | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.4  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 5.1  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.5  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.4  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.23 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.23 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.56 | 0.15 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.4  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.5  | 0.19 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.5  | 0.73 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.5  | 1.3  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-03

Date Collected: 01/19/21 08:00

Client ID: SB-12 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 1.1 | 0.19 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.22 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 90  | 39.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.20 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.43 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.38 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.6 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-04  
 Client ID: SB-12 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 09:58  
 Analyst: JC  
 Percent Solids: 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 7.4  | 3.4  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.5  | 0.21 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.5  | 0.34 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.5  | 0.18 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.5  | 0.21 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.5  | 0.40 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.74 | 0.29 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.74 | 0.19 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 5.9  | 1.0  | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.5  | 0.38 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.74 | 0.25 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.74 | 0.16 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.5  | 0.40 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.74 | 0.23 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.74 | 0.23 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.74 | 0.24 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 5.9  | 0.36 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.74 | 0.24 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.74 | 0.24 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.5  | 0.80 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.5  | 0.21 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 5.9  | 1.4  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 3.0  | 0.86 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.5  | 0.50 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 3.0  | 0.67 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.5  | 0.35 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 2.2  | 0.20 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-04  
 Client ID: SB-12 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:40  
 Date Received: 01/19/21  
 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 | 0.74 | 0.20 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 3.0  | 0.21 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 3.0  | 0.22 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 3.0  | 0.25 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 3.0  | 0.30 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 3.0  | 0.83 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.5  | 0.43 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.5  | 0.43 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.5  | 0.26 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.5  | 0.20 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 3.0  | 0.35 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.5  | 0.29 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 15   | 1.4  | 1               |
| Acetone                                             | ND     |           | ug/kg | 15   | 7.1  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 15   | 6.7  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 15   | 3.3  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 15   | 3.2  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 15   | 1.9  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 3.0  | 0.19 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 15   | 1.7  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 3.0  | 0.30 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 3.0  | 0.30 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.5  | 0.41 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 3.0  | 0.25 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.74 | 0.20 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 3.0  | 0.21 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.5  | 0.25 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.5  | 0.22 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 3.0  | 0.17 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 3.0  | 0.28 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 3.0  | 0.16 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 4.4  | 1.5  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 5.9  | 0.25 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.5  | 0.16 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.5  | 0.16 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 5.9  | 0.96 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 5.9  | 1.7  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-04**Date Collected:** 01/19/21 08:40**Client ID:** SB-12 (6.5-8.5)**Date Received:** 01/19/21**Sample Location:** STATEN ISLAND**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                                     | ND     |           | ug/kg | 1.5 | 0.25 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 3.0 | 0.48 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 3.0 | 0.40 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 3.0 | 0.28 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 3.0 | 0.49 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 120 | 52.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 3.0 | 0.26 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 3.0 | 0.57 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 3.0 | 0.28 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 3.0 | 0.50 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 7.4 | 2.1  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 114        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 108        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05  
 Client ID: SB-15 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 10:23  
 Analyst: JC  
 Percent Solids: 85%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.8  | 2.7  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.27 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.58 | 0.23 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.58 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.7  | 0.81 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.30 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.58 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.58 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.7  | 0.29 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.58 | 0.19 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.63 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.7  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.3  | 0.68 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.39 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.3  | 0.53 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.8  | 0.16 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-05

Date Collected: 01/19/21 09:00

Client ID: SB-15 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.58 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.3  | 0.23 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.3  | 0.65 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.20 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.3  | 0.28 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.23 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.6  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.3  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.6  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.5  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.5  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.3  | 0.15 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.3  | 0.24 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.3  | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.3  | 0.19 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.58 | 0.15 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.3  | 0.17 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.19 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.3  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.3  | 0.22 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.3  | 0.13 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.5  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.7  | 0.20 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.7  | 0.76 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.7  | 1.3  | 1               |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-05  
**Client ID:** SB-15 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                                     | ND     |           | ug/kg | 1.2 | 0.20 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.38 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.32 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.3 | 0.22 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.3 | 0.39 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 93  | 41.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.3 | 0.21 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.3 | 0.45 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.3 | 0.22 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.3 | 0.40 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.8 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 10:48  
 Analyst: JC  
 Percent Solids: 84%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 4.9  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 0.99 | 0.14 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 0.99 | 0.23 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 0.99 | 0.12 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 0.99 | 0.14 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 0.99 | 0.26 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.49 | 0.19 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.49 | 0.12 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.0  | 0.69 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 0.99 | 0.25 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.49 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 0.99 | 0.27 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.0  | 0.24 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.49 | 0.16 | 1               |
| Toluene                                             | ND     |           | ug/kg | 0.99 | 0.54 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 0.99 | 0.14 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.0  | 0.92 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.57 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 0.99 | 0.33 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.45 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 0.99 | 0.24 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.5  | 0.14 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 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 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.55 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 0.99 | 0.29 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 0.99 | 0.29 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 0.99 | 0.17 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 0.99 | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 0.99 | 0.19 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 9.9  | 0.90 | 1               |
| Acetone                                             | ND     |           | ug/kg | 9.9  | 4.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 9.9  | 4.5  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 9.9  | 2.2  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 9.9  | 2.1  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 9.9  | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 9.9  | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 0.99 | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.16 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.49 | 0.13 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 0.99 | 0.16 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 0.99 | 0.14 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.0  | 0.99 | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.0  | 0.17 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 0.99 | 0.11 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 0.99 | 0.11 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.0  | 0.64 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.0  | 1.1  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| n-Propylbenzene                                     | ND     |           | ug/kg | 0.99 | 0.17 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.0  | 0.32 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.0  | 0.27 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.0  | 0.33 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 79   | 35.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.0  | 0.17 | 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  | 0.34 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 4.9  | 1.4  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108        |           | 70-130              |
| Toluene-d8            | 95         |           | 70-130              |
| 4-Bromofluorobenzene  | 96         |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-07  
 Client ID: SB-11 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 11:14  
 Analyst: JC  
 Percent Solids: 82%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.0  | 2.8  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.60 | 0.24 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.60 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.8  | 0.84 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.60 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.33 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.8  | 0.30 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.66 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.8  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.4  | 0.70 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.40 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.4  | 0.55 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.29 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.8  | 0.16 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.60 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.17 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.21 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.4  | 0.68 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.21 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.4  | 0.29 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.24 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.5  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.7  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.5  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.4  | 0.15 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.4  | 0.25 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.20 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.16 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.4  | 0.18 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.20 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.4  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.23 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.13 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.6  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.8  | 0.20 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.8  | 0.79 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.8  | 1.4  | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 1.2 | 0.21 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.39 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.33 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.40 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 97  | 42.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.4 | 0.21 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.4 | 0.46 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.4 | 0.41 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 6.0 | 1.7  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 106        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-08  
 Client ID: SB-11 (5-7)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 11:39  
 Analyst: JC  
 Percent Solids: 82%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.0  | 2.8  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.60 | 0.24 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.60 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.8  | 0.83 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.60 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.33 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.8  | 0.30 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.65 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.8  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.4  | 0.70 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.40 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.4  | 0.54 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.8  | 0.16 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.60 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.17 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.4  | 0.67 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.21 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.4  | 0.28 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.24 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.5  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.7  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.5  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.4  | 0.15 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.4  | 0.25 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.20 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.16 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.4  | 0.17 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.20 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.4  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.23 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.13 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.6  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.8  | 0.20 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.8  | 0.78 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.8  | 1.4  | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 1.2 | 0.20 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.39 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.33 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.40 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 96  | 42.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.4 | 0.21 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.4 | 0.46 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.4 | 0.41 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 6.0 | 1.7  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 97         |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-09  
 Client ID: SB-16 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:20  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 12:04  
 Analyst: JC  
 Percent Solids: 87%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.5  | 2.5  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.25 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.55 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.55 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.4  | 0.76 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.28 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.55 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.55 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.55 | 0.17 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.55 | 0.17 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.55 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.4  | 0.27 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.55 | 0.18 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.55 | 0.18 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.59 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.4  | 1.0  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.2  | 0.64 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.37 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.2  | 0.49 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.15 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-09

Date Collected: 01/19/21 10:20

Client ID: SB-16 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.55 | 0.15 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.2  | 0.19 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.2  | 0.61 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.1  | 0.32 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1  | 0.19 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.1  | 0.15 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.2  | 0.26 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1  | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11   | 1.0  | 1               |
| Acetone                                             | ND     |           | ug/kg | 11   | 5.3  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11   | 5.0  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11   | 2.4  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 11   | 2.4  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.2  | 0.14 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11   | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.2  | 0.18 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.55 | 0.14 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.2  | 0.16 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.1  | 0.18 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.2  | 0.13 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.21 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.2  | 0.12 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.3  | 1.1  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.4  | 0.18 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.1  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.4  | 0.71 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.4  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-09**Date Collected:** 01/19/21 10:20**Client ID:** SB-16 (0-2)**Date Received:** 01/19/21**Sample Location:** STATEN ISLAND**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 | 1.1 | 0.19 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.35 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.2 | 0.30 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.2 | 0.36 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 88  | 38.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.2 | 0.19 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.2 | 0.42 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.2 | 0.21 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.2 | 0.37 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.5 | 1.6  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108        |           | 70-130              |
| Toluene-d8            | 95         |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10  
 Client ID: SB-16 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 12:29  
 Analyst: JC  
 Percent Solids: 85%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.0  | 2.8  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.60 | 0.24 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.60 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.8  | 0.84 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.60 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.33 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.8  | 0.30 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.2  | 0.65 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.8  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.4  | 0.70 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.40 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.4  | 0.54 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.29 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.8  | 0.16 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.60 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.17 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.21 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.4  | 0.67 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.2  | 0.35 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2  | 0.21 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.2  | 0.16 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.4  | 0.29 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2  | 0.24 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12   | 1.1  | 1               |
| Acetone                                             | ND     |           | ug/kg | 12   | 5.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12   | 5.5  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12   | 2.7  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 12   | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12   | 1.5  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.4  | 0.15 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12   | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.4  | 0.25 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2  | 0.34 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.4  | 0.20 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.16 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.4  | 0.17 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.2  | 0.20 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.18 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.4  | 0.14 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.23 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.4  | 0.13 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.6  | 1.2  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.8  | 0.20 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.2  | 0.13 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.8  | 0.78 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.8  | 1.4  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 1.2 | 0.21 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.39 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.33 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.4 | 0.40 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 96  | 42.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.4 | 0.21 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.4 | 0.46 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.4 | 0.23 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.4 | 0.41 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 6.0 | 1.7  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-11  
 Client ID: SB-17 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 12:54  
 Analyst: JC  
 Percent Solids: 89%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.0  | 2.3  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.23 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.12 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.50 | 0.20 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.0  | 0.69 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.26 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.50 | 0.17 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.50 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| 1,1-Dichloropropene                                 | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.0  | 0.24 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.50 | 0.16 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.54 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.0  | 0.93 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.0  | 0.58 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.33 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.0  | 0.45 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.5  | 0.14 | 1               |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                                     | ND     |           | ug/kg | 0.50 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.15 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.0  | 0.56 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0  | 0.17 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Dibromomethane                                      | ND     |           | ug/kg | 2.0  | 0.24 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.20 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.91 | 1               |
| Acetone                                             | ND     |           | ug/kg | 10   | 4.8  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.5  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 10   | 2.2  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.1  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.3  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.0  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| 1,3-Dichloropropane                                 | ND     |           | ug/kg | 2.0  | 0.17 | 1               |
| 1,1,1,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.50 | 0.13 | 1               |
| Bromobenzene                                        | ND     |           | ug/kg | 2.0  | 0.14 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 1.0  | 0.17 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.0  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.19 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.0  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.0  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.0  | 0.17 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.0  | 0.11 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.0  | 0.65 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.0  | 1.1  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 0.17 | 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 | 80  | 35.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.0 | 0.18 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.0 | 0.38 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | ug/kg | 2.0 | 0.19 | 1               |
| Ethyl ether                                         | ND     |           | ug/kg | 2.0 | 0.34 | 1               |
| trans-1,4-Dichloro-2-butene                         | ND     |           | ug/kg | 5.0 | 1.4  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110        |           | 70-130              |
| Toluene-d8            | 95         |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-12  
 Client ID: SB-17 (9-11)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 11:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 13:19  
 Analyst: JC  
 Percent Solids: 87%

| 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 | 1.0  | 0.15 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.6  | 0.15 | 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  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.53 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.53 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.2  | 0.73 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 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 | 1.0  | 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 | 4.2  | 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 | 1.0  | 0.57 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.2  | 0.98 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.1  | 0.61 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.35 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.1  | 0.48 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.25 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.14 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-12  
 Client ID: SB-17 (9-11)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 11:00  
 Date Received: 01/19/21  
 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                                          | ND     |           | ug/kg | 2.1  | 0.59 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0  | 0.31 | 1               |
| Xylenes, Total                                      | ND     |           | ug/kg | 1.0  | 0.31 | 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 | 2.1  | 0.25 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0  | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10   | 0.97 | 1               |
| Acetone                                             | 8.1    | J         | ug/kg | 10   | 5.1  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10   | 4.8  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 10   | 2.3  | 1               |
| Vinyl acetate                                       | ND     |           | ug/kg | 10   | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10   | 1.4  | 1               |
| 1,2,3-Trichloropropane                              | ND     |           | ug/kg | 2.1  | 0.13 | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10   | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.1  | 0.22 | 1               |
| 2,2-Dichloropropane                                 | ND     |           | ug/kg | 2.1  | 0.21 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0  | 0.29 | 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                                      | ND     |           | ug/kg | 1.0  | 0.18 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 2.1  | 0.12 | 1               |
| o-Chlorotoluene                                     | ND     |           | ug/kg | 2.1  | 0.20 | 1               |
| p-Chlorotoluene                                     | ND     |           | ug/kg | 2.1  | 0.11 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2  | 1.0  | 1               |
| Hexachlorobutadiene                                 | ND     |           | ug/kg | 4.2  | 0.18 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0  | 0.12 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 1.0  | 0.12 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 4.2  | 0.69 | 1               |
| Acrylonitrile                                       | ND     |           | ug/kg | 4.2  | 1.2  | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12

Date Collected: 01/19/21 11:00

Client ID: SB-17 (9-11)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

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 | 2.1 | 0.34 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.29 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 2.1 | 0.20 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 2.1 | 0.35 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 84  | 37.  | 1               |
| p-Diethylbenzene                                    | ND     |           | ug/kg | 2.1 | 0.19 | 1               |
| p-Ethyltoluene                                      | ND     |           | ug/kg | 2.1 | 0.40 | 1               |
| 1,2,4,5-Tetramethylbenzene                          | ND     |           | 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 | 112        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 106        |           | 70-130              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-13  
 Client ID: TRIP BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 00:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 11:25  
 Analyst: PD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,3-Dichloropropene, Total                   | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,1-Dichloropropene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-13  
 Client ID: TRIP BLANK  
 Sample Location: STATEN ISLAND

Date Collected: 01/18/21 00:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Xylenes, Total                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethene, Total                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dibromomethane                               | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 1,2,3-Trichloropropane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Acrylonitrile                                | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0  | 1.9  | 1               |
| Vinyl acetate                                | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0  | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 2,2-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,3-Dichloropropane                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1,1,2-Tetrachloroethane                    | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromobenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| n-Butylbenzene                               | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| sec-Butylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| tert-Butylbenzene                            | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| o-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Chlorotoluene                              | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Hexachlorobutadiene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Naphthalene                                  | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-13

Date Collected: 01/18/21 00:00

Client ID: TRIP BLANK

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| n-Propylbenzene                              | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| p-Diethylbenzene                             | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| p-Ethyltoluene                               | ND     |           | ug/l  | 2.0 | 0.70 | 1               |
| 1,2,4,5-Tetramethylbenzene                   | ND     |           | ug/l  | 2.0 | 0.54 | 1               |
| Ethyl ether                                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| trans-1,4-Dichloro-2-butene                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 95         |           | 70-130              |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
 Analytical Date: 01/21/21 09:07  
 Analyst: PD

| Parameter                                                                         | Result | Qualifier | Units | RL   | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1457390-5 |        |           |       |      |      |
| Methylene chloride                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                               | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                             | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                            | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                         | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                           | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total                                                        | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,1-Dichloropropene                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromoform                                                                         | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                         | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                           | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                          | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.18 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/21/21 09:07  
Analyst: PD

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1457390-5 |        |           |       |     |      |
| 1,2-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Xylenes, Total                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| Dibromomethane                                                                    | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2,3-Trichloropropane                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Acrylonitrile                                                                     | ND     |           | ug/l  | 5.0 | 1.5  |
| Styrene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                           | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                  | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 5.0 | 1.9  |
| Vinyl acetate                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 4-Methyl-2-pentanone                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                        | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| 2,2-Dichloropropane                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                 | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,3-Dichloropropane                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| Bromobenzene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                 | ND     |           | ug/l  | 2.5 | 0.70 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8260C  
**Analytical Date:** 01/21/21 09:07  
**Analyst:** PD

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1457390-5 |        |           |       |     |      |
| o-Chlorotoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Chlorotoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| Hexachlorobutadiene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,4-Dioxane                                                                       | ND     |           | ug/l  | 250 | 61.  |
| p-Diethylbenzene                                                                  | ND     |           | ug/l  | 2.0 | 0.70 |
| p-Ethyltoluene                                                                    | ND     |           | ug/l  | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene                                                        | ND     |           | ug/l  | 2.0 | 0.54 |
| Ethyl ether                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene                                                       | ND     |           | ug/l  | 2.5 | 0.70 |

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

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 05:47  
 Analyst: JC

| Parameter                                                                                   | Result | Qualifier | Units | RL   | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1457780-5 |        |           |       |      |      |
| 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:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8260C  
Analytical Date: 01/22/21 05:47  
Analyst: JC

| Parameter                                                                                   | Result | Qualifier | Units | RL   | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1457780-5 |        |           |       |      |      |
| 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:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/22/21 05:47  
 Analyst: JC

| Parameter                                                                                   | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1457780-5 |        |           |       |     |      |
| 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                                                                      | 0.28   | J         | 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 | 109       |           | 70-130              |
| Toluene-d8            | 97        |           | 70-130              |
| 4-Bromofluorobenzene  | 98        |           | 70-130              |
| Dibromofluoromethane  | 102       |           | 70-130              |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1457390-3 WG1457390-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                   | 90               |      | 91                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane                                                                                   | 90               |      | 92                |      | 70-130              | 2   |      | 20            |
| Chloroform                                                                                           | 86               |      | 90                |      | 70-130              | 5   |      | 20            |
| Carbon tetrachloride                                                                                 | 79               |      | 81                |      | 63-132              | 3   |      | 20            |
| 1,2-Dichloropropane                                                                                  | 89               |      | 91                |      | 70-130              | 2   |      | 20            |
| Dibromochloromethane                                                                                 | 92               |      | 92                |      | 63-130              | 0   |      | 20            |
| 1,1,2-Trichloroethane                                                                                | 92               |      | 92                |      | 70-130              | 0   |      | 20            |
| Tetrachloroethene                                                                                    | 94               |      | 94                |      | 70-130              | 0   |      | 20            |
| Chlorobenzene                                                                                        | 92               |      | 94                |      | 75-130              | 2   |      | 20            |
| Trichlorofluoromethane                                                                               | 80               |      | 82                |      | 62-150              | 2   |      | 20            |
| 1,2-Dichloroethane                                                                                   | 88               |      | 88                |      | 70-130              | 0   |      | 20            |
| 1,1,1-Trichloroethane                                                                                | 87               |      | 90                |      | 67-130              | 3   |      | 20            |
| Bromodichloromethane                                                                                 | 87               |      | 88                |      | 67-130              | 1   |      | 20            |
| trans-1,3-Dichloropropene                                                                            | 93               |      | 93                |      | 70-130              | 0   |      | 20            |
| cis-1,3-Dichloropropene                                                                              | 89               |      | 92                |      | 70-130              | 3   |      | 20            |
| 1,1-Dichloropropene                                                                                  | 86               |      | 90                |      | 70-130              | 5   |      | 20            |
| Bromoform                                                                                            | 91               |      | 92                |      | 54-136              | 1   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                            | 94               |      | 94                |      | 67-130              | 0   |      | 20            |
| Benzene                                                                                              | 90               |      | 93                |      | 70-130              | 3   |      | 20            |
| Toluene                                                                                              | 95               |      | 97                |      | 70-130              | 2   |      | 20            |
| Ethylbenzene                                                                                         | 92               |      | 93                |      | 70-130              | 1   |      | 20            |
| Chloromethane                                                                                        | 65               |      | 69                |      | 64-130              | 6   |      | 20            |
| Bromomethane                                                                                         | 65               |      | 70                |      | 39-139              | 7   |      | 20            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1457390-3 WG1457390-4 |                  |      |                   |      |                     |     |      |               |
| Vinyl chloride                                                                                       | 75               |      | 79                |      | 55-140              | 5   |      | 20            |
| Chloroethane                                                                                         | 81               |      | 84                |      | 55-138              | 4   |      | 20            |
| 1,1-Dichloroethene                                                                                   | 83               |      | 88                |      | 61-145              | 6   |      | 20            |
| trans-1,2-Dichloroethene                                                                             | 87               |      | 91                |      | 70-130              | 4   |      | 20            |
| Trichloroethene                                                                                      | 89               |      | 92                |      | 70-130              | 3   |      | 20            |
| 1,2-Dichlorobenzene                                                                                  | 95               |      | 96                |      | 70-130              | 1   |      | 20            |
| 1,3-Dichlorobenzene                                                                                  | 96               |      | 97                |      | 70-130              | 1   |      | 20            |
| 1,4-Dichlorobenzene                                                                                  | 96               |      | 97                |      | 70-130              | 1   |      | 20            |
| Methyl tert butyl ether                                                                              | 88               |      | 88                |      | 63-130              | 0   |      | 20            |
| p/m-Xylene                                                                                           | 90               |      | 95                |      | 70-130              | 5   |      | 20            |
| o-Xylene                                                                                             | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| cis-1,2-Dichloroethene                                                                               | 91               |      | 92                |      | 70-130              | 1   |      | 20            |
| Dibromomethane                                                                                       | 87               |      | 88                |      | 70-130              | 1   |      | 20            |
| 1,2,3-Trichloropropane                                                                               | 92               |      | 94                |      | 64-130              | 2   |      | 20            |
| Acrylonitrile                                                                                        | 83               |      | 85                |      | 70-130              | 2   |      | 20            |
| Styrene                                                                                              | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                              | 76               |      | 77                |      | 36-147              | 1   |      | 20            |
| Acetone                                                                                              | 76               |      | 74                |      | 58-148              | 3   |      | 20            |
| Carbon disulfide                                                                                     | 86               |      | 87                |      | 51-130              | 1   |      | 20            |
| 2-Butanone                                                                                           | 81               |      | 81                |      | 63-138              | 0   |      | 20            |
| Vinyl acetate                                                                                        | 87               |      | 88                |      | 70-130              | 1   |      | 20            |
| 4-Methyl-2-pentanone                                                                                 | 84               |      | 84                |      | 59-130              | 0   |      | 20            |
| 2-Hexanone                                                                                           | 82               |      | 80                |      | 57-130              | 2   |      | 20            |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1457390-3 WG1457390-4 |                  |      |                   |      |                     |     |      |               |
| Bromochloromethane                                                                                   | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| 2,2-Dichloropropane                                                                                  | 94               |      | 95                |      | 63-133              | 1   |      | 20            |
| 1,2-Dibromoethane                                                                                    | 91               |      | 92                |      | 70-130              | 1   |      | 20            |
| 1,3-Dichloropropane                                                                                  | 92               |      | 94                |      | 70-130              | 2   |      | 20            |
| 1,1,1,2-Tetrachloroethane                                                                            | 91               |      | 92                |      | 64-130              | 1   |      | 20            |
| Bromobenzene                                                                                         | 97               |      | 98                |      | 70-130              | 1   |      | 20            |
| n-Butylbenzene                                                                                       | 97               |      | 98                |      | 53-136              | 1   |      | 20            |
| sec-Butylbenzene                                                                                     | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| tert-Butylbenzene                                                                                    | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| o-Chlorotoluene                                                                                      | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| p-Chlorotoluene                                                                                      | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                          | 82               |      | 82                |      | 41-144              | 0   |      | 20            |
| Hexachlorobutadiene                                                                                  | 99               |      | 100               |      | 63-130              | 1   |      | 20            |
| Isopropylbenzene                                                                                     | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| p-Isopropyltoluene                                                                                   | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| Naphthalene                                                                                          | 86               |      | 91                |      | 70-130              | 6   |      | 20            |
| n-Propylbenzene                                                                                      | 99               |      | 100               |      | 69-130              | 1   |      | 20            |
| 1,2,3-Trichlorobenzene                                                                               | 88               |      | 95                |      | 70-130              | 8   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                               | 91               |      | 96                |      | 70-130              | 5   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                               | 100              |      | 100               |      | 64-130              | 0   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                               | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| 1,4-Dioxane                                                                                          | 114              |      | 114               |      | 56-162              | 0   |      | 20            |
| p-Diethylbenzene                                                                                     | 98               |      | 99                |      | 70-130              | 1   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1457390-3 WG1457390-4 |                  |      |                   |      |                     |     |      |               |
| p-Ethyltoluene                                                                                       | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| 1,2,4,5-Tetramethylbenzene                                                                           | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| Ethyl ether                                                                                          | 87               |      | 89                |      | 59-134              | 2   |      | 20            |
| trans-1,4-Dichloro-2-butene                                                                          | 92               |      | 94                |      | 70-130              | 2   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 92               |      | 93                |      | 70-130                 |
| Toluene-d8            | 102              |      | 102               |      | 70-130                 |
| 4-Bromofluorobenzene  | 103              |      | 102               |      | 70-130                 |
| Dibromofluoromethane  | 95               |      | 97                |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1457780-3 WG1457780-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                             | 90               |      | 87                |      | 70-130              | 3   |      | 30            |
| 1,1-Dichloroethane                                                                                             | 96               |      | 93                |      | 70-130              | 3   |      | 30            |
| Chloroform                                                                                                     | 94               |      | 93                |      | 70-130              | 1   |      | 30            |
| Carbon tetrachloride                                                                                           | 104              |      | 99                |      | 70-130              | 5   |      | 30            |
| 1,2-Dichloropropane                                                                                            | 92               |      | 89                |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                           | 92               |      | 93                |      | 70-130              | 1   |      | 30            |
| 1,1,2-Trichloroethane                                                                                          | 86               |      | 89                |      | 70-130              | 3   |      | 30            |
| Tetrachloroethene                                                                                              | 93               |      | 87                |      | 70-130              | 7   |      | 30            |
| Chlorobenzene                                                                                                  | 85               |      | 83                |      | 70-130              | 2   |      | 30            |
| Trichlorofluoromethane                                                                                         | 104              |      | 99                |      | 70-139              | 5   |      | 30            |
| 1,2-Dichloroethane                                                                                             | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| 1,1,1-Trichloroethane                                                                                          | 96               |      | 92                |      | 70-130              | 4   |      | 30            |
| Bromodichloromethane                                                                                           | 93               |      | 92                |      | 70-130              | 1   |      | 30            |
| trans-1,3-Dichloropropene                                                                                      | 94               |      | 96                |      | 70-130              | 2   |      | 30            |
| cis-1,3-Dichloropropene                                                                                        | 92               |      | 91                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloropropene                                                                                            | 95               |      | 90                |      | 70-130              | 5   |      | 30            |
| Bromoform                                                                                                      | 97               |      | 96                |      | 70-130              | 1   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                      | 85               |      | 83                |      | 70-130              | 2   |      | 30            |
| Benzene                                                                                                        | 87               |      | 84                |      | 70-130              | 4   |      | 30            |
| Toluene                                                                                                        | 90               |      | 87                |      | 70-130              | 3   |      | 30            |
| Ethylbenzene                                                                                                   | 95               |      | 90                |      | 70-130              | 5   |      | 30            |
| Chloromethane                                                                                                  | 94               |      | 88                |      | 52-130              | 7   |      | 30            |
| Bromomethane                                                                                                   | 91               |      | 86                |      | 57-147              | 6   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1457780-3 WG1457780-4 |                  |      |                   |      |                     |     |      |               |
| Vinyl chloride                                                                                                 | 94               |      | 88                |      | 67-130              | 7   |      | 30            |
| Chloroethane                                                                                                   | 99               |      | 92                |      | 50-151              | 7   |      | 30            |
| 1,1-Dichloroethene                                                                                             | 96               |      | 91                |      | 65-135              | 5   |      | 30            |
| trans-1,2-Dichloroethene                                                                                       | 97               |      | 91                |      | 70-130              | 6   |      | 30            |
| Trichloroethene                                                                                                | 91               |      | 88                |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                            | 94               |      | 88                |      | 70-130              | 7   |      | 30            |
| 1,3-Dichlorobenzene                                                                                            | 95               |      | 88                |      | 70-130              | 8   |      | 30            |
| 1,4-Dichlorobenzene                                                                                            | 94               |      | 88                |      | 70-130              | 7   |      | 30            |
| Methyl tert butyl ether                                                                                        | 96               |      | 96                |      | 66-130              | 0   |      | 30            |
| p/m-Xylene                                                                                                     | 90               |      | 86                |      | 70-130              | 5   |      | 30            |
| o-Xylene                                                                                                       | 88               |      | 85                |      | 70-130              | 3   |      | 30            |
| cis-1,2-Dichloroethene                                                                                         | 93               |      | 90                |      | 70-130              | 3   |      | 30            |
| Dibromomethane                                                                                                 | 91               |      | 91                |      | 70-130              | 0   |      | 30            |
| Styrene                                                                                                        | 91               |      | 90                |      | 70-130              | 1   |      | 30            |
| Dichlorodifluoromethane                                                                                        | 94               |      | 88                |      | 30-146              | 7   |      | 30            |
| Acetone                                                                                                        | 94               |      | 92                |      | 54-140              | 2   |      | 30            |
| Carbon disulfide                                                                                               | 85               |      | 81                |      | 59-130              | 5   |      | 30            |
| 2-Butanone                                                                                                     | 86               |      | 89                |      | 70-130              | 3   |      | 30            |
| Vinyl acetate                                                                                                  | 99               |      | 100               |      | 70-130              | 1   |      | 30            |
| 4-Methyl-2-pentanone                                                                                           | 85               |      | 86                |      | 70-130              | 1   |      | 30            |
| 1,2,3-Trichloropropane                                                                                         | 85               |      | 82                |      | 68-130              | 4   |      | 30            |
| 2-Hexanone                                                                                                     | 87               |      | 90                |      | 70-130              | 3   |      | 30            |
| Bromochloromethane                                                                                             | 92               |      | 89                |      | 70-130              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1457780-3 WG1457780-4 |                  |      |                   |      |                     |     |      |               |
| 2,2-Dichloropropane                                                                                            | 104              |      | 101               |      | 70-130              | 3   |      | 30            |
| 1,2-Dibromoethane                                                                                              | 86               |      | 88                |      | 70-130              | 2   |      | 30            |
| 1,3-Dichloropropane                                                                                            | 89               |      | 89                |      | 69-130              | 0   |      | 30            |
| 1,1,1,2-Tetrachloroethane                                                                                      | 87               |      | 85                |      | 70-130              | 2   |      | 30            |
| Bromobenzene                                                                                                   | 90               |      | 87                |      | 70-130              | 3   |      | 30            |
| n-Butylbenzene                                                                                                 | 96               |      | 88                |      | 70-130              | 9   |      | 30            |
| sec-Butylbenzene                                                                                               | 95               |      | 88                |      | 70-130              | 8   |      | 30            |
| tert-Butylbenzene                                                                                              | 95               |      | 88                |      | 70-130              | 8   |      | 30            |
| o-Chlorotoluene                                                                                                | 93               |      | 87                |      | 70-130              | 7   |      | 30            |
| p-Chlorotoluene                                                                                                | 94               |      | 89                |      | 70-130              | 5   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                    | 93               |      | 96                |      | 68-130              | 3   |      | 30            |
| Hexachlorobutadiene                                                                                            | 93               |      | 89                |      | 67-130              | 4   |      | 30            |
| Isopropylbenzene                                                                                               | 94               |      | 88                |      | 70-130              | 7   |      | 30            |
| p-Isopropyltoluene                                                                                             | 97               |      | 89                |      | 70-130              | 9   |      | 30            |
| Naphthalene                                                                                                    | 94               |      | 92                |      | 70-130              | 2   |      | 30            |
| Acrylonitrile                                                                                                  | 91               |      | 92                |      | 70-130              | 1   |      | 30            |
| n-Propylbenzene                                                                                                | 94               |      | 86                |      | 70-130              | 9   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                         | 94               |      | 90                |      | 70-130              | 4   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                         | 100              |      | 95                |      | 70-130              | 5   |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                         | 96               |      | 90                |      | 70-130              | 6   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                         | 97               |      | 90                |      | 70-130              | 7   |      | 30            |
| 1,4-Dioxane                                                                                                    | 104              |      | 107               |      | 65-136              | 3   |      | 30            |
| p-Diethylbenzene                                                                                               | 98               |      | 92                |      | 70-130              | 6   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1457780-3 WG1457780-4 |                  |      |                   |      |                     |     |      |               |
| p-Ethyltoluene                                                                                                 | 96               |      | 89                |      | 70-130              | 8   |      | 30            |
| 1,2,4,5-Tetramethylbenzene                                                                                     | 100              |      | 94                |      | 70-130              | 6   |      | 30            |
| Ethyl ether                                                                                                    | 92               |      | 93                |      | 67-130              | 1   |      | 30            |
| trans-1,4-Dichloro-2-butene                                                                                    | 98               |      | 96                |      | 70-130              | 2   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 105              |      | 110               |      | 70-130                 |
| Toluene-d8            | 99               |      | 99                |      | 70-130                 |
| 4-Bromofluorobenzene  | 102              |      | 98                |      | 70-130                 |
| Dibromofluoromethane  | 106              |      | 104               |      | 70-130                 |

# SEMIVOLATILES

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01  
 Client ID: SB-14 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 06:42  
 Analyst: IM  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 21. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | 250    |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | 59     | J         | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | 140    |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | 150    | J         | ug/kg | 160 | 49. | 1               |
| Benzo(b)fluoranthene                             | 220    |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | 73     | J         | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 170    |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | 110    | J         | ug/kg | 160 | 24. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | 150    |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | 31     | J         | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 110    | J         | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 220    |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 460 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 83. | 1               |
| Dibenzofuran                                     | 22     | J         | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | 42     | J         | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 82. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 960 | 93. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 96. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 31. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 650 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 61. | 1               |
| Carbazole                                        | 21     | J         | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.2 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 50         |           | 25-120              |
| Phenol-d6            | 54         |           | 10-120              |
| Nitrobenzene-d5      | 67         |           | 23-120              |
| 2-Fluorobiphenyl     | 71         |           | 30-120              |
| 2,4,6-Tribromophenol | 82         |           | 10-136              |
| 4-Terphenyl-d14      | 64         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-01  
 Client ID: SB-14 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 01/30/21 17:24  
 Analyst: SG  
 Percent Solids: 82%

Extraction Method: ALPHA 23528  
 Extraction Date: 01/30/21 05:50

| Parameter                                                      | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |       |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | ND     |           | ng/g  | 0.539 | 0.025 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | ND     |           | ng/g  | 0.539 | 0.050 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | ND     |           | ng/g  | 0.270 | 0.042 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | ND     |           | ng/g  | 0.539 | 0.057 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | ND     |           | ng/g  | 0.270 | 0.049 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/g  | 0.270 | 0.065 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 1.56   |           | ng/g  | 0.270 | 0.045 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/g  | 0.539 | 0.194 | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/g  | 0.539 | 0.147 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | 0.337  |           | ng/g  | 0.270 | 0.081 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | 0.602  |           | ng/g  | 0.270 | 0.140 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/g  | 0.270 | 0.072 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/g  | 0.539 | 0.310 | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/g  | 0.539 | 0.217 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/g  | 0.539 | 0.051 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/g  | 0.539 | 0.165 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | 0.144  | JF        | ng/g  | 0.539 | 0.091 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/g  | 0.539 | 0.076 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/g  | 0.539 | 0.221 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/g  | 0.539 | 0.058 | 1               |
| PFOA/PFOS, Total                                               | 2.16   |           | ng/g  | 0.270 | 0.045 | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 67         |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 74         |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 79         |           | 74-139              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 77         |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 72         |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 79         |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 68         | Q         | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 43         |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 71         | Q         | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 65         | Q         | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 63         | Q         | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 44         |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 18         | Q         | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 59         | Q         | 61-155              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 18         | Q         | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 46         | Q         | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 17         | Q         | 24-159              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102822-01  
 Client ID: SB-14 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 01/31/21 12:24  
 Analyst: SG  
 Percent Solids: 82%

Extraction Method: ALPHA 23528  
 Extraction Date: 01/30/21 05:50

| Parameter                                                      | Result     | Qualifier | Units     | RL                  | MDL   | Dilution Factor |
|----------------------------------------------------------------|------------|-----------|-----------|---------------------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |            |           |           |                     |       |                 |
| Perfluorooctanesulfonamide (FOSA)                              | ND         |           | ng/g      | 0.539               | 0.106 | 1               |
| Surrogate (Extracted Internal Standard)                        | % Recovery |           | Qualifier | Acceptance Criteria |       |                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                      | 63         |           |           | 10-117              |       |                 |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/21/21 22:25  
 Analyst: IM  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 450 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 82. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 81. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 950 | 92. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 95. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02

Date Collected: 01/19/21 07:50

Client ID: SB-14 (17.5-19.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 640 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 61. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.1 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 66         |           | 25-120              |
| Phenol-d6            | 65         |           | 10-120              |
| Nitrobenzene-d5      | 61         |           | 23-120              |
| 2-Fluorobiphenyl     | 72         |           | 30-120              |
| 2,4,6-Tribromophenol | 78         |           | 10-136              |
| 4-Terphenyl-d14      | 74         |           | 18-120              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-03  
 Client ID: SB-12 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/23/21 01:59  
 Analyst: SZ  
 Percent Solids: 80%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 21. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 23. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 54. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 41. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 35. | 1               |
| Fluoranthene                                     | 320    |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 22. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 35. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 30. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 580 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 33. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 25. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 70. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 51. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 69. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-03

Date Collected: 01/19/21 08:00

Client ID: SB-12 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 19. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 43. | 1               |
| Benzo(a)anthracene                               | 180    |           | ug/kg | 120 | 23. | 1               |
| Benzo(a)pyrene                                   | 190    |           | ug/kg | 160 | 50. | 1               |
| Benzo(b)fluoranthene                             | 260    |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | 68     | J         | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 180    |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | 40     | J         | ug/kg | 120 | 40. | 1               |
| Benzo(ghi)perylene                               | 120    | J         | ug/kg | 160 | 24. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 20. | 1               |
| Phenanthrene                                     | 160    |           | ug/kg | 120 | 25. | 1               |
| Dibenzo(a,h)anthracene                           | 31     | J         | ug/kg | 120 | 24. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 120    | J         | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 310    |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 460 | 47. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 37. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 39. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 84. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 33. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 67. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 440 | 76. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 83. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 980 | 95. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 530 | 98. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 45. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 31. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 32. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 32. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-03

Date Collected: 01/19/21 08:00

Client ID: SB-12 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 39. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 660 | 210 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 62. | 1               |
| Carbazole                                        | 20     | J         | ug/kg | 200 | 20. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 64         |           | 25-120              |
| Phenol-d6            | 68         |           | 10-120              |
| Nitrobenzene-d5      | 70         |           | 23-120              |
| 2-Fluorobiphenyl     | 70         |           | 30-120              |
| 2,4,6-Tribromophenol | 78         |           | 10-136              |
| 4-Terphenyl-d14      | 54         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-04  
 Client ID: SB-12 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/21/21 22:50  
 Analyst: IM  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 52. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 39. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 33. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 560 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 25. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 68. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 49. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 37. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 66. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-04  
 Client ID: SB-12 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 41. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 31. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 120 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 30. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 38. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 27. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 120 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 440 | 45. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 81. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 37. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 29. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 31. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 64. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 420 | 74. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 270 | 80. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 940 | 91. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 510 | 94. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 43. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 30. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-04

Date Collected: 01/19/21 08:40

Client ID: SB-12 (6.5-8.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 37. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 630 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 60. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 29  | 9.0 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 60         |           | 25-120              |
| Phenol-d6            | 60         |           | 10-120              |
| Nitrobenzene-d5      | 57         |           | 23-120              |
| 2-Fluorobiphenyl     | 71         |           | 30-120              |
| 2,4,6-Tribromophenol | 75         |           | 10-136              |
| 4-Terphenyl-d14      | 73         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05  
 Client ID: SB-15 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 02:09  
 Analyst: IM  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 35. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 52. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 39. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 33. | 1               |
| Fluoranthene                                     | 300    |           | ug/kg | 120 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 33. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 560 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 31. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 25. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 30. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 67. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 49. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 66. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-05  
 Client ID: SB-15 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 41. | 1               |
| Benzo(a)anthracene                               | 170    |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | 120    | J         | ug/kg | 160 | 47. | 1               |
| Benzo(b)fluoranthene                             | 160    |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | 56     | J         | ug/kg | 120 | 31. | 1               |
| Chrysene                                         | 160    |           | ug/kg | 120 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 30. | 1               |
| Anthracene                                       | 44     | J         | ug/kg | 120 | 38. | 1               |
| Benzo(ghi)perylene                               | 74     | J         | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 19. | 1               |
| Phenanthrene                                     | 200    |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | 23     | J         | ug/kg | 120 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 81     | J         | ug/kg | 160 | 27. | 1               |
| Pyrene                                           | 270    |           | ug/kg | 120 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 440 | 45. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 35. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 80. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 37. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 31. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 64. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 420 | 73. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 270 | 79. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 930 | 91. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 500 | 93. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 43. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 30. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 30. | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05

Date Collected: 01/19/21 09:00

Client ID: SB-15 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 37. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 630 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 60. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 29  | 8.9 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 65         |           | 25-120              |
| Phenol-d6            | 68         |           | 10-120              |
| Nitrobenzene-d5      | 65         |           | 23-120              |
| 2-Fluorobiphenyl     | 74         |           | 30-120              |
| 2,4,6-Tribromophenol | 86         |           | 10-136              |
| 4-Terphenyl-d14      | 66         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/21/21 23:15  
 Analyst: IM  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 52. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 560 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 68. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 37. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 67. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 120 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 30. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 38. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 450 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 82. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 37. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 29. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 65. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 74. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 81. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 950 | 92. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 510 | 95. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 43. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-06

Date Collected: 01/19/21 09:30

Client ID: SB-15 (14.5-16.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 640 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 60. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.1 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 64         |           | 25-120              |
| Phenol-d6            | 67         |           | 10-120              |
| Nitrobenzene-d5      | 64         |           | 23-120              |
| 2-Fluorobiphenyl     | 75         |           | 30-120              |
| 2,4,6-Tribromophenol | 77         |           | 10-136              |
| 4-Terphenyl-d14      | 78         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-07  
 Client ID: SB-11 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 00:30  
 Analyst: IM  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 21. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | 170    |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | 89     | J         | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | 80     | J         | ug/kg | 160 | 49. | 1               |
| Benzo(b)fluoranthene                             | 120    |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | 34     | J         | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 86     | J         | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | 56     | J         | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | 93     | J         | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 61     | J         | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 140    |           | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 460 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 83. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 82. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 960 | 93. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 96. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 31. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 650 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 61. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.2 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 56         |           | 25-120              |
| Phenol-d6            | 60         |           | 10-120              |
| Nitrobenzene-d5      | 62         |           | 23-120              |
| 2-Fluorobiphenyl     | 73         |           | 30-120              |
| 2,4,6-Tribromophenol | 81         |           | 10-136              |
| 4-Terphenyl-d14      | 63         |           | 18-120              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-08  
 Client ID: SB-11 (5-7)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 00:05  
 Analyst: IM  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 21. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 200 | 23. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 36. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 34. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 200 | 35. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | 40     | J         | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 51. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 23. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 49. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 21     | J         | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 24. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 20. | 1               |
| Phenanthrene                                     | 26     | J         | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 36     | J         | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 460 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 39. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 83. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 82. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 960 | 94. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 96. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 31. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 650 | 200 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 200 | 61. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 20. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.2 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 56         |           | 25-120              |
| Phenol-d6            | 57         |           | 10-120              |
| Nitrobenzene-d5      | 57         |           | 23-120              |
| 2-Fluorobiphenyl     | 71         |           | 30-120              |
| 2,4,6-Tribromophenol | 74         |           | 10-136              |
| 4-Terphenyl-d14      | 69         |           | 18-120              |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-09  
 Client ID: SB-16 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:20  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 02:34  
 Analyst: IM  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 32. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 50. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 38. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 32. | 1               |
| Fluoranthene                                     | 110    |           | ug/kg | 110 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 31. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 23. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 28. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 66. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 48. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 36. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 64. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-09

Date Collected: 01/19/21 10:20

Client ID: SB-16 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 40. | 1               |
| Benzo(a)anthracene                               | 78     | J         | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | 72     | J         | ug/kg | 150 | 46. | 1               |
| Benzo(b)fluoranthene                             | 94     | J         | ug/kg | 110 | 32. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | 72     | J         | ug/kg | 110 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 29. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 37. | 1               |
| Benzo(ghi)perylene                               | 49     | J         | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 18. | 1               |
| Phenanthrene                                     | 46     | J         | ug/kg | 110 | 23. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 45     | J         | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | 120    |           | ug/kg | 110 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 430 | 44. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 34. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 78. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 36. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 30. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 62. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 410 | 71. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 77. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 910 | 88. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 490 | 91. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 42. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 29. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 30. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-09

Date Collected: 01/19/21 10:20

Client ID: SB-16 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 36. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 610 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 58. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 28  | 8.7 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 62         |           | 25-120              |
| Phenol-d6            | 68         |           | 10-120              |
| Nitrobenzene-d5      | 70         |           | 23-120              |
| 2-Fluorobiphenyl     | 78         |           | 30-120              |
| 2,4,6-Tribromophenol | 87         |           | 10-136              |
| 4-Terphenyl-d14      | 63         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10  
 Client ID: SB-16 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 05:27  
 Analyst: IM  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 51. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 38. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 33. | 1               |
| Fluoranthene                                     | 220    |           | ug/kg | 110 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 33. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 550 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 31. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 25. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 23. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 28. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 30. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 66. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 48. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 36. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 65. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 40. | 1               |
| Benzo(a)anthracene                               | 100    | J         | ug/kg | 110 | 22. | 1               |
| Benzo(a)pyrene                                   | 100    | J         | ug/kg | 150 | 47. | 1               |
| Benzo(b)fluoranthene                             | 140    |           | ug/kg | 110 | 32. | 1               |
| Benzo(k)fluoranthene                             | 53     | J         | ug/kg | 110 | 31. | 1               |
| Chrysene                                         | 110    |           | ug/kg | 110 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 30. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 37. | 1               |
| Benzo(ghi)perylene                               | 73     | J         | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 19. | 1               |
| Phenanthrene                                     | 140    |           | ug/kg | 110 | 23. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 77     | J         | ug/kg | 150 | 27. | 1               |
| Pyrene                                           | 180    |           | ug/kg | 110 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 440 | 44. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 35. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 79. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 36. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 31. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 63. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 410 | 72. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 270 | 78. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 920 | 89. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 500 | 92. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 42. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 30. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 30. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 37. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 620 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 59. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 29  | 8.8 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 66         |           | 25-120              |
| Phenol-d6            | 70         |           | 10-120              |
| Nitrobenzene-d5      | 68         |           | 23-120              |
| 2-Fluorobiphenyl     | 81         |           | 30-120              |
| 2,4,6-Tribromophenol | 92         |           | 10-136              |
| 4-Terphenyl-d14      | 77         |           | 18-120              |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-11  
 Client ID: SB-17 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/22/21 00:54  
 Analyst: IM  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 19. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 180 | 21. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 25. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 33. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 180 | 32. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 49. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 37. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 32. | 1               |
| Fluoranthene                                     | 24     | J         | ug/kg | 110 | 21. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 220 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 27. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 530 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 30. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 27. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 180 | 64. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 47. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 35. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 63. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 39. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 45. | 1               |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 31. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 28. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 36. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 180 | 18. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 21. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | 22     | J         | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 420 | 43. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 34. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 36. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 35. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 76. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 180 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 220 | 22. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 19. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 35. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 30. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 61. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 400 | 70. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 75. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 890 | 86. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 480 | 89. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 41. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 29. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 29. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 35. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 600 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 180 | 57. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 180 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 28  | 8.5 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 64         |           | 25-120              |
| Phenol-d6            | 67         |           | 10-120              |
| Nitrobenzene-d5      | 67         |           | 23-120              |
| 2-Fluorobiphenyl     | 74         |           | 30-120              |
| 2,4,6-Tribromophenol | 85         |           | 10-136              |
| 4-Terphenyl-d14      | 68         |           | 18-120              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12  
 Client ID: SB-17 (9-11)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 11:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 01/23/21 01:35  
 Analyst: SZ  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 10:44

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 20. | 1               |
| 1,2,4-Trichlorobenzene                           | ND     |           | ug/kg | 190 | 22. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 1,2-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 34. | 1               |
| 1,3-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 32. | 1               |
| 1,4-Dichlorobenzene                              | ND     |           | ug/kg | 190 | 33. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 50. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 38. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 32. | 1               |
| Fluoranthene                                     | 73     | J         | ug/kg | 110 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 540 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 30. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 23. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 28. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 29. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 65. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 47. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 36. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 64. | 1               |

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-12

Date Collected: 01/19/21 11:00

Client ID: SB-17 (9-11)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 40. | 1               |
| Benzo(a)anthracene                               | 42     | J         | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 46. | 1               |
| Benzo(b)fluoranthene                             | 54     | J         | ug/kg | 110 | 32. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | 45     | J         | ug/kg | 110 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 29. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 37. | 1               |
| Benzo(ghi)perylene                               | 30     | J         | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 18. | 1               |
| Phenanthrene                                     | 32     | J         | ug/kg | 110 | 23. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 30     | J         | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | 65     | J         | ug/kg | 110 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 430 | 44. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 34. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 36. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 78. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 36. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 30. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 62. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 410 | 71. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 77. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 900 | 88. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 490 | 90. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 41. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 28. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 29. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 30. | 1               |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12

Date Collected: 01/19/21 11:00

Client ID: SB-17 (9-11)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 36. | 1               |
| Benzoic Acid                                     | ND     |           | ug/kg | 610 | 190 | 1               |
| Benzyl Alcohol                                   | ND     |           | ug/kg | 190 | 58. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 18. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 28  | 8.7 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 62         |           | 25-120              |
| Phenol-d6            | 65         |           | 10-120              |
| Nitrobenzene-d5      | 63         |           | 23-120              |
| 2-Fluorobiphenyl     | 69         |           | 30-120              |
| 2,4,6-Tribromophenol | 75         |           | 10-136              |
| 4-Terphenyl-d14      | 60         |           | 18-120              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/21/21 20:17  
**Analyst:** JRW

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 10:44

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1456855-1 |        |           |       |     |     |
| Acenaphthene                                                                             | ND     |           | ug/kg | 130 | 17. |
| 1,2,4-Trichlorobenzene                                                                   | ND     |           | ug/kg | 160 | 19. |
| Hexachlorobenzene                                                                        | ND     |           | ug/kg | 99  | 18. |
| Bis(2-chloroethyl)ether                                                                  | ND     |           | ug/kg | 150 | 22. |
| 2-Chloronaphthalene                                                                      | ND     |           | ug/kg | 160 | 16. |
| 1,2-Dichlorobenzene                                                                      | ND     |           | ug/kg | 160 | 30. |
| 1,3-Dichlorobenzene                                                                      | ND     |           | ug/kg | 160 | 28. |
| 1,4-Dichlorobenzene                                                                      | ND     |           | ug/kg | 160 | 29. |
| 3,3'-Dichlorobenzidine                                                                   | ND     |           | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene                                                                       | ND     |           | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene                                                                       | ND     |           | ug/kg | 160 | 28. |
| Fluoranthene                                                                             | ND     |           | ug/kg | 99  | 19. |
| 4-Chlorophenyl phenyl ether                                                              | ND     |           | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether                                                               | ND     |           | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether                                                              | ND     |           | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane                                                               | ND     |           | ug/kg | 180 | 16. |
| Hexachlorobutadiene                                                                      | ND     |           | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene                                                                | ND     |           | ug/kg | 470 | 150 |
| Hexachloroethane                                                                         | ND     |           | ug/kg | 130 | 27. |
| Isophorone                                                                               | ND     |           | ug/kg | 150 | 21. |
| Naphthalene                                                                              | ND     |           | ug/kg | 160 | 20. |
| Nitrobenzene                                                                             | ND     |           | ug/kg | 150 | 24. |
| NDPA/DPA                                                                                 | ND     |           | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine                                                                | ND     |           | ug/kg | 160 | 26. |
| Bis(2-ethylhexyl)phthalate                                                               | ND     |           | ug/kg | 160 | 57. |
| Butyl benzyl phthalate                                                                   | ND     |           | ug/kg | 160 | 42. |
| Di-n-butylphthalate                                                                      | ND     |           | ug/kg | 160 | 31. |
| Di-n-octylphthalate                                                                      | ND     |           | ug/kg | 160 | 56. |
| Diethyl phthalate                                                                        | ND     |           | ug/kg | 160 | 15. |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8270D  
Analytical Date: 01/21/21 20:17  
Analyst: JRW

Extraction Method: EPA 3546  
Extraction Date: 01/20/21 10:44

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1456855-1 |        |           |       |     |     |
| Dimethyl phthalate                                                                       | ND     |           | ug/kg | 160 | 35. |
| Benzo(a)anthracene                                                                       | ND     |           | ug/kg | 99  | 19. |
| Benzo(a)pyrene                                                                           | ND     |           | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene                                                                     | ND     |           | ug/kg | 99  | 28. |
| Benzo(k)fluoranthene                                                                     | ND     |           | ug/kg | 99  | 26. |
| Chrysene                                                                                 | ND     |           | ug/kg | 99  | 17. |
| Acenaphthylene                                                                           | ND     |           | ug/kg | 130 | 26. |
| Anthracene                                                                               | ND     |           | ug/kg | 99  | 32. |
| Benzo(ghi)perylene                                                                       | ND     |           | ug/kg | 130 | 19. |
| Fluorene                                                                                 | ND     |           | ug/kg | 160 | 16. |
| Phenanthrene                                                                             | ND     |           | ug/kg | 99  | 20. |
| Dibenzo(a,h)anthracene                                                                   | ND     |           | ug/kg | 99  | 19. |
| Indeno(1,2,3-cd)pyrene                                                                   | ND     |           | ug/kg | 130 | 23. |
| Pyrene                                                                                   | ND     |           | ug/kg | 99  | 16. |
| Biphenyl                                                                                 | ND     |           | ug/kg | 380 | 38. |
| 4-Chloroaniline                                                                          | ND     |           | ug/kg | 160 | 30. |
| 2-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 32. |
| 3-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 31. |
| 4-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 68. |
| Dibenzofuran                                                                             | ND     |           | ug/kg | 160 | 16. |
| 2-Methylnaphthalene                                                                      | ND     |           | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene                                                               | ND     |           | ug/kg | 160 | 17. |
| Acetophenone                                                                             | ND     |           | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol                                                                    | ND     |           | ug/kg | 99  | 31. |
| p-Chloro-m-cresol                                                                        | ND     |           | ug/kg | 160 | 25. |
| 2-Chlorophenol                                                                           | ND     |           | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol                                                                       | ND     |           | ug/kg | 150 | 26. |
| 2,4-Dimethylphenol                                                                       | ND     |           | ug/kg | 160 | 54. |
| 2-Nitrophenol                                                                            | ND     |           | ug/kg | 360 | 62. |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8270D  
**Analytical Date:** 01/21/21 20:17  
**Analyst:** JRW

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 10:44

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1456855-1 |        |           |       |     |     |
| 4-Nitrophenol                                                                            | ND     |           | ug/kg | 230 | 67. |
| 2,4-Dinitrophenol                                                                        | ND     |           | ug/kg | 790 | 77. |
| 4,6-Dinitro-o-cresol                                                                     | ND     |           | ug/kg | 430 | 79. |
| Pentachlorophenol                                                                        | ND     |           | ug/kg | 130 | 36. |
| Phenol                                                                                   | ND     |           | ug/kg | 160 | 25. |
| 2-Methylphenol                                                                           | ND     |           | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol                                                            | ND     |           | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol                                                                    | ND     |           | ug/kg | 160 | 32. |
| Benzoic Acid                                                                             | ND     |           | ug/kg | 540 | 170 |
| Benzyl Alcohol                                                                           | ND     |           | ug/kg | 160 | 50. |
| Carbazole                                                                                | ND     |           | ug/kg | 160 | 16. |
| 1,4-Dioxane                                                                              | ND     |           | ug/kg | 25  | 7.6 |

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 72        |           | 25-120              |
| Phenol-d6            | 73        |           | 10-120              |
| Nitrobenzene-d5      | 70        |           | 23-120              |
| 2-Fluorobiphenyl     | 76        |           | 30-120              |
| 2,4,6-Tribromophenol | 79        |           | 10-136              |
| 4-Terphenyl-d14      | 78        |           | 18-120              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/30/21 16:17  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL    | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1460241-1 |        |           |       |       |       |
| Perfluorobutanoic Acid (PFBA)                                                                       | ND     |           | ng/g  | 0.500 | 0.023 |
| Perfluoropentanoic Acid (PFPeA)                                                                     | ND     |           | ng/g  | 0.500 | 0.046 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                 | ND     |           | ng/g  | 0.250 | 0.039 |
| Perfluorohexanoic Acid (PFHxA)                                                                      | ND     |           | ng/g  | 0.500 | 0.053 |
| Perfluoroheptanoic Acid (PFHpA)                                                                     | ND     |           | ng/g  | 0.250 | 0.045 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                | ND     |           | ng/g  | 0.250 | 0.061 |
| Perfluorooctanoic Acid (PFOA)                                                                       | ND     |           | ng/g  | 0.250 | 0.042 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                   | ND     |           | ng/g  | 0.500 | 0.180 |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                               | ND     |           | ng/g  | 0.500 | 0.136 |
| Perfluorononanoic Acid (PFNA)                                                                       | ND     |           | ng/g  | 0.250 | 0.075 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                 | ND     |           | ng/g  | 0.250 | 0.130 |
| Perfluorodecanoic Acid (PFDA)                                                                       | ND     |           | ng/g  | 0.250 | 0.067 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                   | ND     |           | ng/g  | 0.500 | 0.287 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                           | ND     |           | ng/g  | 0.500 | 0.202 |
| Perfluoroundecanoic Acid (PFUnA)                                                                    | ND     |           | ng/g  | 0.500 | 0.047 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                 | ND     |           | ng/g  | 0.500 | 0.153 |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ng/g  | 0.500 | 0.098 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                            | ND     |           | ng/g  | 0.500 | 0.085 |
| Perfluorododecanoic Acid (PFDoA)                                                                    | ND     |           | ng/g  | 0.500 | 0.070 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                  | ND     |           | ng/g  | 0.500 | 0.204 |
| Perfluorotetradecanoic Acid (PFTA)                                                                  | ND     |           | ng/g  | 0.500 | 0.054 |
| PFOA/PFOS, Total                                                                                    | ND     |           | ng/g  | 0.250 | 0.042 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 01/30/21 16:17  
 Analyst: SG

Extraction Method: ALPHA 23528  
 Extraction Date: 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1460241-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 104       |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 115       |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 118       |           | 74-139              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 117       |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 111       |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 119       |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 105       |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 65        |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 111       |           | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 106       |           | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 105       |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 76        |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 72        |           | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105       |           | 61-155              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 51        |           | 10-117              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 62        |           | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 97        |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 73        |           | 24-159              |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 01/31/21 12:10  
Analyst: SG

Extraction Method: ALPHA 23528  
Extraction Date: 01/30/21 05:50

| Parameter                                                                                           | Result | Qualifier | Units | RL    | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1460241-1 |        |           |       |       |       |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ng/g  | 0.500 | 0.098 |

| Surrogate (Extracted Internal Standard)   | %Recovery | Qualifier | Acceptance Criteria |
|-------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 78        |           | 10-117              |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1456855-2 WG1456855-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                                | 73               |      | 82                |      | 31-137              | 12  |      | 50            |
| 1,2,4-Trichlorobenzene                                                                                      | 72               |      | 82                |      | 38-107              | 13  |      | 50            |
| Hexachlorobenzene                                                                                           | 77               |      | 86                |      | 40-140              | 11  |      | 50            |
| Bis(2-chloroethyl)ether                                                                                     | 66               |      | 76                |      | 40-140              | 14  |      | 50            |
| 2-Chloronaphthalene                                                                                         | 74               |      | 84                |      | 40-140              | 13  |      | 50            |
| 1,2-Dichlorobenzene                                                                                         | 66               |      | 73                |      | 40-140              | 10  |      | 50            |
| 1,3-Dichlorobenzene                                                                                         | 62               |      | 70                |      | 40-140              | 12  |      | 50            |
| 1,4-Dichlorobenzene                                                                                         | 63               |      | 72                |      | 28-104              | 13  |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                      | 52               |      | 60                |      | 40-140              | 14  |      | 50            |
| 2,4-Dinitrotoluene                                                                                          | 71               |      | 80                |      | 40-132              | 12  |      | 50            |
| 2,6-Dinitrotoluene                                                                                          | 87               |      | 96                |      | 40-140              | 10  |      | 50            |
| Fluoranthene                                                                                                | 71               |      | 81                |      | 40-140              | 13  |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                                 | 72               |      | 80                |      | 40-140              | 11  |      | 50            |
| 4-Bromophenyl phenyl ether                                                                                  | 76               |      | 83                |      | 40-140              | 9   |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                                 | 64               |      | 71                |      | 40-140              | 10  |      | 50            |
| Bis(2-chloroethoxy)methane                                                                                  | 73               |      | 81                |      | 40-117              | 10  |      | 50            |
| Hexachlorobutadiene                                                                                         | 68               |      | 78                |      | 40-140              | 14  |      | 50            |
| Hexachlorocyclopentadiene                                                                                   | 72               |      | 82                |      | 40-140              | 13  |      | 50            |
| Hexachloroethane                                                                                            | 66               |      | 72                |      | 40-140              | 9   |      | 50            |
| Isophorone                                                                                                  | 75               |      | 83                |      | 40-140              | 10  |      | 50            |
| Naphthalene                                                                                                 | 69               |      | 78                |      | 40-140              | 12  |      | 50            |
| Nitrobenzene                                                                                                | 73               |      | 82                |      | 40-140              | 12  |      | 50            |
| NDPA/DPA                                                                                                    | 75               |      | 84                |      | 36-157              | 11  |      | 50            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1456855-2 WG1456855-3 |                  |      |                   |      |                     |     |      |               |
| n-Nitrosodi-n-propylamine                                                                                   | 74               |      | 83                |      | 32-121              | 11  |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                                  | 80               |      | 90                |      | 40-140              | 12  |      | 50            |
| Butyl benzyl phthalate                                                                                      | 76               |      | 86                |      | 40-140              | 12  |      | 50            |
| Di-n-butylphthalate                                                                                         | 79               |      | 88                |      | 40-140              | 11  |      | 50            |
| Di-n-octylphthalate                                                                                         | 76               |      | 85                |      | 40-140              | 11  |      | 50            |
| Diethyl phthalate                                                                                           | 76               |      | 84                |      | 40-140              | 10  |      | 50            |
| Dimethyl phthalate                                                                                          | 81               |      | 90                |      | 40-140              | 11  |      | 50            |
| Benzo(a)anthracene                                                                                          | 72               |      | 80                |      | 40-140              | 11  |      | 50            |
| Benzo(a)pyrene                                                                                              | 72               |      | 80                |      | 40-140              | 11  |      | 50            |
| Benzo(b)fluoranthene                                                                                        | 74               |      | 84                |      | 40-140              | 13  |      | 50            |
| Benzo(k)fluoranthene                                                                                        | 72               |      | 81                |      | 40-140              | 12  |      | 50            |
| Chrysene                                                                                                    | 70               |      | 79                |      | 40-140              | 12  |      | 50            |
| Acenaphthylene                                                                                              | 78               |      | 86                |      | 40-140              | 10  |      | 50            |
| Anthracene                                                                                                  | 71               |      | 80                |      | 40-140              | 12  |      | 50            |
| Benzo(ghi)perylene                                                                                          | 73               |      | 83                |      | 40-140              | 13  |      | 50            |
| Fluorene                                                                                                    | 73               |      | 80                |      | 40-140              | 9   |      | 50            |
| Phenanthrene                                                                                                | 70               |      | 78                |      | 40-140              | 11  |      | 50            |
| Dibenzo(a,h)anthracene                                                                                      | 74               |      | 82                |      | 40-140              | 10  |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                      | 73               |      | 83                |      | 40-140              | 13  |      | 50            |
| Pyrene                                                                                                      | 71               |      | 80                |      | 35-142              | 12  |      | 50            |
| Biphenyl                                                                                                    | 71               |      | 80                |      | 37-127              | 12  |      | 50            |
| 4-Chloroaniline                                                                                             | 48               |      | 51                |      | 40-140              | 6   |      | 50            |
| 2-Nitroaniline                                                                                              | 84               |      | 95                |      | 47-134              | 12  |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1456855-2 WG1456855-3 |                  |      |                   |      |                     |     |      |               |
| 3-Nitroaniline                                                                                              | 65               |      | 69                |      | 26-129              | 6   |      | 50            |
| 4-Nitroaniline                                                                                              | 78               |      | 88                |      | 41-125              | 12  |      | 50            |
| Dibenzofuran                                                                                                | 72               |      | 79                |      | 40-140              | 9   |      | 50            |
| 2-Methylnaphthalene                                                                                         | 72               |      | 81                |      | 40-140              | 12  |      | 50            |
| 1,2,4,5-Tetrachlorobenzene                                                                                  | 70               |      | 80                |      | 40-117              | 13  |      | 50            |
| Acetophenone                                                                                                | 72               |      | 80                |      | 14-144              | 11  |      | 50            |
| 2,4,6-Trichlorophenol                                                                                       | 82               |      | 90                |      | 30-130              | 9   |      | 50            |
| p-Chloro-m-cresol                                                                                           | 83               |      | 92                |      | 26-103              | 10  |      | 50            |
| 2-Chlorophenol                                                                                              | 73               |      | 82                |      | 25-102              | 12  |      | 50            |
| 2,4-Dichlorophenol                                                                                          | 83               |      | 92                |      | 30-130              | 10  |      | 50            |
| 2,4-Dimethylphenol                                                                                          | 78               |      | 87                |      | 30-130              | 11  |      | 50            |
| 2-Nitrophenol                                                                                               | 81               |      | 89                |      | 30-130              | 9   |      | 50            |
| 4-Nitrophenol                                                                                               | 80               |      | 90                |      | 11-114              | 12  |      | 50            |
| 2,4-Dinitrophenol                                                                                           | 75               |      | 84                |      | 4-130               | 11  |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                        | 75               |      | 86                |      | 10-130              | 14  |      | 50            |
| Pentachlorophenol                                                                                           | 78               |      | 86                |      | 17-109              | 10  |      | 50            |
| Phenol                                                                                                      | 75               |      | 81                |      | 26-90               | 8   |      | 50            |
| 2-Methylphenol                                                                                              | 79               |      | 87                |      | 30-130              | 10  |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                               | 80               |      | 89                |      | 30-130              | 11  |      | 50            |
| 2,4,5-Trichlorophenol                                                                                       | 86               |      | 96                |      | 30-130              | 11  |      | 50            |
| Benzoic Acid                                                                                                | 58               |      | 72                |      | 10-110              | 22  |      | 50            |
| Benzyl Alcohol                                                                                              | 74               |      | 81                |      | 40-140              | 9   |      | 50            |
| Carbazole                                                                                                   | 73               |      | 81                |      | 54-128              | 10  |      | 50            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| <b>Parameter</b>                                                                                            | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1456855-2 WG1456855-3 |                          |             |                           |             |                             |            |             |                       |
| 1,4-Dioxane                                                                                                 | 52                       |             | 55                        |             | 40-140                      | 6          |             | 50                    |

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 69                       |             | 81                        |             | 25-120                         |
| Phenol-d6            | 75                       |             | 83                        |             | 10-120                         |
| Nitrobenzene-d5      | 72                       |             | 81                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 72                       |             | 82                        |             | 30-120                         |
| 2,4,6-Tribromophenol | 82                       |             | 95                        |             | 10-136                         |
| 4-Terphenyl-d14      | 68                       |             | 78                        |             | 18-120                         |



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1460241-2 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                              | 100              |      | -                 |      | 71-135              | -   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                            | 103              |      | -                 |      | 69-132              | -   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                        | 108              |      | -                 |      | 72-128              | -   |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                             | 103              |      | -                 |      | 70-132              | -   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                            | 100              |      | -                 |      | 71-131              | -   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                       | 103              |      | -                 |      | 67-130              | -   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                              | 101              |      | -                 |      | 69-133              | -   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                          | 106              |      | -                 |      | 64-140              | -   |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                      | 107              |      | -                 |      | 70-132              | -   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                              | 96               |      | -                 |      | 72-129              | -   |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                        | 110              |      | -                 |      | 68-136              | -   |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                              | 103              |      | -                 |      | 69-133              | -   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                          | 130              |      | -                 |      | 65-137              | -   |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                  | 103              |      | -                 |      | 63-144              | -   |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                           | 106              |      | -                 |      | 64-136              | -   |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                        | 114              |      | -                 |      | 59-134              | -   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                          | 101              |      | -                 |      | 67-137              | -   |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                   | 112              |      | -                 |      | 61-139              | -   |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                           | 105              |      | -                 |      | 69-135              | -   |      | 30            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                         | 99               |      | -                 |      | 66-139              | -   |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                         | 112              |      | -                 |      | 69-133              | -   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1460241-2 |                  |      |                   |      |                     |     |      |               |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|-------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 96               |      |                   |      | 61-135                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 105              |      |                   |      | 58-150                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 111              |      |                   |      | 74-139                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 110              |      |                   |      | 66-128                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 105              |      |                   |      | 71-129                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 111              |      |                   |      | 78-139                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 99               |      |                   |      | 75-130                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 63               |      |                   |      | 20-154                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 103              |      |                   |      | 72-140                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 100              |      |                   |      | 79-136                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 99               |      |                   |      | 75-130                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 65               |      |                   |      | 19-175                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 66               |      |                   |      | 31-134                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 100              |      |                   |      | 61-155                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 31               |      |                   |      | 10-117                 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 57               |      |                   |      | 34-137                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 92               |      |                   |      | 54-150                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 70               |      |                   |      | 24-159                 |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21

| <b>Parameter</b>                                                                                           | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1460241-2 |                          |             |                           |             |                             |            |             |                       |
| Perfluorooctanesulfonamide (FOSA)                                                                          | 109                      |             | -                         |             | 67-137                      | -          |             | 30                    |

| <b>Surrogate (Extracted Internal Standard)</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|------------------------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)      | 78                       |             |                           |             | 10-117                         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                                                    | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460241-3 QC Sample: L2102678-05 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                | 0.052J        | 5.42     | 5.40     | 99           |      | -         | -             |      | 71-135          | -   |      | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                              | 0.072J        | 5.42     | 5.64     | 103          |      | -         | -             |      | 69-132          | -   |      | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                          | ND            | 4.81     | 5.30     | 110          |      | -         | -             |      | 72-128          | -   |      | 30         |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                                                            | ND            | 5.07     | 5.76     | 114          |      | -         | -             |      | 62-145          | -   |      | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                               | ND            | 5.42     | 5.59     | 103          |      | -         | -             |      | 70-132          | -   |      | 30         |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                                                                        | ND            | 5.09     | 5.30     | 104          |      | -         | -             |      | 73-123          | -   |      | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                              | 0.050J        | 5.42     | 5.55     | 102          |      | -         | -             |      | 71-131          | -   |      | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                         | ND            | 4.95     | 5.12     | 103          |      | -         | -             |      | 67-130          | -   |      | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                | 2.39          | 5.42     | 8.29     | 109          |      | -         | -             |      | 69-133          | -   |      | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                            | ND            | 5.16     | 5.80     | 112          |      | -         | -             |      | 64-140          | -   |      | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                        | ND            | 5.16     | 5.96     | 116          |      | -         | -             |      | 70-132          | -   |      | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                | 0.157J        | 5.42     | 5.22     | 94           |      | -         | -             |      | 72-129          | -   |      | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                          | 0.928         | 5.03     | 6.63     | 113          |      | -         | -             |      | 68-136          | -   |      | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                | ND            | 5.42     | 5.61     | 104          |      | -         | -             |      | 69-133          | -   |      | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                            | ND            | 5.2      | 5.96F    | 115          |      | -         | -             |      | 65-137          | -   |      | 30         |
| Perfluorononanesulfonic Acid (PFNS)                                                                                                                          | ND            | 5.21     | 6.12     | 117          |      | -         | -             |      | 69-125          | -   |      | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                    | ND            | 5.42     | 4.99     | 92           |      | -         | -             |      | 63-144          | -   |      | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                             | ND            | 5.42     | 5.76     | 106          |      | -         | -             |      | 64-136          | -   |      | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                          | ND            | 5.22     | 6.59     | 126          |      | -         | -             |      | 59-134          | -   |      | 30         |
| Perfluorooctanesulfonamide (FOSA)                                                                                                                            | ND            | 5.42     | 4.99     | 92           |      | -         | -             |      | 67-137          | -   |      | 30         |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                     | 0.095J        | 5.42     | 5.38     | 98           |      | -         | -             |      | 61-139          | -   |      | 30         |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                             | ND            | 5.42     | 5.90     | 109          |      | -         | -             |      | 69-135          | -   |      | 30         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                                                    | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460241-3 QC Sample: L2102678-05 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                           | ND            | 5.42     | 5.43     | 100          |      | -         | -             |      | 66-139          | -   |      | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                           | ND            | 5.42     | 6.27     | 116          |      | -         | -             |      | 69-133          | -   |      | 30         |

| Surrogate (Extracted Internal Standard)                                | MS % Recovery | Qualifier | MSD % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|---------------|-----------|----------------|-----------|---------------------|
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 78            |           |                |           | 19-175              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 93            |           |                |           | 14-167              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 65            |           |                |           | 20-154              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 63            |           |                |           | 34-137              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 76            |           |                |           | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 98            |           |                |           | 61-155              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 100           |           |                |           | 75-130              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 109           |           |                |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 102           |           |                |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 107           |           |                |           | 78-139              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 90            |           |                |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 69            |           |                |           | 24-159              |
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 97            |           |                |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 106           |           |                |           | 58-150              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 15            |           |                |           | 10-117              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 97            |           |                |           | 79-136              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 99            |           |                |           | 75-130              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 106           |           |                |           | 72-140              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 109           |           |                |           | 74-139              |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: SB-14 (0-2) |               |                  |       |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                  | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                                | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                            | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                                 | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                                | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                           | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                  | 1.56          | 1.40             | ng/g  | 11  |      | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                              | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                          | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                  | 0.337         | 0.315            | ng/g  | 7   |      | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                            | 0.602         | 0.510            | ng/g  | 17  |      | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                  | ND            | ND               | ng/g  | NC  |      | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                              | ND            | ND               | ng/g  | NC  |      | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                      | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                               | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                            | ND            | ND               | ng/g  | NC  |      | 30         |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                       | 0.144JF       | 0.105J           | ng/g  | NC  |      | 30         |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                               | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                             | ND            | ND               | ng/g  | NC  |      | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                             | ND            | ND               | ng/g  | NC  |      | 30         |

# **Lab Duplicate Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Parameter                                                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: SB-14 (0-2) |               |                  |       |     |      |            |
| PFOA/PFOS, Total                                                                                                                                               | 2.16          | 1.91             | ng/g  | 12  |      | 30         |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 67        |           | 80        |           | 61-135              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 74        |           | 87        |           | 58-150              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 79        |           | 89        |           | 74-139              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 77        |           | 90        |           | 66-128              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 72        |           | 83        |           | 71-129              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 79        |           | 89        |           | 78-139              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 68        | Q         | 79        |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 43        |           | 45        |           | 20-154              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 71        | Q         | 82        |           | 72-140              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 65        | Q         | 76        | Q         | 79-136              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 63        | Q         | 75        |           | 75-130              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 44        |           | 54        |           | 19-175              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 18        | Q         | 24        | Q         | 31-134              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 59        | Q         | 72        |           | 61-155              |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 18        | Q         | 22        | Q         | 34-137              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 46        | Q         | 57        |           | 54-150              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 17        | Q         | 23        | Q         | 24-159              |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460241-4 QC Sample: L2102822-01 Client ID: SB-14 (0-2) |               |                  |       |     |      |            |
| Perfluorooctanesulfonamide (FOSA)                                                                                                                              | ND            | ND               | ng/g  | NC  |      | 30         |

| Surrogate (Extracted Internal Standard)   | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|-------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 63        |           | 60        |           | 10-117              |



# PCBS

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-01  
**Client ID:** SB-14 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 07:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 09:34  
**Analyst:** CW  
**Percent Solids:** 82%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.0 | 3.38 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.0 | 3.81 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.0 | 8.06 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.0 | 5.12 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.0 | 5.70 | 1               | A      |
| Aroclor 1254                                      | 21.1   | JP        | ug/kg | 38.0 | 4.16 | 1               | B      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.0 | 7.03 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.0 | 4.83 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.0 | 3.94 | 1               | A      |
| PCBs, Total                                       | 21.1   | J         | ug/kg | 38.0 | 3.38 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 55         |           | 30-150              | A      |
| Decachlorobiphenyl           | 43         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150              | B      |
| Decachlorobiphenyl           | 52         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-02  
**Client ID:** SB-14 (17.5-19.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 07:50  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 09:41  
**Analyst:** CW  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.6 | 3.43 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.6 | 3.87 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.6 | 8.19 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.6 | 5.21 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.6 | 5.80 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.6 | 4.23 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.6 | 7.14 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.6 | 4.91 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.6 | 4.00 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.6 | 3.43 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | A      |
| Decachlorobiphenyl           | 52         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 81         |           | 30-150              | B      |
| Decachlorobiphenyl           | 64         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-03  
**Client ID:** SB-12 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 08:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 09:48  
**Analyst:** CW  
**Percent Solids:** 80%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 40.1 | 3.56 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 40.1 | 4.02 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 40.1 | 8.50 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 40.1 | 5.41 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 40.1 | 6.02 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 40.1 | 4.39 | 1               | A      |
| Aroclor 1260                                      | 65.8   |           | ug/kg | 40.1 | 7.41 | 1               | B      |
| Aroclor 1262                                      | ND     |           | ug/kg | 40.1 | 5.09 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 40.1 | 4.16 | 1               | A      |
| PCBs, Total                                       | 65.8   |           | ug/kg | 40.1 | 3.56 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 53         |           | 30-150              | A      |
| Decachlorobiphenyl           | 41         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 63         |           | 30-150              | B      |
| Decachlorobiphenyl           | 50         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-04  
**Client ID:** SB-12 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 08:40  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 09:55  
**Analyst:** CW  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.6 | 3.42 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.6 | 3.86 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.6 | 8.18 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.6 | 5.20 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.6 | 5.79 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.6 | 4.22 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.6 | 7.13 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.6 | 4.90 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.6 | 4.00 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.6 | 3.42 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61         |           | 30-150              | A      |
| Decachlorobiphenyl           | 49         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 73         |           | 30-150              | B      |
| Decachlorobiphenyl           | 58         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-05  
**Client ID:** SB-15 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:02  
**Analyst:** CW  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.5 | 3.42 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.5 | 3.85 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.5 | 8.15 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.5 | 5.18 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.5 | 5.77 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.5 | 4.21 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.5 | 7.11 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.5 | 4.88 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.5 | 3.98 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.5 | 3.42 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 54         |           | 30-150              | A      |
| Decachlorobiphenyl           | 44         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150              | B      |
| Decachlorobiphenyl           | 54         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-06  
**Client ID:** SB-15 (14.5-16.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:09  
**Analyst:** CW  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.8 | 3.45 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.8 | 3.89 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.8 | 8.23 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.8 | 5.23 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.8 | 5.82 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.8 | 4.25 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.8 | 7.17 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.8 | 4.93 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.8 | 4.02 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.8 | 3.45 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 67         |           | 30-150              | A      |
| Decachlorobiphenyl           | 56         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 80         |           | 30-150              | B      |
| Decachlorobiphenyl           | 65         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-07  
**Client ID:** SB-11 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:40  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:16  
**Analyst:** CW  
**Percent Solids:** 82%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 39.3 | 3.49 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 39.3 | 3.94 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 39.3 | 8.34 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 39.3 | 5.30 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 39.3 | 5.90 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 39.3 | 4.30 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 39.3 | 7.27 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 39.3 | 4.99 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 39.3 | 4.07 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 39.3 | 3.49 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 53         |           | 30-150              | A      |
| Decachlorobiphenyl           | 43         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | B      |
| Decachlorobiphenyl           | 52         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-08  
**Client ID:** SB-11 (5-7)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:23  
**Analyst:** CW  
**Percent Solids:** 82%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 40.2 | 3.57 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 40.2 | 4.03 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 40.2 | 8.52 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 40.2 | 5.42 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 40.2 | 6.03 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 40.2 | 4.40 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 40.2 | 7.43 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 40.2 | 5.10 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 40.2 | 4.16 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 40.2 | 3.57 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 53         |           | 30-150              | A      |
| Decachlorobiphenyl           | 42         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | B      |
| Decachlorobiphenyl           | 51         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-09  
**Client ID:** SB-16 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:20  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:30  
**Analyst:** CW  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 37.5 | 3.33 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 37.5 | 3.75 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 37.5 | 7.94 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 37.5 | 5.05 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 37.5 | 5.62 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 37.5 | 4.10 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 37.5 | 6.92 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 37.5 | 4.76 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 37.5 | 3.88 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 37.5 | 3.33 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 46         |           | 30-150              | A      |
| Decachlorobiphenyl           | 34         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 56         |           | 30-150              | B      |
| Decachlorobiphenyl           | 40         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-10  
**Client ID:** SB-16 (7-9)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:37  
**Analyst:** CW  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.2 | 3.40 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.2 | 3.83 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.2 | 8.11 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.2 | 5.15 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.2 | 5.74 | 1               | A      |
| Aroclor 1254                                      | 14.2   | J         | ug/kg | 38.2 | 4.18 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.2 | 7.07 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.2 | 4.86 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.2 | 3.96 | 1               | A      |
| PCBs, Total                                       | 14.2   | J         | ug/kg | 38.2 | 3.40 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 54         |           | 30-150              | A      |
| Decachlorobiphenyl           | 46         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | B      |
| Decachlorobiphenyl           | 54         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-11  
**Client ID:** SB-17 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:50  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:44  
**Analyst:** CW  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 36.3 | 3.22 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 36.3 | 3.64 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 36.3 | 7.70 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 36.3 | 4.89 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 36.3 | 5.45 | 1               | A      |
| Aroclor 1254                                      | 8.77   | J         | ug/kg | 36.3 | 3.97 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 36.3 | 6.71 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 36.3 | 4.61 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 36.3 | 3.76 | 1               | A      |
| PCBs, Total                                       | 8.77   | J         | ug/kg | 36.3 | 3.22 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 49         |           | 30-150              | A      |
| Decachlorobiphenyl           | 41         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 58         |           | 30-150              | B      |
| Decachlorobiphenyl           | 48         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-12  
**Client ID:** SB-17 (9-11)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 11:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 10:51  
**Analyst:** CW  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 37.9 | 3.37 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 37.9 | 3.80 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 37.9 | 8.04 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 37.9 | 5.11 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 37.9 | 5.69 | 1               | A      |
| Aroclor 1254                                      | 7.05   | J         | ug/kg | 37.9 | 4.15 | 1               | B      |
| Aroclor 1260                                      | ND     |           | ug/kg | 37.9 | 7.01 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 37.9 | 4.82 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 37.9 | 3.93 | 1               | A      |
| PCBs, Total                                       | 7.05   | J         | ug/kg | 37.9 | 3.37 | 1               | B      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 46         |           | 30-150              | A      |
| Decachlorobiphenyl           | 38         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 54         |           | 30-150              | B      |
| Decachlorobiphenyl           | 43         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8082A  
**Analytical Date:** 01/21/21 09:13  
**Analyst:** CW

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:49  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 01/21/21  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 01/21/21

| Parameter                                                                                 | Result | Qualifier | Units | RL   | MDL  | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-12 Batch: WG1456814-1 |        |           |       |      |      |        |
| Aroclor 1016                                                                              | ND     |           | ug/kg | 31.5 | 2.80 | A      |
| Aroclor 1221                                                                              | ND     |           | ug/kg | 31.5 | 3.15 | A      |
| Aroclor 1232                                                                              | ND     |           | ug/kg | 31.5 | 6.68 | A      |
| Aroclor 1242                                                                              | ND     |           | ug/kg | 31.5 | 4.24 | A      |
| Aroclor 1248                                                                              | ND     |           | ug/kg | 31.5 | 4.72 | A      |
| Aroclor 1254                                                                              | ND     |           | ug/kg | 31.5 | 3.44 | A      |
| Aroclor 1260                                                                              | ND     |           | ug/kg | 31.5 | 5.82 | A      |
| Aroclor 1262                                                                              | ND     |           | ug/kg | 31.5 | 4.00 | A      |
| Aroclor 1268                                                                              | ND     |           | ug/kg | 31.5 | 3.26 | A      |
| PCBs, Total                                                                               | ND     |           | ug/kg | 31.5 | 2.80 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70        |           | 30-150              | A      |
| Decachlorobiphenyl           | 62        |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 83        |           | 30-150              | B      |
| Decachlorobiphenyl           | 70        |           | 30-150              | B      |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1456814-2 WG1456814-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                                 | 73               |      | 71                |      | 40-140              | 3   |      | 50            | A      |
| Aroclor 1260                                                                                                 | 63               |      | 60                |      | 40-140              | 5   |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75               |      | 75                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 65               |      | 62                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 93               |      | 93                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 78               |      | 75                |      | 30-150                 | B      |

# PESTICIDES



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-01  
 Client ID: SB-14 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 22:51  
 Analyst: SDC  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.90  | 0.372 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.792 | 0.354 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.792 | 0.225 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.90  | 0.720 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.950 | 0.426 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.90  | 0.669 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.56  | 1.07  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.792 | 0.324 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.37  | 0.831 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.90  | 0.489 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.19  | 0.594 | 1               | A      |
| 4,4'-DDE                                          | 30.0   |           | ug/kg | 1.90  | 0.439 | 1               | A      |
| 4,4'-DDD                                          | 10.4   |           | ug/kg | 1.90  | 0.678 | 1               | A      |
| 4,4'-DDT                                          | 21.6   |           | ug/kg | 3.56  | 1.53  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.90  | 0.449 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.90  | 0.635 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.792 | 0.377 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.56  | 1.11  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.6  | 9.97  | 1               | A      |
| cis-Chlordane                                     | 1.68   | J         | ug/kg | 2.37  | 0.662 | 1               | B      |
| trans-Chlordane                                   | 4.34   | P         | ug/kg | 2.37  | 0.627 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.8  | 6.29  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63         |           | 30-150              | A      |
| Decachlorobiphenyl           | 68         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 66         |           | 30-150              | B      |
| Decachlorobiphenyl           | 72         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-01  
**Client ID:** SB-14 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 07:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/22/21 12:02  
**Analyst:** AR  
**Percent Solids:** 82%  
**Methylation Date:** 01/21/21 20:45

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/21/21 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 198 | 12.5 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 198 | 6.13 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 198 | 5.26 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 84         |           | 30-150              | A      |
| DCAA      | 78         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 23:03  
 Analyst: SDC  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.92  | 0.375 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.798 | 0.357 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.798 | 0.227 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.92  | 0.727 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.958 | 0.430 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.92  | 0.675 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.59  | 1.08  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.798 | 0.327 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.40  | 0.838 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.92  | 0.494 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.20  | 0.599 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.92  | 0.443 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.92  | 0.684 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.59  | 1.54  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.92  | 0.453 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.92  | 0.640 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.798 | 0.380 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.59  | 1.12  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.9  | 10.1  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.40  | 0.668 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.40  | 0.632 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 16.0  | 6.35  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-02

Date Collected: 01/19/21 07:50

Client ID: SB-14 (17.5-19.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65         |           | 30-150              | A      |
| Decachlorobiphenyl           | 60         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | B      |
| Decachlorobiphenyl           | 57         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102822-02  
 Client ID: SB-14 (17.5-19.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 07:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/22/21 12:20  
 Analyst: AR  
 Percent Solids: 83%  
 Methylation Date: 01/21/21 20:45

Extraction Method: EPA 8151A  
 Extraction Date: 01/21/21 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 198 | 12.5 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 198 | 6.14 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 198 | 5.27 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 88         |           | 30-150              | A      |
| DCAA      | 75         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-03  
 Client ID: SB-12 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 23:16  
 Analyst: SDC  
 Percent Solids: 80%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.96  | 0.383 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.815 | 0.364 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.815 | 0.232 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.96  | 0.742 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.978 | 0.439 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.96  | 0.689 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.67  | 1.10  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.815 | 0.334 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.45  | 0.856 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.96  | 0.504 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.22  | 0.612 | 1               | A      |
| 4,4'-DDE                                          | 3.24   |           | ug/kg | 1.96  | 0.452 | 1               | B      |
| 4,4'-DDD                                          | 5.85   |           | ug/kg | 1.96  | 0.698 | 1               | A      |
| 4,4'-DDT                                          | 8.44   | IP        | ug/kg | 3.67  | 1.57  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.96  | 0.462 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.96  | 0.654 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.815 | 0.388 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.67  | 1.14  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 36.7  | 10.3  | 1               | A      |
| cis-Chlordane                                     | 1.44   | JIP       | ug/kg | 2.45  | 0.682 | 1               | B      |
| trans-Chlordane                                   | 1.71   | JIP       | ug/kg | 2.45  | 0.646 | 1               | B      |
| Chlordane                                         | ND     |           | ug/kg | 16.3  | 6.48  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-03

Date Collected: 01/19/21 08:00

Client ID: SB-12 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68         |           | 30-150              | A      |
| Decachlorobiphenyl           | 49         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 71         |           | 30-150              | B      |
| Decachlorobiphenyl           | 63         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-03  
**Client ID:** SB-12 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 08:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/22/21 12:39  
**Analyst:** AR  
**Percent Solids:** 80%  
**Methylation Date:** 01/21/21 20:45

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/21/21 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 205 | 12.9 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 205 | 6.35 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 205 | 5.45 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 96         |           | 30-150              | A      |
| DCAA      | 82         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-04  
**Client ID:** SB-12 (6.5-8.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 08:40  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 01/25/21 23:29  
**Analyst:** SDC  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:41  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.82  | 0.356 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.756 | 0.338 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.756 | 0.215 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.82  | 0.688 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.908 | 0.407 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.82  | 0.639 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.40  | 1.02  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.756 | 0.310 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.27  | 0.794 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.82  | 0.468 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.13  | 0.567 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.82  | 0.420 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.82  | 0.648 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.40  | 1.46  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.82  | 0.429 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.82  | 0.607 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.756 | 0.360 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.40  | 1.06  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 34.0  | 9.53  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.27  | 0.632 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.27  | 0.599 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.1  | 6.01  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-04

Date Collected: 01/19/21 08:40

Client ID: SB-12 (6.5-8.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 67         |           | 30-150              | A      |
| Decachlorobiphenyl           | 56         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 71         |           | 30-150              | B      |
| Decachlorobiphenyl           | 57         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102822-04  
 Client ID: SB-12 (6.5-8.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 08:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/22/21 12:57  
 Analyst: AR  
 Percent Solids: 83%  
 Methylation Date: 01/21/21 20:45

Extraction Method: EPA 8151A  
 Extraction Date: 01/21/21 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 198 | 12.5 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 198 | 6.14 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 198 | 5.26 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 86         |           | 30-150              | A      |
| DCAA      | 77         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05  
 Client ID: SB-15 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 23:41  
 Analyst: SDC  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.84  | 0.361 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.768 | 0.343 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.768 | 0.218 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.84  | 0.699 | 1               | A      |
| Heptachlor                                        | 5.37   |           | ug/kg | 0.921 | 0.413 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.84  | 0.649 | 1               | A      |
| Heptachlor epoxide                                | 3.88   | IP        | ug/kg | 3.45  | 1.04  | 1               | B      |
| Endrin                                            | ND     |           | ug/kg | 0.768 | 0.315 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.30  | 0.806 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.84  | 0.474 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.15  | 0.576 | 1               | A      |
| 4,4'-DDE                                          | 1.93   | IP        | ug/kg | 1.84  | 0.426 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.84  | 0.657 | 1               | A      |
| 4,4'-DDT                                          | 3.79   | P         | ug/kg | 3.45  | 1.48  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.84  | 0.435 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.84  | 0.616 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.768 | 0.365 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.45  | 1.07  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 34.5  | 9.67  | 1               | A      |
| cis-Chlordane                                     | 46.4   | IP        | ug/kg | 2.30  | 0.642 | 1               | B      |
| trans-Chlordane                                   | 67.3   |           | ug/kg | 2.30  | 0.608 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.4  | 6.10  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05

Date Collected: 01/19/21 09:00

Client ID: SB-15 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68         |           | 30-150              | A      |
| Decachlorobiphenyl           | 63         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 72         |           | 30-150              | B      |
| Decachlorobiphenyl           | 64         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-05  
**Client ID:** SB-15 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 19:38  
**Analyst:** AR  
**Percent Solids:** 85%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 195 | 12.3 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 195 | 6.04 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 195 | 5.19 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 101        |           | 30-150              | A      |
| DCAA      | 87         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-06  
**Client ID:** SB-15 (14.5-16.5)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 01/25/21 23:54  
**Analyst:** SDC  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:41  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.82  | 0.357 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.759 | 0.339 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.759 | 0.216 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.82  | 0.691 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.911 | 0.408 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.82  | 0.641 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.42  | 1.02  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.759 | 0.311 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.28  | 0.797 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.82  | 0.469 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.14  | 0.569 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.82  | 0.421 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.82  | 0.650 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.42  | 1.46  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.82  | 0.430 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.82  | 0.609 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.759 | 0.361 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.42  | 1.06  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 34.2  | 9.56  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.28  | 0.635 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.28  | 0.601 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.2  | 6.04  | 1               | A      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-06

Date Collected: 01/19/21 09:30

Client ID: SB-15 (14.5-16.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70         |           | 30-150              | A      |
| Decachlorobiphenyl           | 66         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 74         |           | 30-150              | B      |
| Decachlorobiphenyl           | 67         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102822-06  
 Client ID: SB-15 (14.5-16.5)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/25/21 19:20  
 Analyst: AR  
 Percent Solids: 84%  
 Methylation Date: 01/23/21 07:30

Extraction Method: EPA 8151A  
 Extraction Date: 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 196 | 12.3 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 196 | 6.07 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 196 | 5.21 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 100        |           | 30-150              | A      |
| DCAA      | 80         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-07  
 Client ID: SB-11 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:40  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 00:06  
 Analyst: SDC  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.92  | 0.376 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.800 | 0.358 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.800 | 0.227 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.92  | 0.728 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.960 | 0.430 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.92  | 0.676 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.60  | 1.08  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.800 | 0.328 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.40  | 0.840 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.92  | 0.494 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.20  | 0.600 | 1               | A      |
| 4,4'-DDE                                          | 0.996  | JP        | ug/kg | 1.92  | 0.444 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.92  | 0.685 | 1               | A      |
| 4,4'-DDT                                          | 2.26   | JP        | ug/kg | 3.60  | 1.54  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.92  | 0.454 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.92  | 0.641 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.800 | 0.381 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.60  | 1.12  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 36.0  | 10.1  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.40  | 0.669 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.40  | 0.633 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 16.0  | 6.36  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61         |           | 30-150              | A      |
| Decachlorobiphenyl           | 67         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 64         |           | 30-150              | B      |
| Decachlorobiphenyl           | 64         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-07  
**Client ID:** SB-11 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 09:40  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 19:02  
**Analyst:** AR  
**Percent Solids:** 82%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 196 | 12.4 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 196 | 6.09 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 196 | 5.23 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 98         |           | 30-150              | A      |
| DCAA      | 86         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-08  
 Client ID: SB-11 (5-7)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 00:19  
 Analyst: SDC  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.90  | 0.372 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.792 | 0.354 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.792 | 0.225 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.90  | 0.721 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.950 | 0.426 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.90  | 0.669 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.56  | 1.07  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.792 | 0.325 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.38  | 0.832 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.90  | 0.489 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.19  | 0.594 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/kg | 1.90  | 0.440 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.90  | 0.678 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.56  | 1.53  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.90  | 0.449 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.90  | 0.635 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.792 | 0.377 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.56  | 1.11  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.6  | 9.98  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.38  | 0.662 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/kg | 2.38  | 0.627 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.8  | 6.30  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | A      |
| Decachlorobiphenyl           | 66         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 72         |           | 30-150              | B      |
| Decachlorobiphenyl           | 65         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

Lab ID: L2102822-08  
 Client ID: SB-11 (5-7)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 01/25/21 18:44  
 Analyst: AR  
 Percent Solids: 82%  
 Methylation Date: 01/23/21 07:30

Extraction Method: EPA 8151A  
 Extraction Date: 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 197 | 12.4 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 197 | 6.12 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 197 | 5.25 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 102        |           | 30-150              | A      |
| DCAA      | 85         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-09  
 Client ID: SB-16 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:20  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 16:09  
 Analyst: SDC  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.80  | 0.354 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.752 | 0.336 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.752 | 0.214 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.80  | 0.684 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.903 | 0.405 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.80  | 0.636 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.38  | 1.02  | 1               | B      |
| Endrin                                            | ND     |           | ug/kg | 0.752 | 0.308 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.26  | 0.790 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.80  | 0.465 | 1               | A      |
| Dieldrin                                          | 2.32   |           | ug/kg | 1.13  | 0.564 | 1               | B      |
| 4,4'-DDE                                          | 2.79   |           | ug/kg | 1.80  | 0.417 | 1               | B      |
| 4,4'-DDD                                          | 2.26   | P         | ug/kg | 1.80  | 0.644 | 1               | A      |
| 4,4'-DDT                                          | 3.77   |           | ug/kg | 3.38  | 1.45  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.80  | 0.426 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.80  | 0.603 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.752 | 0.358 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.38  | 1.05  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 33.8  | 9.48  | 1               | A      |
| cis-Chlordane                                     | 2.80   | P         | ug/kg | 2.26  | 0.629 | 1               | A      |
| trans-Chlordane                                   | 2.04   | J         | ug/kg | 2.26  | 0.596 | 1               | A      |
| Chlordane                                         | 23.5   |           | ug/kg | 15.0  | 5.98  | 1               | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-09

Date Collected: 01/19/21 10:20

Client ID: SB-16 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 77         |           | 30-150              | A      |
| Decachlorobiphenyl           | 109        |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 68         |           | 30-150              | B      |
| Decachlorobiphenyl           | 83         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-09  
**Client ID:** SB-16 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:20  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 18:25  
**Analyst:** AR  
**Percent Solids:** 87%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 188 | 11.8 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 188 | 5.82 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 188 | 5.00 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 100        |           | 30-150              | A      |
| DCAA      | 85         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10  
 Client ID: SB-16 (7-9)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:30  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 00:44  
 Analyst: SDC  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.78  | 0.349 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.742 | 0.332 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.742 | 0.211 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.78  | 0.675 | 1               | A      |
| Heptachlor                                        | 2.18   | P         | ug/kg | 0.890 | 0.399 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.78  | 0.627 | 1               | A      |
| Heptachlor epoxide                                | 3.00   | J         | ug/kg | 3.34  | 1.00  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.742 | 0.304 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.23  | 0.779 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.78  | 0.458 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.11  | 0.556 | 1               | A      |
| 4,4'-DDE                                          | 3.08   |           | ug/kg | 1.78  | 0.412 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.78  | 0.635 | 1               | B      |
| 4,4'-DDT                                          | 6.16   |           | ug/kg | 3.34  | 1.43  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.78  | 0.421 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.78  | 0.595 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.742 | 0.353 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.34  | 1.04  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 33.4  | 9.35  | 1               | A      |
| cis-Chlordane                                     | 12.9   | IP        | ug/kg | 2.23  | 0.620 | 1               | B      |
| trans-Chlordane                                   | 21.0   |           | ug/kg | 2.23  | 0.588 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.8  | 5.90  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | A      |
| Decachlorobiphenyl           | 65         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 69         |           | 30-150              | B      |
| Decachlorobiphenyl           | 63         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-10  
**Client ID:** SB-16 (7-9)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:30  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 17:12  
**Analyst:** AR  
**Percent Solids:** 85%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter                                      | Result | Qualifier | Units | RL  | MDL  | Dilution Factor | Column |
|------------------------------------------------|--------|-----------|-------|-----|------|-----------------|--------|
| Chlorinated Herbicides by GC - Westborough Lab |        |           |       |     |      |                 |        |
| 2,4-D                                          | ND     |           | ug/kg | 192 | 12.1 | 1               | A      |
| 2,4,5-T                                        | ND     |           | ug/kg | 192 | 5.94 | 1               | A      |
| 2,4,5-TP (Silvex)                              | ND     |           | ug/kg | 192 | 5.09 | 1               | A      |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 96         |           | 30-150              | A      |
| DCAA      | 87         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-11  
 Client ID: SB-17 (0-2)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 10:50  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 16:20  
 Analyst: SDC  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.75  | 0.343 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.729 | 0.326 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.729 | 0.207 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.75  | 0.663 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.875 | 0.392 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.75  | 0.616 | 1               | A      |
| Heptachlor epoxide                                | 2.89   | JP        | ug/kg | 3.28  | 0.984 | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.729 | 0.299 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.19  | 0.765 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.75  | 0.450 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.09  | 0.547 | 1               | A      |
| 4,4'-DDE                                          | 6.12   |           | ug/kg | 1.75  | 0.404 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.75  | 0.624 | 1               | A      |
| 4,4'-DDT                                          | 6.85   |           | ug/kg | 3.28  | 1.41  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.75  | 0.413 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.75  | 0.585 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.729 | 0.347 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.28  | 1.02  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 32.8  | 9.18  | 1               | A      |
| cis-Chlordane                                     | 10.2   | IP        | ug/kg | 2.19  | 0.609 | 1               | B      |
| trans-Chlordane                                   | 10.8   |           | ug/kg | 2.19  | 0.577 | 1               | A      |
| Chlordane                                         | 96.0   |           | ug/kg | 14.6  | 5.80  | 1               | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70         |           | 30-150              | A      |
| Decachlorobiphenyl           | 78         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 63         |           | 30-150              | B      |
| Decachlorobiphenyl           | 88         |           | 30-150              | B      |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-11  
**Client ID:** SB-17 (0-2)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 10:50  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 17:31  
**Analyst:** AR  
**Percent Solids:** 89%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 183 | 11.5 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 183 | 5.67 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 183 | 4.86 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 93         |           | 30-150              | A      |
| DCAA      | 82         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12  
 Client ID: SB-17 (9-11)  
 Sample Location: STATEN ISLAND

Date Collected: 01/19/21 11:00  
 Date Received: 01/19/21  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 01/26/21 01:09  
 Analyst: SDC  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.79  | 0.351 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.747 | 0.334 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.747 | 0.212 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.79  | 0.680 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.896 | 0.402 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.79  | 0.631 | 1               | A      |
| Heptachlor epoxide                                | 1.07   | JP        | ug/kg | 3.36  | 1.01  | 1               | B      |
| Endrin                                            | ND     |           | ug/kg | 0.747 | 0.306 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.24  | 0.784 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.79  | 0.462 | 1               | A      |
| Dieldrin                                          | 1.00   | J         | ug/kg | 1.12  | 0.560 | 1               | A      |
| 4,4'-DDE                                          | 3.34   |           | ug/kg | 1.79  | 0.415 | 1               | A      |
| 4,4'-DDD                                          | 1.11   | J         | ug/kg | 1.79  | 0.640 | 1               | A      |
| 4,4'-DDT                                          | 3.45   |           | ug/kg | 3.36  | 1.44  | 1               | B      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.79  | 0.424 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.79  | 0.599 | 1               | A      |
| Endosulfan sulfate                                | ND     | IP        | ug/kg | 0.747 | 0.356 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.36  | 1.04  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 33.6  | 9.41  | 1               | A      |
| cis-Chlordane                                     | 8.03   | IP        | ug/kg | 2.24  | 0.624 | 1               | B      |
| trans-Chlordane                                   | 9.73   | P         | ug/kg | 2.24  | 0.592 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 14.9  | 5.94  | 1               | A      |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12

Date Collected: 01/19/21 11:00

Client ID: SB-17 (9-11)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 78         |           | 30-150              | A      |
| Decachlorobiphenyl           | 86         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 78         |           | 30-150              | B      |
| Decachlorobiphenyl           | 69         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**SAMPLE RESULTS**

**Lab ID:** L2102822-12  
**Client ID:** SB-17 (9-11)  
**Sample Location:** STATEN ISLAND

**Date Collected:** 01/19/21 11:00  
**Date Received:** 01/19/21  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8151A  
**Analytical Date:** 01/25/21 17:49  
**Analyst:** AR  
**Percent Solids:** 87%  
**Methylation Date:** 01/23/21 07:30

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/22/21 00:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Chlorinated Herbicides by GC - Westborough Lab

|                   |    |  |       |     |      |   |   |
|-------------------|----|--|-------|-----|------|---|---|
| 2,4-D             | ND |  | ug/kg | 188 | 11.8 | 1 | A |
| 2,4,5-T           | ND |  | ug/kg | 188 | 5.84 | 1 | A |
| 2,4,5-TP (Silvex) | ND |  | ug/kg | 188 | 5.01 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA      | 97         |           | 30-150              | A      |
| DCAA      | 86         |           | 30-150              | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

**Analytical Method:** 1,8151A  
**Analytical Date:** 01/21/21 11:02  
**Analyst:** AR

**Extraction Method:** EPA 8151A  
**Extraction Date:** 01/20/21 03:48

**Methylation Date:** 01/20/21 20:02

| Parameter                                                                              | Result | Qualifier | Units | RL  | MDL  | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|--------|
| Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1456660-1 |        |           |       |     |      |        |
| 2,4-D                                                                                  | ND     |           | ug/kg | 163 | 10.3 | A      |
| 2,4,5-T                                                                                | ND     |           | ug/kg | 163 | 5.06 | A      |
| 2,4,5-TP (Silvex)                                                                      | ND     |           | ug/kg | 163 | 4.35 | A      |

| Surrogate | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|-----------|-----------|------------------------|--------|
| DCAA      | 87        |           | 30-150                 | A      |
| DCAA      | 82        |           | 30-150                 | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

### Method Blank Analysis Batch Quality Control

**Analytical Method:** 1,8081B  
**Analytical Date:** 01/25/21 15:25  
**Analyst:** SDC

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/20/21 09:41  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 01/21/21

| Parameter                                                                                 | Result | Qualifier | Units | RL    | MDL   | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1456813-1 |        |           |       |       |       |        |
| Delta-BHC                                                                                 | ND     |           | ug/kg | 1.55  | 0.303 | A      |
| Lindane                                                                                   | ND     |           | ug/kg | 0.644 | 0.288 | A      |
| Alpha-BHC                                                                                 | ND     |           | ug/kg | 0.644 | 0.183 | A      |
| Beta-BHC                                                                                  | ND     |           | ug/kg | 1.55  | 0.586 | A      |
| Heptachlor                                                                                | ND     |           | ug/kg | 0.773 | 0.347 | A      |
| Aldrin                                                                                    | ND     |           | ug/kg | 1.55  | 0.544 | A      |
| Heptachlor epoxide                                                                        | ND     |           | ug/kg | 2.90  | 0.870 | A      |
| Endrin                                                                                    | ND     |           | ug/kg | 0.644 | 0.264 | A      |
| Endrin aldehyde                                                                           | ND     |           | ug/kg | 1.93  | 0.676 | A      |
| Endrin ketone                                                                             | ND     |           | ug/kg | 1.55  | 0.398 | A      |
| Dieldrin                                                                                  | ND     |           | ug/kg | 0.966 | 0.483 | A      |
| 4,4'-DDE                                                                                  | ND     |           | ug/kg | 1.55  | 0.358 | A      |
| 4,4'-DDD                                                                                  | ND     |           | ug/kg | 1.55  | 0.552 | A      |
| 4,4'-DDT                                                                                  | ND     |           | ug/kg | 2.90  | 1.24  | A      |
| Endosulfan I                                                                              | ND     |           | ug/kg | 1.55  | 0.365 | A      |
| Endosulfan II                                                                             | ND     |           | ug/kg | 1.55  | 0.517 | A      |
| Endosulfan sulfate                                                                        | ND     |           | ug/kg | 0.644 | 0.307 | A      |
| Methoxychlor                                                                              | ND     |           | ug/kg | 2.90  | 0.902 | A      |
| Toxaphene                                                                                 | ND     |           | ug/kg | 29.0  | 8.12  | A      |
| cis-Chlordane                                                                             | ND     |           | ug/kg | 1.93  | 0.539 | A      |
| trans-Chlordane                                                                           | ND     |           | ug/kg | 1.93  | 0.510 | A      |
| Chlordane                                                                                 | ND     |           | ug/kg | 12.9  | 5.12  | A      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8081B  
 Analytical Date: 01/25/21 15:25  
 Analyst: SDC

Extraction Method: EPA 3546  
 Extraction Date: 01/20/21 09:41  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 01/21/21

| Parameter                                                                                 | Result | Qualifier | Units | RL | MDL | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1456813-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 91        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 73        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 80        |           | 30-150                 | B      |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

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

Analytical Method: 1,8151A  
 Analytical Date: 01/22/21 10:49  
 Analyst: AR

Extraction Method: EPA 8151A  
 Extraction Date: 01/21/21 18:55

Methylation Date: 01/22/21 06:14

| Parameter                                                                              | Result | Qualifier | Units | RL  | MDL  | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|--------|
| Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05-12 Batch: WG1457515-1 |        |           |       |     |      |        |
| 2,4-D                                                                                  | ND     |           | ug/kg | 162 | 10.2 | A      |
| 2,4,5-T                                                                                | ND     |           | ug/kg | 162 | 5.03 | A      |
| 2,4,5-TP (Silvex)                                                                      | ND     |           | ug/kg | 162 | 4.32 | A      |

| Surrogate | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|-----------|-----------|-----------|------------------------|--------|
| DCAA      | 89        |           | 30-150                 | A      |
| DCAA      | 76        |           | 30-150                 | B      |



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1456660-2 WG1456660-3 |                  |      |                   |      |                     |     |      |               |        |
| 2,4-D                                                                                                     | 86               |      | 86                |      | 30-150              | 0   |      | 30            | A      |
| 2,4,5-T                                                                                                   | 82               |      | 81                |      | 30-150              | 1   |      | 30            | A      |
| 2,4,5-TP (Silvex)                                                                                         | 81               |      | 80                |      | 30-150              | 1   |      | 30            | A      |

| Surrogate | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|-----------|------------------|------|-------------------|------|------------------------|--------|
| DCAA      | 85               |      | 85                |      | 30-150                 | A      |
| DCAA      | 81               |      | 81                |      | 30-150                 | B      |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1456813-2 WG1456813-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                    | 74               |      | 80                |      | 30-150              | 8   |      | 30            | A      |
| Lindane                                                                                                      | 74               |      | 80                |      | 30-150              | 8   |      | 30            | A      |
| Alpha-BHC                                                                                                    | 77               |      | 82                |      | 30-150              | 6   |      | 30            | A      |
| Beta-BHC                                                                                                     | 71               |      | 77                |      | 30-150              | 8   |      | 30            | A      |
| Heptachlor                                                                                                   | 71               |      | 78                |      | 30-150              | 9   |      | 30            | A      |
| Aldrin                                                                                                       | 71               |      | 76                |      | 30-150              | 7   |      | 30            | A      |
| Heptachlor epoxide                                                                                           | 67               |      | 73                |      | 30-150              | 9   |      | 30            | A      |
| Endrin                                                                                                       | 73               |      | 83                |      | 30-150              | 13  |      | 30            | A      |
| Endrin aldehyde                                                                                              | 56               |      | 59                |      | 30-150              | 5   |      | 30            | A      |
| Endrin ketone                                                                                                | 71               |      | 78                |      | 30-150              | 9   |      | 30            | A      |
| Dieldrin                                                                                                     | 74               |      | 85                |      | 30-150              | 14  |      | 30            | A      |
| 4,4'-DDE                                                                                                     | 69               |      | 78                |      | 30-150              | 12  |      | 30            | A      |
| 4,4'-DDD                                                                                                     | 74               |      | 85                |      | 30-150              | 14  |      | 30            | A      |
| 4,4'-DDT                                                                                                     | 74               |      | 82                |      | 30-150              | 10  |      | 30            | A      |
| Endosulfan I                                                                                                 | 68               |      | 78                |      | 30-150              | 14  |      | 30            | A      |
| Endosulfan II                                                                                                | 75               |      | 78                |      | 30-150              | 4   |      | 30            | A      |
| Endosulfan sulfate                                                                                           | 57               |      | 59                |      | 30-150              | 3   |      | 30            | A      |
| Methoxychlor                                                                                                 | 80               |      | 87                |      | 30-150              | 8   |      | 30            | A      |
| cis-Chlordane                                                                                                | 63               |      | 72                |      | 30-150              | 13  |      | 30            | A      |
| trans-Chlordane                                                                                              | 68               |      | 78                |      | 30-150              | 14  |      | 30            | A      |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1456813-2 WG1456813-3

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65               |      | 66                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 87               |      | 90                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 68               |      | 70                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 77               |      | 81                |      | 30-150                 | B      |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05-12 Batch: WG1457515-2 WG1457515-3 |                  |      |                   |      |                     |     |      |               |        |
| 2,4-D                                                                                                     | 74               |      | 93                |      | 30-150              | 23  |      | 30            | A      |
| 2,4,5-T                                                                                                   | 74               |      | 93                |      | 30-150              | 23  |      | 30            | A      |
| 2,4,5-TP (Silvex)                                                                                         | 72               |      | 89                |      | 30-150              | 21  |      | 30            | A      |

| Surrogate | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|-----------|------------------|------|-------------------|------|------------------------|--------|
| DCAA      | 77               |      | 97                |      | 30-150                 | A      |
| DCAA      | 73               |      | 92                |      | 30-150                 | B      |

## METALS

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-01

Date Collected: 01/19/21 07:30

Client ID: SB-14 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 7760   |           | mg/kg | 9.49  | 2.56  | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | 1.14   | J         | mg/kg | 4.74  | 0.360 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 11.2   |           | mg/kg | 0.949 | 0.197 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 81.6   |           | mg/kg | 0.949 | 0.165 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.342  | J         | mg/kg | 0.474 | 0.031 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.844  | J         | mg/kg | 0.949 | 0.093 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 1580   |           | mg/kg | 9.49  | 3.32  | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 39.5   |           | mg/kg | 0.949 | 0.091 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 30.4   |           | mg/kg | 1.90  | 0.158 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 168    |           | mg/kg | 0.949 | 0.245 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 22300  |           | mg/kg | 4.74  | 0.857 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 156    |           | mg/kg | 4.74  | 0.254 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 16100  |           | mg/kg | 9.49  | 1.46  | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 624    |           | mg/kg | 0.949 | 0.151 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.232  |           | mg/kg | 0.078 | 0.051 | 1               | 01/21/21 00:38 | 01/26/21 15:14 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 334    |           | mg/kg | 2.37  | 0.230 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 399    |           | mg/kg | 237   | 13.7  | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | 0.626  | J         | mg/kg | 1.90  | 0.245 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.949 | 0.268 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 57.1   | J         | mg/kg | 190   | 2.99  | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.90  | 0.299 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 26.6   |           | mg/kg | 0.949 | 0.193 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 129    |           | mg/kg | 4.74  | 0.278 | 2               | 01/21/21 00:29 | 01/25/21 19:26 | EPA 3050B   | 1,6010D           | BV      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-02

Date Collected: 01/19/21 07:50

Client ID: SB-14 (17.5-19.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 8790   |           | mg/kg | 9.18  | 2.48  | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.59  | 0.349 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 3.30   |           | mg/kg | 0.918 | 0.191 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 77.6   |           | mg/kg | 0.918 | 0.160 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.284  | J         | mg/kg | 0.459 | 0.030 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.542  | J         | mg/kg | 0.918 | 0.090 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 1320   |           | mg/kg | 9.18  | 3.21  | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 16.9   |           | mg/kg | 0.918 | 0.088 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 9.41   |           | mg/kg | 1.84  | 0.152 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 17.5   |           | mg/kg | 0.918 | 0.237 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 20900  |           | mg/kg | 4.59  | 0.829 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 11.0   |           | mg/kg | 4.59  | 0.246 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 4710   |           | mg/kg | 9.18  | 1.41  | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 521    |           | mg/kg | 0.918 | 0.146 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.079 | 0.052 | 1               | 01/21/21 00:38 | 01/26/21 15:18 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 32.4   |           | mg/kg | 2.29  | 0.222 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 1400   |           | mg/kg | 229   | 13.2  | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.84  | 0.237 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.918 | 0.260 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 98.5   | J         | mg/kg | 184   | 2.89  | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.84  | 0.289 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 24.3   |           | mg/kg | 0.918 | 0.186 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 48.3   |           | mg/kg | 4.59  | 0.269 | 2               | 01/21/21 00:29 | 01/25/21 19:31 | EPA 3050B   | 1,6010D           | BV      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-03

Date Collected: 01/19/21 08:00

Client ID: SB-12 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 5010   |           | mg/kg | 9.64  | 2.60  | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | 0.405  | J         | mg/kg | 4.82  | 0.366 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 6.24   |           | mg/kg | 0.964 | 0.200 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 83.8   |           | mg/kg | 0.964 | 0.168 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.164  | J         | mg/kg | 0.482 | 0.032 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.829  | J         | mg/kg | 0.964 | 0.094 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 3420   |           | mg/kg | 9.64  | 3.37  | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 33.9   |           | mg/kg | 0.964 | 0.093 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 21.0   |           | mg/kg | 1.93  | 0.160 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 44.6   |           | mg/kg | 0.964 | 0.249 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 19200  |           | mg/kg | 4.82  | 0.870 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 189    |           | mg/kg | 4.82  | 0.258 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 22600  |           | mg/kg | 9.64  | 1.48  | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 402    |           | mg/kg | 0.964 | 0.153 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.204  |           | mg/kg | 0.081 | 0.053 | 1               | 01/21/21 00:38 | 01/26/21 15:21 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 375    |           | mg/kg | 2.41  | 0.233 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 641    |           | mg/kg | 241   | 13.9  | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | 0.501  | J         | mg/kg | 1.93  | 0.249 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.964 | 0.273 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 69.1   | J         | mg/kg | 193   | 3.04  | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.93  | 0.304 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 20.8   |           | mg/kg | 0.964 | 0.196 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 151    |           | mg/kg | 4.82  | 0.282 | 2               | 01/21/21 00:29 | 01/25/21 19:35 | EPA 3050B   | 1,6010D           | BV      |





Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-04

Date Collected: 01/19/21 08:40

Client ID: SB-12 (6.5-8.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 6520   |           | mg/kg | 9.52  | 2.57  | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.76  | 0.362 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 4.59   |           | mg/kg | 0.952 | 0.198 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 21.7   |           | mg/kg | 0.952 | 0.166 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.219  | J         | mg/kg | 0.476 | 0.031 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.362  | J         | mg/kg | 0.952 | 0.093 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 648    |           | mg/kg | 9.52  | 3.33  | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 16.0   |           | mg/kg | 0.952 | 0.091 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 9.94   |           | mg/kg | 1.90  | 0.158 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 6.58   |           | mg/kg | 0.952 | 0.246 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 17900  |           | mg/kg | 4.76  | 0.859 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 7.47   |           | mg/kg | 4.76  | 0.255 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 1990   |           | mg/kg | 9.52  | 1.46  | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 368    |           | mg/kg | 0.952 | 0.151 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.091 | 0.060 | 1               | 01/21/21 00:38 | 01/26/21 15:31 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 29.0   |           | mg/kg | 2.38  | 0.230 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 266    |           | mg/kg | 238   | 13.7  | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.90  | 0.246 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.952 | 0.269 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 35.2   | J         | mg/kg | 190   | 3.00  | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.90  | 0.300 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 20.4   |           | mg/kg | 0.952 | 0.193 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 24.8   |           | mg/kg | 4.76  | 0.279 | 2               | 01/21/21 00:29 | 01/25/21 20:22 | EPA 3050B   | 1,6010D           | BV      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-05

Date Collected: 01/19/21 09:00

Client ID: SB-15 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 3370   |           | mg/kg | 9.21  | 2.49  | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.61  | 0.350 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 3.34   |           | mg/kg | 0.921 | 0.192 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 47.7   |           | mg/kg | 0.921 | 0.160 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.101  | J         | mg/kg | 0.461 | 0.030 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.709  | J         | mg/kg | 0.921 | 0.090 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 12800  |           | mg/kg | 9.21  | 3.22  | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 136    |           | mg/kg | 0.921 | 0.088 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 48.0   |           | mg/kg | 1.84  | 0.153 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 10.8   |           | mg/kg | 0.921 | 0.238 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 27500  |           | mg/kg | 4.61  | 0.832 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 31.8   |           | mg/kg | 4.61  | 0.247 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 114000 |           | mg/kg | 92.1  | 14.2  | 20              | 01/21/21 00:29 | 01/26/21 14:36 | EPA 3050B   | 1,6010D           | GD      |
| Manganese, Total             | 1540   |           | mg/kg | 0.921 | 0.146 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.064  | J         | mg/kg | 0.075 | 0.049 | 1               | 01/21/21 00:38 | 01/26/21 15:34 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 937    |           | mg/kg | 2.30  | 0.223 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 518    |           | mg/kg | 230   | 13.3  | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | 0.580  | J         | mg/kg | 1.84  | 0.238 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.921 | 0.261 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 62.5   | J         | mg/kg | 184   | 2.90  | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.84  | 0.290 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 12.2   |           | mg/kg | 0.921 | 0.187 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 40.0   |           | mg/kg | 4.61  | 0.270 | 2               | 01/21/21 00:29 | 01/25/21 20:26 | EPA 3050B   | 1,6010D           | BV      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-06

Date Collected: 01/19/21 09:30

Client ID: SB-15 (14.5-16.5)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 8310   |           | mg/kg | 9.47  | 2.56  | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.73  | 0.360 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 3.50   |           | mg/kg | 0.947 | 0.197 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 62.5   |           | mg/kg | 0.947 | 0.165 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.199  | J         | mg/kg | 0.473 | 0.031 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.511  | J         | mg/kg | 0.947 | 0.093 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 2190   |           | mg/kg | 9.47  | 3.31  | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 20.4   |           | mg/kg | 0.947 | 0.091 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 9.68   |           | mg/kg | 1.89  | 0.157 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 18.6   |           | mg/kg | 0.947 | 0.244 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 20800  |           | mg/kg | 4.73  | 0.855 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 12.2   |           | mg/kg | 4.73  | 0.254 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 4980   |           | mg/kg | 9.47  | 1.46  | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 548    |           | mg/kg | 0.947 | 0.150 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.087 | 0.057 | 1               | 01/21/21 00:38 | 01/26/21 15:37 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 86.6   |           | mg/kg | 2.37  | 0.229 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 1690   |           | mg/kg | 237   | 13.6  | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.89  | 0.244 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.947 | 0.268 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 128    | J         | mg/kg | 189   | 2.98  | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.89  | 0.298 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 24.9   |           | mg/kg | 0.947 | 0.192 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 51.8   |           | mg/kg | 4.73  | 0.277 | 2               | 01/21/21 00:29 | 01/25/21 20:45 | EPA 3050B   | 1,6010D           | BV      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-07

Date Collected: 01/19/21 09:40

Client ID: SB-11 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 10200  |           | mg/kg | 9.41  | 2.54  | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.70  | 0.358 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 6.55   |           | mg/kg | 0.941 | 0.196 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 51.3   |           | mg/kg | 0.941 | 0.164 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.216  | J         | mg/kg | 0.470 | 0.031 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.621  | J         | mg/kg | 0.941 | 0.092 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 1470   |           | mg/kg | 9.41  | 3.29  | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 37.4   |           | mg/kg | 0.941 | 0.090 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 19.9   |           | mg/kg | 1.88  | 0.156 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 26.4   |           | mg/kg | 0.941 | 0.243 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 22500  |           | mg/kg | 4.70  | 0.850 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 60.8   |           | mg/kg | 4.70  | 0.252 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 7280   |           | mg/kg | 9.41  | 1.45  | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 487    |           | mg/kg | 0.941 | 0.150 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.080 | 0.052 | 1               | 01/21/21 00:38 | 01/26/21 15:41 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 213    |           | mg/kg | 2.35  | 0.228 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 958    |           | mg/kg | 235   | 13.5  | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | 0.348  | J         | mg/kg | 1.88  | 0.243 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.941 | 0.266 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 59.3   | J         | mg/kg | 188   | 2.96  | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.88  | 0.296 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 30.2   |           | mg/kg | 0.941 | 0.191 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 79.0   |           | mg/kg | 4.70  | 0.276 | 2               | 01/21/21 00:29 | 01/25/21 20:50 | EPA 3050B   | 1,6010D           | BV      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-08

Date Collected: 01/19/21 10:00

Client ID: SB-11 (5-7)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 7670   |           | mg/kg | 9.36  | 2.53  | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.68  | 0.356 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 8.93   |           | mg/kg | 0.936 | 0.195 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 52.4   |           | mg/kg | 0.936 | 0.163 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.187  | J         | mg/kg | 0.468 | 0.031 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.955  |           | mg/kg | 0.936 | 0.092 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 2130   |           | mg/kg | 9.36  | 3.28  | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 82.0   |           | mg/kg | 0.936 | 0.090 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 48.4   |           | mg/kg | 1.87  | 0.155 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 43.0   |           | mg/kg | 0.936 | 0.242 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 31500  |           | mg/kg | 4.68  | 0.845 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 31.8   |           | mg/kg | 4.68  | 0.251 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 21200  |           | mg/kg | 9.36  | 1.44  | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 869    |           | mg/kg | 0.936 | 0.149 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.086 | 0.056 | 1               | 01/21/21 00:38 | 01/26/21 15:44 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 751    |           | mg/kg | 2.34  | 0.226 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 1780   |           | mg/kg | 234   | 13.5  | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.87  | 0.242 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.936 | 0.265 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 116    | J         | mg/kg | 187   | 2.95  | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.87  | 0.295 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 32.7   |           | mg/kg | 0.936 | 0.190 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 88.9   |           | mg/kg | 4.68  | 0.274 | 2               | 01/21/21 00:29 | 01/25/21 20:54 | EPA 3050B   | 1,6010D           | BV      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-09

Date Collected: 01/19/21 10:20

Client ID: SB-16 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 7040   |           | mg/kg | 8.97  | 2.42  | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.48  | 0.341 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 4.64   |           | mg/kg | 0.897 | 0.186 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 69.0   |           | mg/kg | 0.897 | 0.156 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.260  | J         | mg/kg | 0.448 | 0.030 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.654  | J         | mg/kg | 0.897 | 0.088 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 2520   |           | mg/kg | 8.97  | 3.14  | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 52.0   |           | mg/kg | 0.897 | 0.086 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 16.1   |           | mg/kg | 1.79  | 0.149 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 39.4   |           | mg/kg | 0.897 | 0.231 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 19800  |           | mg/kg | 4.48  | 0.810 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 94.3   |           | mg/kg | 4.48  | 0.240 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 7310   |           | mg/kg | 8.97  | 1.38  | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 431    |           | mg/kg | 0.897 | 0.142 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.882  |           | mg/kg | 0.078 | 0.051 | 1               | 01/21/21 00:38 | 01/26/21 15:47 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 187    |           | mg/kg | 2.24  | 0.217 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 765    |           | mg/kg | 224   | 12.9  | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.79  | 0.231 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.897 | 0.254 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 74.7   | J         | mg/kg | 179   | 2.82  | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.79  | 0.282 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 23.2   |           | mg/kg | 0.897 | 0.182 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 84.7   |           | mg/kg | 4.48  | 0.263 | 2               | 01/21/21 00:29 | 01/25/21 20:59 | EPA 3050B   | 1,6010D           | BV      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-10

Date Collected: 01/19/21 10:30

Client ID: SB-16 (7-9)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 6880   |           | mg/kg | 8.98  | 2.42  | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.49  | 0.341 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 4.96   |           | mg/kg | 0.898 | 0.187 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 68.7   |           | mg/kg | 0.898 | 0.156 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.206  | J         | mg/kg | 0.449 | 0.030 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.664  | J         | mg/kg | 0.898 | 0.088 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 4030   |           | mg/kg | 8.98  | 3.14  | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 47.1   |           | mg/kg | 0.898 | 0.086 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 18.2   |           | mg/kg | 1.80  | 0.149 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 26.0   |           | mg/kg | 0.898 | 0.232 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 21000  |           | mg/kg | 4.49  | 0.811 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 84.2   |           | mg/kg | 4.49  | 0.241 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 18400  |           | mg/kg | 8.98  | 1.38  | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 564    |           | mg/kg | 0.898 | 0.143 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.312  |           | mg/kg | 0.091 | 0.059 | 1               | 01/21/21 00:38 | 01/26/21 15:50 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 255    |           | mg/kg | 2.24  | 0.217 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 1000   |           | mg/kg | 224   | 12.9  | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.80  | 0.232 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.898 | 0.254 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 117    | J         | mg/kg | 180   | 2.83  | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.80  | 0.283 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 23.9   |           | mg/kg | 0.898 | 0.182 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 73.9   |           | mg/kg | 4.49  | 0.263 | 2               | 01/21/21 00:29 | 01/25/21 21:04 | EPA 3050B   | 1,6010D           | BV      |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 7100   |           | mg/kg | 8.90  | 2.40  | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | ND     |           | mg/kg | 4.45  | 0.338 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 9.20   |           | mg/kg | 0.890 | 0.185 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 47.0   |           | mg/kg | 0.890 | 0.155 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.214  | J         | mg/kg | 0.445 | 0.029 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.525  | J         | mg/kg | 0.890 | 0.087 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 2570   |           | mg/kg | 8.90  | 3.11  | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 22.9   |           | mg/kg | 0.890 | 0.085 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 9.82   |           | mg/kg | 1.78  | 0.148 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 28.4   |           | mg/kg | 0.890 | 0.230 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 18000  |           | mg/kg | 4.45  | 0.804 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 34.5   |           | mg/kg | 4.45  | 0.238 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 3590   |           | mg/kg | 8.90  | 1.37  | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 315    |           | mg/kg | 0.890 | 0.141 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | 0.056  | J         | mg/kg | 0.080 | 0.052 | 1               | 01/21/21 00:38 | 01/26/21 15:54 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 54.1   |           | mg/kg | 2.22  | 0.215 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 713    |           | mg/kg | 222   | 12.8  | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.78  | 0.230 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.890 | 0.252 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 88.0   | J         | mg/kg | 178   | 2.80  | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.78  | 0.280 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 24.2   |           | mg/kg | 0.890 | 0.181 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 46.2   |           | mg/kg | 4.45  | 0.261 | 2               | 01/21/21 00:29 | 01/25/21 21:08 | EPA 3050B   | 1,6010D           | BV      |





**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**SAMPLE RESULTS**

Lab ID: L2102822-12

Date Collected: 01/19/21 11:00

Client ID: SB-17 (9-11)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 5580   |           | mg/kg | 8.81  | 2.38  | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Antimony, Total              | 0.740  | J         | mg/kg | 4.41  | 0.335 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Arsenic, Total               | 10.3   |           | mg/kg | 0.881 | 0.183 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Barium, Total                | 63.0   |           | mg/kg | 0.881 | 0.153 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Beryllium, Total             | 0.167  | J         | mg/kg | 0.441 | 0.029 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Cadmium, Total               | 0.643  | J         | mg/kg | 0.881 | 0.086 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Calcium, Total               | 7660   |           | mg/kg | 8.81  | 3.08  | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Chromium, Total              | 21.1   |           | mg/kg | 0.881 | 0.085 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Cobalt, Total                | 7.66   |           | mg/kg | 1.76  | 0.146 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Copper, Total                | 57.2   |           | mg/kg | 0.881 | 0.227 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Iron, Total                  | 15600  |           | mg/kg | 4.41  | 0.796 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Lead, Total                  | 81.4   |           | mg/kg | 4.41  | 0.236 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Magnesium, Total             | 5360   |           | mg/kg | 8.81  | 1.36  | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Manganese, Total             | 280    |           | mg/kg | 0.881 | 0.140 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Mercury, Total               | ND     |           | mg/kg | 0.091 | 0.059 | 1               | 01/21/21 00:38 | 01/26/21 15:57 | EPA 7471B   | 1,7471B           | VW      |
| Nickel, Total                | 59.3   |           | mg/kg | 2.20  | 0.213 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Potassium, Total             | 693    |           | mg/kg | 220   | 12.7  | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Selenium, Total              | ND     |           | mg/kg | 1.76  | 0.227 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Silver, Total                | ND     |           | mg/kg | 0.881 | 0.249 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Sodium, Total                | 92.1   | J         | mg/kg | 176   | 2.78  | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Thallium, Total              | ND     |           | mg/kg | 1.76  | 0.278 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Vanadium, Total              | 21.4   |           | mg/kg | 0.881 | 0.179 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |
| Zinc, Total                  | 75.4   |           | mg/kg | 4.41  | 0.258 | 2               | 01/21/21 00:29 | 01/25/21 21:13 | EPA 3050B   | 1,6010D           | BV      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## Method Blank Analysis Batch Quality Control

| Parameter                                                            | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1456957-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Aluminum, Total                                                      | ND     |           | mg/kg | 4.00  | 1.08  | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Antimony, Total                                                      | ND     |           | mg/kg | 2.00  | 0.152 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Arsenic, Total                                                       | 0.092  | J         | mg/kg | 0.400 | 0.083 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Barium, Total                                                        | ND     |           | mg/kg | 0.400 | 0.070 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Beryllium, Total                                                     | ND     |           | mg/kg | 0.200 | 0.013 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Cadmium, Total                                                       | ND     |           | mg/kg | 0.400 | 0.039 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Calcium, Total                                                       | ND     |           | mg/kg | 4.00  | 1.40  | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Chromium, Total                                                      | 0.112  | J         | mg/kg | 0.400 | 0.038 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Cobalt, Total                                                        | ND     |           | mg/kg | 0.800 | 0.066 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Copper, Total                                                        | ND     |           | mg/kg | 0.400 | 0.103 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Iron, Total                                                          | 0.636  | J         | mg/kg | 2.00  | 0.361 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Lead, Total                                                          | ND     |           | mg/kg | 2.00  | 0.107 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Magnesium, Total                                                     | ND     |           | mg/kg | 4.00  | 0.616 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Manganese, Total                                                     | ND     |           | mg/kg | 0.400 | 0.064 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Nickel, Total                                                        | ND     |           | mg/kg | 1.00  | 0.097 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Potassium, Total                                                     | ND     |           | mg/kg | 100   | 5.76  | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Selenium, Total                                                      | ND     |           | mg/kg | 0.800 | 0.103 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Silver, Total                                                        | ND     |           | mg/kg | 0.400 | 0.113 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Sodium, Total                                                        | ND     |           | mg/kg | 80.0  | 1.26  | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Thallium, Total                                                      | ND     |           | mg/kg | 0.800 | 0.126 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Vanadium, Total                                                      | ND     |           | mg/kg | 0.400 | 0.081 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |
| Zinc, Total                                                          | ND     |           | mg/kg | 2.00  | 0.117 | 1                  | 01/21/21 00:29   | 01/25/21 19:49   | 1,6010D              | BV      |

### Prep Information

Digestion Method: EPA 3050B

| Parameter                                                            | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1456958-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Mercury, Total                                                       | ND     |           | mg/kg | 0.083 | 0.054 | 1                  | 01/21/21 00:38   | 01/26/21 14:51   | 1,7471B              | VW      |



**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

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

### **Prep Information**

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Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1456957-2 SRM Lot Number: D109-540 |                  |      |                   |      |                     |     |      |            |
| Aluminum, Total                                                                                      | 75               |      | -                 |      | 50-150              | -   |      |            |
| Antimony, Total                                                                                      | 134              |      | -                 |      | 19-250              | -   |      |            |
| Arsenic, Total                                                                                       | 109              |      | -                 |      | 70-130              | -   |      |            |
| Barium, Total                                                                                        | 102              |      | -                 |      | 75-125              | -   |      |            |
| Beryllium, Total                                                                                     | 104              |      | -                 |      | 75-125              | -   |      |            |
| Cadmium, Total                                                                                       | 104              |      | -                 |      | 75-125              | -   |      |            |
| Calcium, Total                                                                                       | 96               |      | -                 |      | 73-128              | -   |      |            |
| Chromium, Total                                                                                      | 102              |      | -                 |      | 70-130              | -   |      |            |
| Cobalt, Total                                                                                        | 103              |      | -                 |      | 75-125              | -   |      |            |
| Copper, Total                                                                                        | 106              |      | -                 |      | 75-125              | -   |      |            |
| Iron, Total                                                                                          | 104              |      | -                 |      | 35-165              | -   |      |            |
| Lead, Total                                                                                          | 102              |      | -                 |      | 72-128              | -   |      |            |
| Magnesium, Total                                                                                     | 88               |      | -                 |      | 62-138              | -   |      |            |
| Manganese, Total                                                                                     | 104              |      | -                 |      | 74-126              | -   |      |            |
| Nickel, Total                                                                                        | 103              |      | -                 |      | 70-130              | -   |      |            |
| Potassium, Total                                                                                     | 89               |      | -                 |      | 59-141              | -   |      |            |
| Selenium, Total                                                                                      | 106              |      | -                 |      | 68-132              | -   |      |            |
| Silver, Total                                                                                        | 105              |      | -                 |      | 68-131              | -   |      |            |
| Sodium, Total                                                                                        | 101              |      | -                 |      | 35-165              | -   |      |            |
| Thallium, Total                                                                                      | 104              |      | -                 |      | 68-131              | -   |      |            |
| Vanadium, Total                                                                                      | 102              |      | -                 |      | 59-141              | -   |      |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                            | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1456957-2 SRM Lot Number: D109-540 |                  |                   |                     |     |            |
| Zinc, Total                                                                                          | 103              | -                 | 70-130              | -   |            |
| Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1456958-2 SRM Lot Number: D109-540 |                  |                   |                     |     |            |
| Mercury, Total                                                                                       | 106              | -                 | 60-140              | -   |            |

# Matrix Spike Analysis

## Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

| Parameter                                                | Native Sample | MS Added | MS Found                 | MS %Recovery | Qual | MSD Found              | MSD %Recovery | Qual | Recovery Limits      | RPD | Qual | RPD Limits |
|----------------------------------------------------------|---------------|----------|--------------------------|--------------|------|------------------------|---------------|------|----------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 |               |          | QC Batch ID: WG1456957-3 |              |      | QC Sample: L2101804-01 |               |      | Client ID: MS Sample |     |      |            |
| Aluminum, Total                                          | 12600         | 170      | 11700                    | 0            | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Antimony, Total                                          | ND            | 42.5     | 23.3                     | 55           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Arsenic, Total                                           | 2.83          | 10.2     | 10.2                     | 72           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Barium, Total                                            | 73.2          | 170      | 194                      | 71           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Beryllium, Total                                         | 0.273J        | 4.25     | 3.33                     | 78           |      | -                      | -             |      | 75-125               | -   |      | 20         |
| Cadmium, Total                                           | 0.723J        | 4.34     | 3.77                     | 87           |      | -                      | -             |      | 75-125               | -   |      | 20         |
| Calcium, Total                                           | 2530          | 850      | 2630                     | 12           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Chromium, Total                                          | 22.4          | 17       | 32.6                     | 60           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Cobalt, Total                                            | 18.5          | 42.5     | 43.7                     | 59           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Copper, Total                                            | 33.8          | 21.2     | 45.8                     | 56           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Iron, Total                                              | 27000         | 85       | 24400                    | 0            | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Lead, Total                                              | 10.2          | 43.4     | 38.7                     | 66           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Magnesium, Total                                         | 3340          | 850      | 3500                     | 19           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Manganese, Total                                         | 465           | 42.5     | 474                      | 21           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Nickel, Total                                            | 16.7          | 42.5     | 41.8                     | 59           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Potassium, Total                                         | 852           | 850      | 1430                     | 68           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Selenium, Total                                          | ND            | 10.2     | 6.60                     | 65           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Silver, Total                                            | ND            | 25.5     | 18.8                     | 74           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Sodium, Total                                            | 1420          | 850      | 1990                     | 67           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Thallium, Total                                          | ND            | 10.2     | 5.47                     | 54           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |
| Vanadium, Total                                          | 50.7          | 42.5     | 74.4                     | 56           | Q    | -                      | -             |      | 75-125               | -   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Lab Number:** L2102822

**Project Number:** LIBERTY TOWERS

**Report Date:** 02/01/21

| Parameter                                                | Native Sample | MS Added | MS Found                 | MS %Recovery | MSD Found              | MSD %Recovery | Recovery Limits      | RPD | RPD Limits |
|----------------------------------------------------------|---------------|----------|--------------------------|--------------|------------------------|---------------|----------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 |               |          | QC Batch ID: WG1456957-3 |              | QC Sample: L2101804-01 |               | Client ID: MS Sample |     |            |
| Zinc, Total                                              | 49.2          | 42.5     | 84.2                     | 82           | -                      | -             | 75-125               | -   | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 01-12 |               |          | QC Batch ID: WG1456958-3 |              | QC Sample: L2101804-01 |               | Client ID: MS Sample |     |            |
| Mercury, Total                                           | ND            | 0.156    | 0.174                    | 111          | -                      | -             | 80-120               | -   | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1456957-4 QC Sample: L2101804-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Aluminum, Total                                                                                                                | 12600         | 11900            | mg/kg | 6   |      | 20         |
| Antimony, Total                                                                                                                | ND            | ND               | mg/kg | NC  |      | 20         |
| Arsenic, Total                                                                                                                 | 2.83          | 2.88             | mg/kg | 2   |      | 20         |
| Barium, Total                                                                                                                  | 73.2          | 77.9             | mg/kg | 6   |      | 20         |
| Beryllium, Total                                                                                                               | 0.273J        | 0.290J           | mg/kg | NC  |      | 20         |
| Cadmium, Total                                                                                                                 | 0.723J        | 0.704J           | mg/kg | NC  |      | 20         |
| Calcium, Total                                                                                                                 | 2530          | 1930             | mg/kg | 27  | Q    | 20         |
| Chromium, Total                                                                                                                | 22.4          | 21.6             | mg/kg | 4   |      | 20         |
| Cobalt, Total                                                                                                                  | 18.5          | 17.3             | mg/kg | 7   |      | 20         |
| Copper, Total                                                                                                                  | 33.8          | 28.9             | mg/kg | 16  |      | 20         |
| Iron, Total                                                                                                                    | 27000         | 25700            | mg/kg | 5   |      | 20         |
| Lead, Total                                                                                                                    | 10.2          | 10.5             | mg/kg | 3   |      | 20         |
| Magnesium, Total                                                                                                               | 3340          | 3090             | mg/kg | 8   |      | 20         |
| Manganese, Total                                                                                                               | 465           | 438              | mg/kg | 6   |      | 20         |
| Nickel, Total                                                                                                                  | 16.7          | 16.1             | mg/kg | 4   |      | 20         |
| Potassium, Total                                                                                                               | 852           | 830              | mg/kg | 3   |      | 20         |
| Selenium, Total                                                                                                                | ND            | ND               | mg/kg | NC  |      | 20         |
| Silver, Total                                                                                                                  | ND            | ND               | mg/kg | NC  |      | 20         |
| Sodium, Total                                                                                                                  | 1420          | 1360             | mg/kg | 4   |      | 20         |



# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822

**Report Date:** 02/01/21

| Parameter                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1456957-4 QC Sample: L2101804-01 Client ID: DUP Sample |               |                  |       |     |            |
| Thallium, Total                                                                                                                | ND            | ND               | mg/kg | NC  | 20         |
| Vanadium, Total                                                                                                                | 50.7          | 49.1             | mg/kg | 3   | 20         |
| Zinc, Total                                                                                                                    | 49.2          | 55.4             | mg/kg | 12  | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1456958-4 QC Sample: L2101804-01 Client ID: DUP Sample |               |                  |       |     |            |
| Mercury, Total                                                                                                                 | ND            | ND               | mg/kg | NC  | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-01**Client ID:** SB-14 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 07:30**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 82.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-02**Client ID:** SB-14 (17.5-19.5)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 07:50**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 82.6   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-03**Client ID:** SB-12 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 08:00**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 80.0   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-04**Client ID:** SB-12 (6.5-8.5)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 08:40**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-05**Client ID:** SB-15 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 09:00**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.8   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-06

Client ID: SB-15 (14.5-16.5)

Sample Location: STATEN ISLAND

Date Collected: 01/19/21 09:30

Date Received: 01/19/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.9   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |





**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-07**Client ID:** SB-11 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 09:40**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 82.2   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-08**Client ID:** SB-11 (5-7)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 10:00**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 82.1   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-09**Client ID:** SB-16 (0-2)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 10:20**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21**SAMPLE RESULTS****Lab ID:** L2102822-10**Client ID:** SB-16 (7-9)**Sample Location:** STATEN ISLAND**Date Collected:** 01/19/21 10:30**Date Received:** 01/19/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 85.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



Project Name: LIBERTY TOWERS

Lab Number: L2102822

Project Number: LIBERTY TOWERS

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-11

Date Collected: 01/19/21 10:50

Client ID: SB-17 (0-2)

Date Received: 01/19/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 88.9   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2102822

Report Date: 02/01/21

## SAMPLE RESULTS

Lab ID: L2102822-12

Client ID: SB-17 (9-11)

Sample Location: STATEN ISLAND

Date Collected: 01/19/21 11:00

Date Received: 01/19/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.2   |           | %     | 0.100 | NA  | 1                  | -                | 01/20/21 13:30   | 121,2540G            | RI      |



**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2102822**Report Date:** 02/01/21

| Parameter                                                                                                                              | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1456761-1 QC Sample: L2102822-01 Client ID: SB-14 (0-2) |               |                  |       |     |      |            |
| Solids, Total                                                                                                                          | 82.4          | 82.4             | %     | 0   |      | 20         |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

| <b>Cooler</b> | <b>Custody Seal</b> |
|---------------|---------------------|
| A             | Absent              |
| B             | Absent              |
| C             | Absent              |

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-01A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-01B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-01C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-01D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-01E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-01F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.4               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180) |
| L2102822-01G        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-01H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                    |
| L2102822-01I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-01X        | Vial MeOH preserved split              | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-01Y        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-01Z        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-02E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-02F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.4               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180) |
| L2102822-02G        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-02H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-02I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-02X        | Vial MeOH preserved split              | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02Y        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-02Z        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-03E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-03F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.4               | Y           | Absent      |                         | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180) |
| L2102822-03G        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-03H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-03I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-03X        | Vial MeOH preserved split              | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03Y        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-03Z        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04A        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04B        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04C        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04D        | Plastic 2oz unpreserved for TS         | B             | NA                |                 | 3.1               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Serial\_No:** 02012115:20  
**Lab Number:** L2102822  
**Report Date:** 02/01/21

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-04E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-04F | Metals Only-Glass 60mL/2oz unpreserved | B      | NA         |          | 3.1        | Y    | Absent |                  | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),AL-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),PB-Ti(180),ZN-Ti(180),V-Ti(180),CO-Ti(180),MG-Ti(180),FE-Ti(180),HG-T(28),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180) |
| L2102822-04G | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-04H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-04I | Glass 500ml/16oz unpreserved           | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-04X | Vial MeOH preserved split              | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04Y | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-04Z | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05A | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05B | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05C | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05D | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-05E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-05F | Metals Only-Glass 60mL/2oz unpreserved | B      | NA         |          | 3.1        | Y    | Absent |                  | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),PB-Ti(180),ZN-Ti(180),CU-Ti(180),SB-Ti(180),SE-Ti(180),V-Ti(180),CO-Ti(180),MN-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),NA-Ti(180),CA-Ti(180),K-Ti(180),CD-Ti(180) |
| L2102822-05G | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-05H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-05I | Glass 500ml/16oz unpreserved           | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-05X | Vial MeOH preserved split              | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05Y | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-05Z | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-06A | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-06B | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-06C | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-06D        | Plastic 2oz unpreserved for TS         | B             | NA                |                 | 3.1               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-06E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-06F        | Metals Only-Glass 60mL/2oz unpreserved | B             | NA                |                 | 3.1               | Y           | Absent      |                         | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),TL-Ti(180),CR-Ti(180),NI-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),CU-Ti(180),SB-Ti(180),V-Ti(180),CO-Ti(180),MN-Ti(180),FE-Ti(180),MG-Ti(180),HG-T(28),NA-Ti(180),CA-Ti(180),K-Ti(180),CD-Ti(180) |
| L2102822-06G        | Plastic 2oz unpreserved for TS         | B             | NA                |                 | 3.1               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-06H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-06I        | Glass 500ml/16oz unpreserved           | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-06X        | Vial MeOH preserved split              | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-06Y        | Vial Water preserved split             | B             | NA                |                 | 3.1               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-06Z        | Vial Water preserved split             | B             | NA                |                 | 3.1               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07A        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07B        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07C        | 5 gram Encore Sampler                  | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07D        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-07E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-07F        | Metals Only-Glass 60mL/2oz unpreserved | C             | NA                |                 | 3.4               | Y           | Absent      |                         | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),TL-Ti(180),NI-Ti(180),AL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),MG-Ti(180),FE-Ti(180),MN-Ti(180),HG-T(28),NA-Ti(180),CA-Ti(180),K-Ti(180),CD-Ti(180) |
| L2102822-07G        | Plastic 2oz unpreserved for TS         | C             | NA                |                 | 3.4               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-07H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-07I        | Glass 500ml/16oz unpreserved           | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-07X        | Vial MeOH preserved split              | C             | NA                |                 | 3.4               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07Y        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-07Z        | Vial Water preserved split             | C             | NA                |                 | 3.4               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-08A        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-08B        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Serial\_No:**02012115:20  
**Lab Number:** L2102822  
**Report Date:** 02/01/21

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-08C | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-08D | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-08E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-08F | Metals Only-Glass 60mL/2oz unpreserved | B      | NA         |          | 3.1        | Y    | Absent |                  | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180) |
| L2102822-08G | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-08H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-08I | Glass 500ml/16oz unpreserved           | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-08X | Vial MeOH preserved split              | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-08Y | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-08Z | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09A | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09B | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09C | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09D | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.4        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-09E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-09F | Metals Only-Glass 60mL/2oz unpreserved | C      | NA         |          | 3.4        | Y    | Absent |                  | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180) |
| L2102822-09G | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.4        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-09H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-09I | Glass 500ml/16oz unpreserved           | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-09X | Vial MeOH preserved split              | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09Y | Vial Water preserved split             | C      | NA         |          | 3.4        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-09Z | Vial Water preserved split             | C      | NA         |          | 3.4        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-10A | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Serial\_No:** 02012115:20  
**Lab Number:** L2102822  
**Report Date:** 02/01/21

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-10B | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-10C | 5 gram Encore Sampler                  | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-10D | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.4        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-10E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-10F | Metals Only-Glass 60mL/2oz unpreserved | C      | NA         |          | 3.4        | Y    | Absent |                  | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),SE-Ti(180),ZN-Ti(180),CU-Ti(180),SB-Ti(180),PB-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),FE-Ti(180),MG-Ti(180),MN-Ti(180),CD-Ti(180),K-Ti(180),CA-Ti(180),NA-Ti(180) |
| L2102822-10G | Plastic 2oz unpreserved for TS         | C      | NA         |          | 3.4        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-10H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-10I | Glass 500ml/16oz unpreserved           | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-10X | Vial MeOH preserved split              | C      | NA         |          | 3.4        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-10Y | Vial Water preserved split             | C      | NA         |          | 3.4        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-10Z | Vial Water preserved split             | C      | NA         |          | 3.4        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11A | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11B | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11C | 5 gram Encore Sampler                  | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11D | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-11E | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-11F | Metals Only-Glass 60mL/2oz unpreserved | B      | NA         |          | 3.1        | Y    | Absent |                  | BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),NI-Ti(180),TL-Ti(180),CR-Ti(180),AL-Ti(180),SB-Ti(180),ZN-Ti(180),SE-Ti(180),PB-Ti(180),CU-Ti(180),V-Ti(180),CO-Ti(180),HG-T(28),FE-Ti(180),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180) |
| L2102822-11G | Plastic 2oz unpreserved for TS         | B      | NA         |          | 3.1        | Y    | Absent |                  | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-11H | Plastic 8oz unpreserved                | A      | NA         |          | 3.6        | Y    | Absent |                  | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-11I | Glass 500ml/16oz unpreserved           | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-11X | Vial MeOH preserved split              | B      | NA         |          | 3.1        | Y    | Absent |                  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11Y | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-11Z | Vial Water preserved split             | B      | NA         |          | 3.1        | Y    | Absent | 20-JAN-21 06:02  | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2102822**Project Number:** LIBERTY TOWERS**Report Date:** 02/01/21**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                  | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                       |
|---------------------|----------------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2102822-12A        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-12B        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-12C        | 5 gram Encore Sampler                  | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-12D        | Plastic 2oz unpreserved for TS         | B             | NA                |                 | 3.1               | Y           | Absent      |                         | TS(7)                                                                                                                                                                                                                                                    |
| L2102822-12E        | Plastic 2oz unpreserved for TS         | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-12F        | Metals Only-Glass 60mL/2oz unpreserved | B             | NA                |                 | 3.1               | Y           | Absent      |                         | BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180) |
| L2102822-12G        | Plastic 2oz unpreserved for TS         | B             | NA                |                 | 3.1               | Y           | Absent      |                         | HOLD-WETCHEM()                                                                                                                                                                                                                                           |
| L2102822-12H        | Plastic 8oz unpreserved                | A             | NA                |                 | 3.6               | Y           | Absent      |                         | HOLD-537(28)                                                                                                                                                                                                                                             |
| L2102822-12I        | Glass 500ml/16oz unpreserved           | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |
| L2102822-12X        | Vial MeOH preserved split              | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-12Y        | Vial Water preserved split             | B             | NA                |                 | 3.1               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-12Z        | Vial Water preserved split             | B             | NA                |                 | 3.1               | Y           | Absent      | 20-JAN-21 06:02         | NYTCL-8260HLW(14)                                                                                                                                                                                                                                        |
| L2102822-13A        | Vial HCl preserved                     | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |
| L2102822-13B        | Vial HCl preserved                     | B             | NA                |                 | 3.1               | Y           | Absent      |                         | NYTCL-8260(14)                                                                                                                                                                                                                                           |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

Serial\_No:02012115:20  
**Lab Number:** L2102822  
**Report Date:** 02/01/21

### PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)                                 |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDaA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| PERFLUOROALKYL SULFONIC ACIDS (PFSA's)                                  |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDaDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| FLUOROTELOMERS                                                          |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs)                                    |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| PERFLUOROALKANE SULFONYL SUBSTANCES                                     |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS                         |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS                                    |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESA's)                                 |              |             |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid                                  | PFEEESA      | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCA's)                     |              |             |
| Perfluoro-3-Methoxypropanoic Acid                                       | PFMPA        | 377-73-1    |
| Perfluoro-4-Methoxybutanoic Acid                                        | PFMBA        | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid                                      | NFDHA        | 151772-58-6 |

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

## GLOSSARY

### Acronyms

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

Report Format: DU Report with 'J' Qualifiers





**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

#### Footnotes

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

#### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

**Data Qualifiers**

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2102822  
**Report Date:** 02/01/21

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

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

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



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

Revision 17

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Page 1 of 1

**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, NO<sub>2</sub>, NO<sub>3</sub>.**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.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193<br>Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                                                                 |           | Page<br><b>1 of 2</b>                                                                                                                                                                                                     |    | Date Rec'd in Lab<br><b>1/20/21</b>                                                           |               | ALPHA Job #<br><b>L2102822</b>                                                     |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
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| <b>Client Information</b><br>Client: <b>Tenen Environmental</b><br>Address: <b>121 West 27th Street</b><br><b>Suite 703, NY, NY 10001</b><br>Phone: <b>646-606-2332</b><br>Fax: <b>a.platt@tenen-env.com</b><br>Email: <b>a.carroll@tenen-env.com</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge                   |           | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: |    |                                                                                               |               |                                                                                    |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:<br><b>HOLD <del>for</del> PFAS, 1,4-Dioxane, Cyanide, &amp; tri/hex chromium for ALL SAMPLES</b><br>Please specify Metals or TAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | <b>ANALYSIS</b>                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br><input type="checkbox"/> Lab to do<br>(Please Specify below)                                                           |    | Total Bottles                                                                                 |               |                                                                                    |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID<br/>(Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">VOCs</th> <th rowspan="2">SVOCs</th> <th rowspan="2">TAL Metals</th> <th rowspan="2">Pest/Herb/PCBs</th> <th rowspan="2">PFAS</th> <th rowspan="2">1,4-Dioxane</th> <th rowspan="2">Cyanide</th> <th rowspan="2">Tri/Hex Chromium</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>02822 -01</td><td>SB-14 (0-2)</td><td>1/19/21</td><td>7:30</td><td>Soil</td><td>AP</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-02</td><td>SB-14 (17.5-19.5)</td><td></td><td>7:50</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-03</td><td>SB-12 (0-2)</td><td></td><td>8:00</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-04</td><td>SB-12 (6.5-8.5)</td><td></td><td>8:40</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-05</td><td>SB-15 (0-2)</td><td></td><td>9:00</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-06</td><td>SB-15 (14.5-16.5)</td><td></td><td>9:30</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-07</td><td>SB-11 (0-2)</td><td></td><td>9:40</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-08</td><td>SB-11 (5-7)</td><td></td><td>10:00</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-09</td><td>SB-16 (0-2)</td><td></td><td>10:20</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-10</td><td>SB-16 (7-9)</td><td></td><td>10:30</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |                   | ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                                                                                                                                                                          | Sample ID | Collection                                                                                                                                                                                                                |    |                                                                                               | Sample Matrix | Sampler's Initials                                                                 | VOCs | SVOCs                                                           | TAL Metals | Pest/Herb/PCBs                                                                     | PFAS | 1,4-Dioxane | Cyanide | Tri/Hex Chromium | Sample Specific Comments | Date          | Time               | 02822 -01 | SB-14 (0-2) | 1/19/21    | 7:30           | Soil | AP          | X       | X                | X                        | X |  |  |  |  |  | -02 | SB-14 (17.5-19.5) |  | 7:50 |  |  | X | X | X | X |  |  |  |  |  | -03 | SB-12 (0-2) |  | 8:00 |  |  | X | X | X | X |  |  |  |  |  | -04 | SB-12 (6.5-8.5) |  | 8:40 |  |  | X | X | X | X |  |  |  |  |  | -05 | SB-15 (0-2) |  | 9:00 |  |  | X | X | X | X |  |  |  |  |  | -06 | SB-15 (14.5-16.5) |  | 9:30 |  |  | X | X | X | X |  |  |  |  |  | -07 | SB-11 (0-2) |  | 9:40 |  |  | X | X | X | X |  |  |  |  |  | -08 | SB-11 (5-7) |  | 10:00 |  |  | X | X | X | X |  |  |  |  |  | -09 | SB-16 (0-2) |  | 10:20 |  |  | X | X | X | X |  |  |  |  |  | -10 | SB-16 (7-9) |  | 10:30 |  |  | X | X | X | X |  |  |  |  |  | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Container Type</th> <th>E</th> <th>A</th> <th>A</th> <th>A</th> <th>P</th> <th>A</th> <th>A</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>Preservative</td> <td>A</td> <td>A</td> <td>A</td> <td>A</td> <td>A</td> <td>A</td> <td>A</td> <td>A</td> </tr> </tbody> </table> |  | Container Type | E | A | A | A | P | A | A | A | Preservative | A | A | A | A | A | A | A | A | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |
| ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sample ID         |                                                                                                                                                                                                                                                                                                                                                                                                         |           | Collection                                                                                                                                                                                                                |    |                                                                                               |               |                                                                                    |      |                                                                 |            |                                                                                    |      |             |         |                  |                          | Sample Matrix | Sampler's Initials | VOCs      | SVOCs       | TAL Metals | Pest/Herb/PCBs | PFAS | 1,4-Dioxane | Cyanide | Tri/Hex Chromium | Sample Specific Comments |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | Date                                                                                                                                                                                                                                                                                                                                                                                                    | Time      |                                                                                                                                                                                                                           |    |                                                                                               |               |                                                                                    |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| 02822 -01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SB-14 (0-2)       | 1/19/21                                                                                                                                                                                                                                                                                                                                                                                                 | 7:30      | Soil                                                                                                                                                                                                                      | AP |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-14 (17.5-19.5) |                                                                                                                                                                                                                                                                                                                                                                                                         | 7:50      |                                                                                                                                                                                                                           |    |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-12 (0-2)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 8:00      |                                                                                                                                                                                                                           |    |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-12 (6.5-8.5)   |                                                                                                                                                                                                                                                                                                                                                                                                         | 8:40      |                                                                                                                                                                                                                           |    |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-15 (0-2)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 9:00      |                                                                                                                                                                                                                           |    |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-15 (14.5-16.5) |                                                                                                                                                                                                                                                                                                                                                                                                         | 9:30      |                                                                                                                                                                                                                           |    |                                                                                               | X             | X                                                                                  | X    | X                                                               |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-11 (0-2)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 9:40      |                                                                                                                                                                                                                           |    | X                                                                                             | X             | X                                                                                  | X    |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-11 (5-7)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 10:00     |                                                                                                                                                                                                                           |    | X                                                                                             | X             | X                                                                                  | X    |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-16 (0-2)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 10:20     |                                                                                                                                                                                                                           |    | X                                                                                             | X             | X                                                                                  | X    |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| -10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SB-16 (7-9)       |                                                                                                                                                                                                                                                                                                                                                                                                         | 10:30     |                                                                                                                                                                                                                           |    | X                                                                                             | X             | X                                                                                  | X    |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| Container Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | E                 | A                                                                                                                                                                                                                                                                                                                                                                                                       | A         | A                                                                                                                                                                                                                         | P  | A                                                                                             | A             | A                                                                                  |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A                 | A                                                                                                                                                                                                                                                                                                                                                                                                       | A         | A                                                                                                                                                                                                                         | A  | A                                                                                             | A             | A                                                                                  |      |                                                                 |            |                                                                                    |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |
| Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | Container Code:<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                                                                                                                                                                                                                                 |           | Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015                                                                                                                                                   |    | Relinquished By:<br><b>A. Platt/Tenen</b><br><b>AKC/AL</b><br><b>8/26 AAL</b>                 |               | Date/Time:<br><b>1/19/21 12:20</b><br><b>1/19/21 18:30</b><br><b>1/20/21 00:20</b> |      | Received By:<br><b>AKC/AL</b><br><b>AKC/AL</b><br><b>AKC/AL</b> |            | Date/Time:<br><b>1/19/21 12:20</b><br><b>1/19/21 21:00</b><br><b>1/20/21 00:20</b> |      |             |         |                  |                          |               |                    |           |             |            |                |      |             |         |                  |                          |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                 |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |                   |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |      |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |     |             |  |       |  |  |   |   |   |   |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                  |  |                |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                              |







## ANALYTICAL REPORT

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Lab Number:     | L2103206                                                                                 |
| Client:         | Tenen Environmental, LLC<br>121 West 27th Street<br>Suite 702<br>New York City, NY 10001 |
| ATTN:           | Alana Carroll                                                                            |
| Phone:          | (646) 606-2332                                                                           |
| Project Name:   | LIBERTY TOWERS                                                                           |
| Project Number: | LIBERTY TOWERS                                                                           |
| Report Date:    | 01/27/21                                                                                 |

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

Certifications & Approvals: MA (M-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).

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



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2103206**Report Date:** 01/27/21

| Alpha<br>Sample ID | Client ID | Matrix     | Sample<br>Location | Collection<br>Date/Time | Receive Date |
|--------------------|-----------|------------|--------------------|-------------------------|--------------|
| L2103206-01        | SV-7      | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:09          | 01/21/21     |
| L2103206-02        | SV-8      | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:17          | 01/21/21     |
| L2103206-03        | SV-9      | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:51          | 01/21/21     |
| L2103206-04        | SV-10     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:49          | 01/21/21     |
| L2103206-05        | SV-11     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:26          | 01/21/21     |
| L2103206-06        | SV-12     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:30          | 01/21/21     |
| L2103206-07        | SV-13     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:39          | 01/21/21     |
| L2103206-08        | SV-14     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:40          | 01/21/21     |
| L2103206-09        | SV-15     | SOIL_VAPOR | STATEN ISLAND      | 01/21/21 09:41          | 01/21/21     |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on January 21, 2021. The canister certification results are provided as an addendum.

L2103206-06: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2103206-08: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2103206-09: 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: 01/27/21

**AIR**

**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-01  
 Client ID: SV-7  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:09  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 01:00  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.438   | 0.200 | --  | 2.17    | 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                                  | 8.30    | 1.00  | --  | 19.7    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.233   | 0.200 | --  | 1.31    | 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                         | 0.365   | 0.200 | --  | 1.14    | 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                               | 70.4    | 0.500 | --  | 208     | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-01

Date Collected: 01/21/21 09:09

Client ID: SV-7

Date Received: 01/21/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 2.49    | 0.200 | --  | 8.78    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 1.80    | 0.200 | --  | 5.75    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.296   | 0.200 | --  | 1.02    | 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                   | 1.04    | 0.200 | --  | 4.86    | 0.934 | --  |           | 1               |
| Heptane                                  | 2.18    | 0.200 | --  | 8.93    | 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                                  | 31.2    | 0.200 | --  | 118     | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 5.00    | 0.200 | --  | 20.5    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.349   | 0.200 | --  | 2.37    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 5.42    | 0.200 | --  | 23.5    | 0.869 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-01

Date Collected: 01/21/21 09:09

Client ID: SV-7

Date Received: 01/21/21

Sample Location: STATEN ISLAND

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                               | 17.4    | 0.400 | --  | 75.6    | 1.74  | --  |           | 1               |
| Bromoform                                | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                  | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                 | 4.61    | 0.200 | --  | 20.0    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 0.941   | 0.200 | --  | 4.63    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.392   | 0.200 | --  | 1.93    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 1.67    | 0.200 | --  | 8.21    | 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 | 94         |           | 60-140              |
| Bromochloromethane  | 91         |           | 60-140              |
| chlorobenzene-d5    | 93         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-02  
 Client ID: SV-8  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:17  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 01:39  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.424   | 0.200 | --  | 2.10    | 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                                  | 7.15    | 1.00  | --  | 17.0    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.227   | 0.200 | --  | 1.28    | 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                         | 0.257   | 0.200 | --  | 0.800   | 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                               | 82.7    | 0.500 | --  | 244     | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-02

Client ID: SV-8

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:17

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 2.45    | 0.200 | --  | 8.63    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 1.77    | 0.200 | --  | 5.65    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.215   | 0.200 | --  | 0.740   | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                      | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                     | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                              | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                          | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                   | 0.440   | 0.200 | --  | 2.06    | 0.934 | --  |           | 1               |
| Heptane                                  | 2.17    | 0.200 | --  | 8.89    | 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                                  | 30.1    | 0.200 | --  | 113     | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 5.76    | 0.200 | --  | 23.6    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.391   | 0.200 | --  | 2.65    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 5.46    | 0.200 | --  | 23.7    | 0.869 | --  |           | 1               |





**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-02  
 Client ID: SV-8  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:17  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 18.0    | 0.400 | --  | 78.2    | 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                                 | 4.89    | 0.200 | --  | 21.2    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 1.11    | 0.200 | --  | 5.46    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.592   | 0.200 | --  | 2.91    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 2.53    | 0.200 | --  | 12.4    | 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 | 96         |           | 60-140              |
| Bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 95         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-03  
 Client ID: SV-9  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:51  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 02:18  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.430   | 0.200 | --  | 2.13    | 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                                  | 2.57    | 1.00  | --  | 6.10    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.226   | 0.200 | --  | 1.27    | 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                         | 0.748   | 0.200 | --  | 2.33    | 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                               | 31.8    | 0.500 | --  | 93.8    | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-03

Date Collected: 01/21/21 09:51

Client ID: SV-9

Date Received: 01/21/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | 0.207   | 0.200 | --  | 1.01    | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 1.35    | 0.200 | --  | 4.76    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 1.22    | 0.200 | --  | 3.90    | 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                   | 0.767   | 0.200 | --  | 3.58    | 0.934 | --  |           | 1               |
| Heptane                                  | 1.53    | 0.200 | --  | 6.27    | 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                                  | 24.3    | 0.200 | --  | 91.6    | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 4.54    | 0.200 | --  | 18.6    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.279   | 0.200 | --  | 1.89    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 5.18    | 0.200 | --  | 22.5    | 0.869 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-03  
 Client ID: SV-9  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:51  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 18.4    | 0.400 | --  | 79.9    | 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                                 | 5.00    | 0.200 | --  | 21.7    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 1.15    | 0.200 | --  | 5.65    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.665   | 0.200 | --  | 3.27    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 2.81    | 0.200 | --  | 13.8    | 0.983 | --  |           | 1               |
| Benzyl chloride                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                   | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                      | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 94         |           | 60-140              |
| Bromochloromethane  | 94         |           | 60-140              |
| chlorobenzene-d5    | 95         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2103206**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-04  
 Client ID: SV-10  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:49  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 02:56  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.475   | 0.200 | --  | 2.35    | 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                                  | 3.82    | 1.00  | --  | 9.07    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.229   | 0.200 | --  | 1.29    | 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                               | 49.6    | 0.500 | --  | 146     | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-04

Client ID: SV-10

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:49

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | 0.745   | 0.200 | --  | 3.64    | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 2.17    | 0.200 | --  | 7.65    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 1.61    | 0.200 | --  | 5.14    | 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                   | 0.349   | 0.200 | --  | 1.63    | 0.934 | --  |           | 1               |
| Heptane                                  | 2.08    | 0.200 | --  | 8.52    | 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                                  | 28.4    | 0.200 | --  | 107     | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 5.00    | 0.200 | --  | 20.5    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.302   | 0.200 | --  | 2.05    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 5.17    | 0.200 | --  | 22.5    | 0.869 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-04  
 Client ID: SV-10  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:49  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 17.4    | 0.400 | --  | 75.6    | 1.74  | --  |           | 1               |
| Bromoform                                | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                  | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                 | 4.35    | 0.200 | --  | 18.9    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 0.872   | 0.200 | --  | 4.29    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.370   | 0.200 | --  | 1.82    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 1.67    | 0.200 | --  | 8.21    | 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 | 94         |           | 60-140              |
| Bromochloromethane  | 94         |           | 60-140              |
| chlorobenzene-d5    | 93         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-05  
 Client ID: SV-11  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:26  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 03:35  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.445   | 0.200 | --  | 2.20    | 0.989 | --  |           | 1               |
| Chloromethane                            | 0.205   | 0.200 | --  | 0.423   | 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                                  | 2.49    | 1.00  | --  | 5.91    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.310   | 0.200 | --  | 1.74    | 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                               | 22.6    | 0.500 | --  | 66.7    | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |





**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-05

Client ID: SV-11

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:26

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | 0.421   | 0.200 | --  | 2.06    | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 0.822   | 0.200 | --  | 2.90    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 0.632   | 0.200 | --  | 2.02    | 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                   | 0.322   | 0.200 | --  | 1.50    | 0.934 | --  |           | 1               |
| Heptane                                  | 0.758   | 0.200 | --  | 3.11    | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                  | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                     | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                  | 9.43    | 0.200 | --  | 35.5    | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 0.945   | 0.200 | --  | 3.87    | 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                             | 1.17    | 0.200 | --  | 5.08    | 0.869 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-05  
 Client ID: SV-11  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:26  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 3.72    | 0.400 | --  | 16.2    | 1.74  | --  |           | 1               |
| Bromoform                                | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                  | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                 | 0.888   | 0.200 | --  | 3.86    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 0.355   | 0.200 | --  | 1.75    | 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 | 93         |           | 60-140              |
| Bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 91         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-06  
 Client ID: SV-12  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:30  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 04:14  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 1.53    | 0.200 | --  | 7.57    | 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                                  | 7.00    | 5.00  | --  | 13.2    | 9.42  | --  |           | 1               |
| Vinyl bromide                            | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                  | 10.3    | 1.00  | --  | 24.5    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 1.97    | 0.200 | --  | 11.1    | 1.12  | --  |           | 1               |
| Isopropanol                              | 0.514   | 0.500 | --  | 1.26    | 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                         | 0.376   | 0.200 | --  | 1.17    | 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                               | 110     | 0.500 | --  | 324     | 1.47  | --  | E         | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-06

Client ID: SV-12

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:30

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | 0.736   | 0.200 | --  | 3.59    | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | 0.671   | 0.500 | --  | 1.98    | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 6.34    | 0.200 | --  | 22.3    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 4.30    | 0.200 | --  | 13.7    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.664   | 0.200 | --  | 2.29    | 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                   | 1.24    | 0.200 | --  | 5.79    | 0.934 | --  |           | 1               |
| Heptane                                  | 5.94    | 0.200 | --  | 24.3    | 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                                  | 56.6    | 0.200 | --  | 213     | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 10.7    | 0.200 | --  | 43.9    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.441   | 0.200 | --  | 2.99    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 7.31    | 0.200 | --  | 31.8    | 0.869 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-06  
 Client ID: SV-12  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:30  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 22.2    | 0.400 | --  | 96.4    | 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                                 | 5.82    | 0.200 | --  | 25.3    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 1.07    | 0.200 | --  | 5.26    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.559   | 0.200 | --  | 2.75    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 2.31    | 0.200 | --  | 11.4    | 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 | 96         |           | 60-140              |
| Bromochloromethane  | 96         |           | 60-140              |
| chlorobenzene-d5    | 96         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-06 D

Client ID: SV-12

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:30

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 01/27/21 06:43

Analyst: RY

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| 2-Butanone                               | 110     | 1.00 | --  | 324     | 2.95 | --  |           | 2               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 96         |           | 60-140              |
| Bromochloromethane  | 97         |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |

**Project Name:** LIBERTY TOWERS**Project Number:** LIBERTY TOWERS**Lab Number:** L2103206**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-07  
 Client ID: SV-13  
 Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:39  
 Date Received: 01/21/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/27/21 04:53  
 Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 1.53    | 0.200 | --  | 7.57    | 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                                  | 7.71    | 1.00  | --  | 18.3    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 3.98    | 0.200 | --  | 22.4    | 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                         | 0.353   | 0.200 | --  | 1.10    | 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                               | 92.8    | 0.500 | --  | 274     | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-07

Date Collected: 01/21/21 09:39

Client ID: SV-13

Date Received: 01/21/21

Sample Location: STATEN ISLAND

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | 0.660   | 0.200 | --  | 3.22    | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 3.80    | 0.200 | --  | 13.4    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | 0.238   | 0.200 | --  | 1.30    | 1.09  | --  |           | 1               |
| Benzene                                  | 3.19    | 0.200 | --  | 10.2    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.385   | 0.200 | --  | 1.33    | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                      | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                     | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                              | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                          | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                   | 0.736   | 0.200 | --  | 3.44    | 0.934 | --  |           | 1               |
| Heptane                                  | 4.54    | 0.200 | --  | 18.6    | 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                                  | 48.4    | 0.200 | --  | 182     | 0.754 | --  |           | 1               |
| 2-Hexanone                               | 9.22    | 0.200 | --  | 37.8    | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 0.393   | 0.200 | --  | 2.67    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 6.96    | 0.200 | --  | 30.2    | 0.869 | --  |           | 1               |





**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-07

Date Collected: 01/21/21 09:39

Client ID: SV-13

Date Received: 01/21/21

Sample Location: STATEN ISLAND

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                               | 21.6    | 0.400 | --  | 93.8    | 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                                 | 5.76    | 0.200 | --  | 25.0    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | 1.25    | 0.200 | --  | 6.15    | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.707   | 0.200 | --  | 3.48    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 2.93    | 0.200 | --  | 14.4    | 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 | 96         |           | 60-140              |
| Bromochloromethane  | 96         |           | 60-140              |
| chlorobenzene-d5    | 96         |           | 60-140              |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-08 D

Client ID: SV-14

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:40

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 01/27/21 05:29

Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | 0.776   | 0.667 | --  | 3.84    | 3.30 | --  |           | 3.333           |
| Chloromethane                            | ND      | 0.667 | --  | ND      | 1.38 | --  |           | 3.333           |
| Freon-114                                | ND      | 0.667 | --  | ND      | 4.66 | --  |           | 3.333           |
| Vinyl chloride                           | ND      | 0.667 | --  | ND      | 1.71 | --  |           | 3.333           |
| 1,3-Butadiene                            | 0.820   | 0.667 | --  | 1.81    | 1.48 | --  |           | 3.333           |
| Bromomethane                             | ND      | 0.667 | --  | ND      | 2.59 | --  |           | 3.333           |
| Chloroethane                             | ND      | 0.667 | --  | ND      | 1.76 | --  |           | 3.333           |
| Ethanol                                  | ND      | 16.7  | --  | ND      | 31.5 | --  |           | 3.333           |
| Vinyl bromide                            | ND      | 0.667 | --  | ND      | 2.92 | --  |           | 3.333           |
| Acetone                                  | ND      | 3.33  | --  | ND      | 7.91 | --  |           | 3.333           |
| Trichlorofluoromethane                   | 3.37    | 0.667 | --  | 18.9    | 3.75 | --  |           | 3.333           |
| Isopropanol                              | ND      | 1.67  | --  | ND      | 4.10 | --  |           | 3.333           |
| 1,1-Dichloroethene                       | ND      | 0.667 | --  | ND      | 2.64 | --  |           | 3.333           |
| Tertiary butyl Alcohol                   | ND      | 1.67  | --  | ND      | 5.06 | --  |           | 3.333           |
| Methylene chloride                       | ND      | 1.67  | --  | ND      | 5.80 | --  |           | 3.333           |
| 3-Chloropropene                          | ND      | 0.667 | --  | ND      | 2.09 | --  |           | 3.333           |
| Carbon disulfide                         | 0.806   | 0.667 | --  | 2.51    | 2.08 | --  |           | 3.333           |
| Freon-113                                | ND      | 0.667 | --  | ND      | 5.11 | --  |           | 3.333           |
| trans-1,2-Dichloroethene                 | ND      | 0.667 | --  | ND      | 2.64 | --  |           | 3.333           |
| 1,1-Dichloroethane                       | ND      | 0.667 | --  | ND      | 2.70 | --  |           | 3.333           |
| Methyl tert butyl ether                  | ND      | 0.667 | --  | ND      | 2.40 | --  |           | 3.333           |
| 2-Butanone                               | 19.2    | 1.67  | --  | 56.6    | 4.93 | --  |           | 3.333           |
| cis-1,2-Dichloroethene                   | ND      | 0.667 | --  | ND      | 2.64 | --  |           | 3.333           |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-08 D

Client ID: SV-14

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:40

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 1.67  | --  | ND      | 6.02 | --  |           | 3.333           |
| Chloroform                               | ND      | 0.667 | --  | ND      | 3.26 | --  |           | 3.333           |
| Tetrahydrofuran                          | ND      | 1.67  | --  | ND      | 4.93 | --  |           | 3.333           |
| 1,2-Dichloroethane                       | ND      | 0.667 | --  | ND      | 2.70 | --  |           | 3.333           |
| n-Hexane                                 | 4.38    | 0.667 | --  | 15.4    | 2.35 | --  |           | 3.333           |
| 1,1,1-Trichloroethane                    | ND      | 0.667 | --  | ND      | 3.64 | --  |           | 3.333           |
| Benzene                                  | 6.66    | 0.667 | --  | 21.3    | 2.13 | --  |           | 3.333           |
| Carbon tetrachloride                     | ND      | 0.667 | --  | ND      | 4.20 | --  |           | 3.333           |
| Cyclohexane                              | 0.946   | 0.667 | --  | 3.26    | 2.30 | --  |           | 3.333           |
| 1,2-Dichloropropane                      | ND      | 0.667 | --  | ND      | 3.08 | --  |           | 3.333           |
| Bromodichloromethane                     | ND      | 0.667 | --  | ND      | 4.47 | --  |           | 3.333           |
| 1,4-Dioxane                              | ND      | 0.667 | --  | ND      | 2.40 | --  |           | 3.333           |
| Trichloroethene                          | ND      | 0.667 | --  | ND      | 3.58 | --  |           | 3.333           |
| 2,2,4-Trimethylpentane                   | 7.65    | 0.667 | --  | 35.7    | 3.12 | --  |           | 3.333           |
| Heptane                                  | 14.2    | 0.667 | --  | 58.2    | 2.73 | --  |           | 3.333           |
| cis-1,3-Dichloropropene                  | ND      | 0.667 | --  | ND      | 3.03 | --  |           | 3.333           |
| 4-Methyl-2-pentanone                     | ND      | 1.67  | --  | ND      | 6.84 | --  |           | 3.333           |
| trans-1,3-Dichloropropene                | ND      | 0.667 | --  | ND      | 3.03 | --  |           | 3.333           |
| 1,1,2-Trichloroethane                    | ND      | 0.667 | --  | ND      | 3.64 | --  |           | 3.333           |
| Toluene                                  | 238     | 0.667 | --  | 897     | 2.51 | --  |           | 3.333           |
| 2-Hexanone                               | ND      | 0.667 | --  | ND      | 2.73 | --  |           | 3.333           |
| Dibromochloromethane                     | ND      | 0.667 | --  | ND      | 5.68 | --  |           | 3.333           |
| 1,2-Dibromoethane                        | ND      | 0.667 | --  | ND      | 5.13 | --  |           | 3.333           |
| Tetrachloroethene                        | ND      | 0.667 | --  | ND      | 4.52 | --  |           | 3.333           |
| Chlorobenzene                            | ND      | 0.667 | --  | ND      | 3.07 | --  |           | 3.333           |
| Ethylbenzene                             | 46.8    | 0.667 | --  | 203     | 2.90 | --  |           | 3.333           |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-08 D

Client ID: SV-14

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:40

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | 146     | 1.33  | --  | 634     | 5.78 | --  |           | 3.333           |
| Bromoform                                | ND      | 0.667 | --  | ND      | 6.90 | --  |           | 3.333           |
| Styrene                                  | ND      | 0.667 | --  | ND      | 2.84 | --  |           | 3.333           |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.667 | --  | ND      | 4.58 | --  |           | 3.333           |
| o-Xylene                                 | 40.4    | 0.667 | --  | 175     | 2.90 | --  |           | 3.333           |
| 4-Ethyltoluene                           | 11.5    | 0.667 | --  | 56.5    | 3.28 | --  |           | 3.333           |
| 1,3,5-Trimethylbenzene                   | 5.32    | 0.667 | --  | 26.2    | 3.28 | --  |           | 3.333           |
| 1,2,4-Trimethylbenzene                   | 19.7    | 0.667 | --  | 96.8    | 3.28 | --  |           | 3.333           |
| Benzyl chloride                          | ND      | 0.667 | --  | ND      | 3.45 | --  |           | 3.333           |
| 1,3-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,4-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,2-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,2,4-Trichlorobenzene                   | ND      | 0.667 | --  | ND      | 4.95 | --  |           | 3.333           |
| Hexachlorobutadiene                      | ND      | 0.667 | --  | ND      | 7.11 | --  |           | 3.333           |

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



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-09 D

Client ID: SV-15

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:41

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 01/27/21 06:06

Analyst: RY

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 0.500 | --  | ND      | 2.47 | --  |           | 2.5             |
| Chloromethane                            | ND      | 0.500 | --  | ND      | 1.03 | --  |           | 2.5             |
| Freon-114                                | ND      | 0.500 | --  | ND      | 3.49 | --  |           | 2.5             |
| Vinyl chloride                           | ND      | 0.500 | --  | ND      | 1.28 | --  |           | 2.5             |
| 1,3-Butadiene                            | ND      | 0.500 | --  | ND      | 1.11 | --  |           | 2.5             |
| Bromomethane                             | ND      | 0.500 | --  | ND      | 1.94 | --  |           | 2.5             |
| Chloroethane                             | ND      | 0.500 | --  | ND      | 1.32 | --  |           | 2.5             |
| Ethanol                                  | ND      | 12.5  | --  | ND      | 23.6 | --  |           | 2.5             |
| Vinyl bromide                            | ND      | 0.500 | --  | ND      | 2.19 | --  |           | 2.5             |
| Acetone                                  | 2.59    | 2.50  | --  | 6.15    | 5.94 | --  |           | 2.5             |
| Trichlorofluoromethane                   | ND      | 0.500 | --  | ND      | 2.81 | --  |           | 2.5             |
| Isopropanol                              | ND      | 1.25  | --  | ND      | 3.07 | --  |           | 2.5             |
| 1,1-Dichloroethene                       | ND      | 0.500 | --  | ND      | 1.98 | --  |           | 2.5             |
| Tertiary butyl Alcohol                   | ND      | 1.25  | --  | ND      | 3.79 | --  |           | 2.5             |
| Methylene chloride                       | ND      | 1.25  | --  | ND      | 4.34 | --  |           | 2.5             |
| 3-Chloropropene                          | ND      | 0.500 | --  | ND      | 1.57 | --  |           | 2.5             |
| Carbon disulfide                         | ND      | 0.500 | --  | ND      | 1.56 | --  |           | 2.5             |
| Freon-113                                | ND      | 0.500 | --  | ND      | 3.83 | --  |           | 2.5             |
| trans-1,2-Dichloroethene                 | ND      | 0.500 | --  | ND      | 1.98 | --  |           | 2.5             |
| 1,1-Dichloroethane                       | ND      | 0.500 | --  | ND      | 2.02 | --  |           | 2.5             |
| Methyl tert butyl ether                  | ND      | 0.500 | --  | ND      | 1.80 | --  |           | 2.5             |
| 2-Butanone                               | 30.3    | 1.25  | --  | 89.4    | 3.69 | --  |           | 2.5             |
| cis-1,2-Dichloroethene                   | ND      | 0.500 | --  | ND      | 1.98 | --  |           | 2.5             |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-09 D

Client ID: SV-15

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:41

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 1.25  | --  | ND      | 4.50 | --  |           | 2.5             |
| Chloroform                               | ND      | 0.500 | --  | ND      | 2.44 | --  |           | 2.5             |
| Tetrahydrofuran                          | ND      | 1.25  | --  | ND      | 3.69 | --  |           | 2.5             |
| 1,2-Dichloroethane                       | ND      | 0.500 | --  | ND      | 2.02 | --  |           | 2.5             |
| n-Hexane                                 | 2.16    | 0.500 | --  | 7.61    | 1.76 | --  |           | 2.5             |
| 1,1,1-Trichloroethane                    | ND      | 0.500 | --  | ND      | 2.73 | --  |           | 2.5             |
| Benzene                                  | 4.01    | 0.500 | --  | 12.8    | 1.60 | --  |           | 2.5             |
| Carbon tetrachloride                     | ND      | 0.500 | --  | ND      | 3.15 | --  |           | 2.5             |
| Cyclohexane                              | ND      | 0.500 | --  | ND      | 1.72 | --  |           | 2.5             |
| 1,2-Dichloropropane                      | ND      | 0.500 | --  | ND      | 2.31 | --  |           | 2.5             |
| Bromodichloromethane                     | ND      | 0.500 | --  | ND      | 3.35 | --  |           | 2.5             |
| 1,4-Dioxane                              | ND      | 0.500 | --  | ND      | 1.80 | --  |           | 2.5             |
| Trichloroethene                          | ND      | 0.500 | --  | ND      | 2.69 | --  |           | 2.5             |
| 2,2,4-Trimethylpentane                   | 2.75    | 0.500 | --  | 12.8    | 2.34 | --  |           | 2.5             |
| Heptane                                  | 7.08    | 0.500 | --  | 29.0    | 2.05 | --  |           | 2.5             |
| cis-1,3-Dichloropropene                  | ND      | 0.500 | --  | ND      | 2.27 | --  |           | 2.5             |
| 4-Methyl-2-pentanone                     | ND      | 1.25  | --  | ND      | 5.12 | --  |           | 2.5             |
| trans-1,3-Dichloropropene                | ND      | 0.500 | --  | ND      | 2.27 | --  |           | 2.5             |
| 1,1,2-Trichloroethane                    | ND      | 0.500 | --  | ND      | 2.73 | --  |           | 2.5             |
| Toluene                                  | 158     | 0.500 | --  | 595     | 1.88 | --  |           | 2.5             |
| 2-Hexanone                               | ND      | 0.500 | --  | ND      | 2.05 | --  |           | 2.5             |
| Dibromochloromethane                     | ND      | 0.500 | --  | ND      | 4.26 | --  |           | 2.5             |
| 1,2-Dibromoethane                        | ND      | 0.500 | --  | ND      | 3.84 | --  |           | 2.5             |
| Tetrachloroethene                        | ND      | 0.500 | --  | ND      | 3.39 | --  |           | 2.5             |
| Chlorobenzene                            | ND      | 0.500 | --  | ND      | 2.30 | --  |           | 2.5             |
| Ethylbenzene                             | 37.6    | 0.500 | --  | 163     | 2.17 | --  |           | 2.5             |



**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**SAMPLE RESULTS**

Lab ID: L2103206-09 D

Client ID: SV-15

Sample Location: STATEN ISLAND

Date Collected: 01/21/21 09:41

Date Received: 01/21/21

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | 126     | 1.00  | --  | 547     | 4.34 | --  |           | 2.5             |
| Bromoform                                | ND      | 0.500 | --  | ND      | 5.17 | --  |           | 2.5             |
| Styrene                                  | ND      | 0.500 | --  | ND      | 2.13 | --  |           | 2.5             |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.500 | --  | ND      | 3.43 | --  |           | 2.5             |
| o-Xylene                                 | 34.6    | 0.500 | --  | 150     | 2.17 | --  |           | 2.5             |
| 4-Ethyltoluene                           | 12.2    | 0.500 | --  | 60.0    | 2.46 | --  |           | 2.5             |
| 1,3,5-Trimethylbenzene                   | 5.09    | 0.500 | --  | 25.0    | 2.46 | --  |           | 2.5             |
| 1,2,4-Trimethylbenzene                   | 20.0    | 0.500 | --  | 98.3    | 2.46 | --  |           | 2.5             |
| Benzyl chloride                          | ND      | 0.500 | --  | ND      | 2.59 | --  |           | 2.5             |
| 1,3-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,4-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,2-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,2,4-Trichlorobenzene                   | ND      | 0.500 | --  | ND      | 3.71 | --  |           | 2.5             |
| Hexachlorobutadiene                      | ND      | 0.500 | --  | ND      | 5.33 | --  |           | 2.5             |

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



Project Name: LIBERTY TOWERS

Lab Number: L2103206

Project Number: LIBERTY TOWERS

Report Date: 01/27/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/26/21 15:14

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1458850-4 |         |       |     |         |       |     |           |                 |
| 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: LIBERTY TOWERS

Lab Number: L2103206

Project Number: LIBERTY TOWERS

Report Date: 01/27/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/26/21 15:14

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1458850-4 |         |       |     |         |       |     |           |                 |
| 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: LIBERTY TOWERS

Lab Number: L2103206

Project Number: LIBERTY TOWERS

Report Date: 01/27/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/26/21 15:14

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1458850-4 |         |       |     |         |       |     |           |                 |
| 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:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206

**Report Date:** 01/27/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1458850-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 94               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 76               |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 84               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 76               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 79               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 78               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 81               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 69               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 86               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 79               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 112              |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 77               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 99               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 88               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 100              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 98               |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 91               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 107              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 92               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 100              |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 104              |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 97               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 98               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Lab Number: L2103206

Report Date: 01/27/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1458850-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 91               |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 104              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 112              |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 89               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 111              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 92               |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 116              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 91               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 96               |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 101              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 101              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 96               |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 96               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 103              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 100              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 92               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 100              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 87               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 98               |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 105              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 98               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206

**Report Date:** 01/27/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1458850-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 99               |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 95               |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 98               |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 108              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 101              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 99               |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 101              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 109              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 108              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 114              |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 113              |      | -                 |      | 70-130              | -   |      |               |

Project Name: LIBERTY TOWERS

Project Number: LIBERTY TOWERS

Serial\_No:01272113:04  
Lab Number: L2103206

Report Date: 01/27/21

### Canister and Flow Controller Information

| Samplenum   | Client ID | Media ID | Media Type | Date Prepared | Bottle Order | Cleaning Batch ID | Can Leak Check | Initial Pressure (in. Hg) | Pressure on Receipt (in. Hg) | Flow Controller Leak Chk | Flow Out mL/min | Flow In mL/min | % RPD |
|-------------|-----------|----------|------------|---------------|--------------|-------------------|----------------|---------------------------|------------------------------|--------------------------|-----------------|----------------|-------|
| L2103206-01 | SV-7      | 0856     | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.6            | 18.2           | 2     |
| L2103206-01 | SV-7      | 2739     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -4.3                         | -                        | -               | -              | -     |
| L2103206-02 | SV-8      | 01261    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.5            | 18.1           | 2     |
| L2103206-02 | SV-8      | 2878     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -4.3                         | -                        | -               | -              | -     |
| L2103206-03 | SV-9      | 01245    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 19.0            | 18.5           | 3     |
| L2103206-03 | SV-9      | 111      | 2.7L Can   | 01/21/21      | 340771       | L2056948-06       | Pass           | -29.2                     | -3.8                         | -                        | -               | -              | -     |
| L2103206-04 | SV-10     | 01263    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.9            | 18.5           | 2     |
| L2103206-04 | SV-10     | 2243     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -3.6                         | -                        | -               | -              | -     |
| L2103206-05 | SV-11     | 01335    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.7            | 18.3           | 2     |
| L2103206-05 | SV-11     | 2990     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -3.8                         | -                        | -               | -              | -     |
| L2103206-06 | SV-12     | 0515     | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.7            | 18.1           | 3     |
| L2103206-06 | SV-12     | 2250     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -3.9                         | -                        | -               | -              | -     |
| L2103206-07 | SV-13     | 01144    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.7            | 18.4           | 2     |
| L2103206-07 | SV-13     | 2344     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -3.4                         | -                        | -               | -              | -     |
| L2103206-08 | SV-14     | 0507     | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.4            | 18.3           | 1     |

**Project Name:** LIBERTY TOWERS

**Project Number:** LIBERTY TOWERS

Serial\_No:01272113:04  
**Lab Number:** L2103206

**Report Date:** 01/27/21

### Canister and Flow Controller Information

| Samplenum   | Client ID | Media ID | Media Type | Date Prepared | Bottle Order | Cleaning Batch ID | Can Leak Check | Initial Pressure (in. Hg) | Pressure on Receipt (in. Hg) | Flow Controller Leak Chk | Flow Out mL/min | Flow In mL/min | % RPD |
|-------------|-----------|----------|------------|---------------|--------------|-------------------|----------------|---------------------------|------------------------------|--------------------------|-----------------|----------------|-------|
| L2103206-08 | SV-14     | 2871     | 2.7L Can   | 01/21/21      | 340771       | L2101412-01       | Pass           | -29.2                     | -4.6                         | -                        | -               | -              | -     |
| L2103206-09 | SV-15     | 01340    | SV20       | 01/21/21      | 340771       |                   | -              | -                         | -                            | Pass                     | 18.1            | 18.2           | 1     |
| L2103206-09 | SV-15     | 2219     | 2.7L Can   | 01/21/21      | 340771       | L2056948-06       | Pass           | -29.2                     | -3.8                         | -                        | -               | -              | -     |

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

**Lab Number:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 12/21/20 21:27  
**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:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**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:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**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:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**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**Lab Number:** L2056948**Project Number:** CANISTER QC BAT**Report Date:** 01/27/21**Air Canister Certification Results**

Lab ID: L2056948-06

Date Collected: 12/21/20 09:00

Client ID: CAN 2303 SHELF 4

Date Received: 12/21/20

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

| Results                          | Qualifier | Units | RDL | Dilution Factor |
|----------------------------------|-----------|-------|-----|-----------------|
| Tentatively Identified Compounds |           |       |     |                 |

No Tentatively Identified Compounds

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 84         |           | 60-140              |
| Bromochloromethane  | 86         |           | 60-140              |
| chlorobenzene-d5    | 87         |           | 60-140              |

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

**Lab Number:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 12/21/20 21:27  
**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:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**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               |
| 1,1,1,2,2-Tetrachloroethane                     | ND      | 0.020 | --  | ND      | 0.137 | --  |           | 1               |
| o-Xylene                                        | ND      | 0.020 | --  | ND      | 0.087 | --  |           | 1               |
| Isopropylbenzene                                | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 4-Ethyltoluene                                  | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| 1,3,5-Trimethybenzene                           | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                          | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| Benzyl chloride                                 | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                             | ND      | 0.020 | --  | ND      | 0.120 | --  |           | 1               |
| 1,4-Dichlorobenzene                             | ND      | 0.020 | --  | ND      | 0.120 | --  |           | 1               |



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

**Lab Number:** L2056948  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2056948-06  
**Client ID:** CAN 2303 SHELF 4  
**Sample Location:**

**Date Collected:** 12/21/20 09:00  
**Date Received:** 12/21/20  
**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 | 85         |           | 60-140              |
| bromochloromethane  | 85         |           | 60-140              |
| chlorobenzene-d5    | 89         |           | 60-140              |

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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 01/15/21 16:58  
**Analyst:** TS

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Chlorodifluoromethane                    | ND      | 0.200 | --  | ND      | 0.707 | --  |           | 1               |
| Propylene                                | ND      | 0.500 | --  | ND      | 0.861 | --  |           | 1               |
| Propane                                  | ND      | 0.500 | --  | ND      | 0.902 | --  |           | 1               |
| Dichlorodifluoromethane                  | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                            | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Methanol                                 | ND      | 5.00  | --  | ND      | 6.55  | --  |           | 1               |
| Vinyl chloride                           | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                            | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| 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               |
| Tertiary butyl Alcohol                   | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |





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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Methylene chloride                       | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                          | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                         | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                 | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                  | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Vinyl acetate                            | ND      | 1.00  | --  | ND      | 3.52  | --  |           | 1               |
| 2-Butanone                               | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| Xylenes, total                           | ND      | 0.600 | --  | ND      | 0.869 | --  |           | 1               |
| cis-1,2-Dichloroethene                   | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 2,2-Dichloropropane                      | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| Diisopropyl ether                        | ND      | 0.200 | --  | ND      | 0.836 | --  |           | 1               |
| tert-Butyl Ethyl Ether                   | ND      | 0.200 | --  | ND      | 0.836 | --  |           | 1               |
| 1,2-Dichloroethene (total)               | ND      | 1.00  | --  | ND      | 1.00  | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| 1,1-Dichloropropene                      | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| Benzene                                  | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| tert-Amyl Methyl Ether                   | ND      | 0.200 | --  | ND      | 0.836 | --  |           | 1               |
| Dibromomethane                           | ND      | 0.200 | --  | ND      | 1.42  | --  |           | 1               |



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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| 1,2-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               |
| o-Xylene                                 | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |



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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| 1,2,3-Trichloropropane                   | ND      | 0.200 | --  | ND      | 1.21  | --  |           | 1               |
| Nonane                                   | ND      | 0.200 | --  | ND      | 1.05  | --  |           | 1               |
| Isopropylbenzene                         | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Bromobenzene                             | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 2-Chlorotoluene                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| n-Propylbenzene                          | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 4-Chlorotoluene                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 4-Ethyltoluene                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| tert-Butylbenzene                        | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Decane                                   | ND      | 0.200 | --  | ND      | 1.16  | --  |           | 1               |
| Benzyl chloride                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| sec-Butylbenzene                         | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| p-Isopropyltoluene                       | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| 1,2-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| n-Butylbenzene                           | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| 1,2-Dibromo-3-chloropropane              | ND      | 0.200 | --  | ND      | 1.93  | --  |           | 1               |
| Undecane                                 | ND      | 0.200 | --  | ND      | 1.28  | --  |           | 1               |
| Dodecane                                 | ND      | 0.200 | --  | ND      | 1.39  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                   | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Naphthalene                              | ND      | 0.200 | --  | ND      | 1.05  | --  |           | 1               |
| 1,2,3-Trichlorobenzene                   | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                      | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L2101412**Project Number:** CANISTER QC BAT**Report Date:** 01/27/21**Air Canister Certification Results**

Lab ID: L2101412-01

Date Collected: 01/11/21 16:00

Client ID: CAN 1728 SHELF 16

Date Received: 01/12/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

| Results                          | Qualifier | Units | RDL | Dilution Factor |
|----------------------------------|-----------|-------|-----|-----------------|
| Tentatively Identified Compounds |           |       |     |                 |

No Tentatively Identified Compounds

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 99         |           | 60-140              |
| Bromochloromethane  | 98         |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |

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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 01/15/21 16:58  
**Analyst:** TS

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air by SIM - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                         | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                   | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                       | ND      | 0.050 | --  | ND      | 0.349 | --  |           | 1               |
| Vinyl chloride                                  | ND      | 0.020 | --  | ND      | 0.051 | --  |           | 1               |
| 1,3-Butadiene                                   | ND      | 0.020 | --  | ND      | 0.044 | --  |           | 1               |
| Bromomethane                                    | ND      | 0.020 | --  | ND      | 0.078 | --  |           | 1               |
| Chloroethane                                    | ND      | 0.100 | --  | ND      | 0.264 | --  |           | 1               |
| Acrolein                                        | ND      | 0.050 | --  | ND      | 0.115 | --  |           | 1               |
| Acetone                                         | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                          | ND      | 0.050 | --  | ND      | 0.281 | --  |           | 1               |
| Acrylonitrile                                   | ND      | 0.500 | --  | ND      | 1.09  | --  |           | 1               |
| 1,1-Dichloroethene                              | ND      | 0.020 | --  | ND      | 0.079 | --  |           | 1               |
| Methylene chloride                              | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| Freon-113                                       | ND      | 0.050 | --  | ND      | 0.383 | --  |           | 1               |
| trans-1,2-Dichloroethene                        | ND      | 0.020 | --  | ND      | 0.079 | --  |           | 1               |
| 1,1-Dichloroethane                              | ND      | 0.020 | --  | ND      | 0.081 | --  |           | 1               |
| Methyl tert butyl ether                         | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                      | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                          | ND      | 0.020 | --  | ND      | 0.079 | --  |           | 1               |
| Chloroform                                      | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| 1,2-Dichloroethane                              | ND      | 0.020 | --  | ND      | 0.081 | --  |           | 1               |
| 1,1,1-Trichloroethane                           | ND      | 0.020 | --  | ND      | 0.109 | --  |           | 1               |
| Benzene                                         | ND      | 0.100 | --  | ND      | 0.319 | --  |           | 1               |
| Carbon tetrachloride                            | ND      | 0.020 | --  | ND      | 0.126 | --  |           | 1               |



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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air by SIM - Mansfield Lab |         |       |     |         |       |     |           |                 |
| 1,2-Dichloropropane                             | ND      | 0.020 | --  | ND      | 0.092 | --  |           | 1               |
| Bromodichloromethane                            | ND      | 0.020 | --  | ND      | 0.134 | --  |           | 1               |
| 1,4-Dioxane                                     | ND      | 0.100 | --  | ND      | 0.360 | --  |           | 1               |
| Trichloroethene                                 | ND      | 0.020 | --  | ND      | 0.107 | --  |           | 1               |
| cis-1,3-Dichloropropene                         | ND      | 0.020 | --  | ND      | 0.091 | --  |           | 1               |
| 4-Methyl-2-pentanone                            | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                       | ND      | 0.020 | --  | ND      | 0.091 | --  |           | 1               |
| 1,1,2-Trichloroethane                           | ND      | 0.020 | --  | ND      | 0.109 | --  |           | 1               |
| Toluene                                         | ND      | 0.050 | --  | ND      | 0.188 | --  |           | 1               |
| Dibromochloromethane                            | ND      | 0.020 | --  | ND      | 0.170 | --  |           | 1               |
| 1,2-Dibromoethane                               | ND      | 0.020 | --  | ND      | 0.154 | --  |           | 1               |
| Tetrachloroethene                               | ND      | 0.020 | --  | ND      | 0.136 | --  |           | 1               |
| 1,1,1,2-Tetrachloroethane                       | ND      | 0.020 | --  | ND      | 0.137 | --  |           | 1               |
| Chlorobenzene                                   | ND      | 0.100 | --  | ND      | 0.461 | --  |           | 1               |
| Ethylbenzene                                    | ND      | 0.020 | --  | ND      | 0.087 | --  |           | 1               |
| p/m-Xylene                                      | ND      | 0.040 | --  | ND      | 0.174 | --  |           | 1               |
| Bromoform                                       | ND      | 0.020 | --  | ND      | 0.207 | --  |           | 1               |
| Styrene                                         | ND      | 0.020 | --  | ND      | 0.085 | --  |           | 1               |
| 1,1,1,2,2-Tetrachloroethane                     | ND      | 0.020 | --  | ND      | 0.137 | --  |           | 1               |
| o-Xylene                                        | ND      | 0.020 | --  | ND      | 0.087 | --  |           | 1               |
| Isopropylbenzene                                | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 4-Ethyltoluene                                  | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| 1,3,5-Trimethybenzene                           | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                          | ND      | 0.020 | --  | ND      | 0.098 | --  |           | 1               |
| Benzyl chloride                                 | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                             | ND      | 0.020 | --  | ND      | 0.120 | --  |           | 1               |
| 1,4-Dichlorobenzene                             | ND      | 0.020 | --  | ND      | 0.120 | --  |           | 1               |



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

**Lab Number:** L2101412  
**Report Date:** 01/27/21

### Air Canister Certification Results

**Lab ID:** L2101412-01  
**Client ID:** CAN 1728 SHELF 16  
**Sample Location:**

**Date Collected:** 01/11/21 16:00  
**Date Received:** 01/12/21  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air by SIM - Mansfield Lab |         |       |     |         |       |     |           |                 |
| sec-Butylbenzene                                | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| p-Isopropyltoluene                              | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| 1,2-Dichlorobenzene                             | ND      | 0.020 | --  | ND      | 0.120 | --  |           | 1               |
| n-Butylbenzene                                  | ND      | 0.200 | --  | ND      | 1.10  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                          | ND      | 0.050 | --  | ND      | 0.371 | --  |           | 1               |
| Naphthalene                                     | ND      | 0.050 | --  | ND      | 0.262 | --  |           | 1               |
| 1,2,3-Trichlorobenzene                          | ND      | 0.050 | --  | ND      | 0.371 | --  |           | 1               |
| Hexachlorobutadiene                             | ND      | 0.050 | --  | ND      | 0.533 | --  |           | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-difluorobenzene | 99         |           | 60-140              |
| bromochloromethane  | 100        |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |

**Project Name:** LIBERTY TOWERS**Lab Number:** L2103206**Project Number:** LIBERTY TOWERS**Report Date:** 01/27/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

NA Present/Intact

**Container Information**

| <b>Container ID</b> | <b>Container Type</b> | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|-----------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2103206-01A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-02A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-03A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-04A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-05A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-06A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-07A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-08A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2103206-09A        | Canister - 2.7 Liter  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

## GLOSSARY

### Acronyms

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

Report Format: Data Usability Report



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

#### Footnotes

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

#### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

**Report Format:** Data Usability Report



**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

**Data Qualifiers**

the identification is based on a mass spectral library search.

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

**Project Name:** LIBERTY TOWERS  
**Project Number:** LIBERTY TOWERS

**Lab Number:** L2103206  
**Report Date:** 01/27/21

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



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

Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

**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, NO<sub>2</sub>, NO<sub>3</sub>.**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: Tenen EnvironmentalAddress: 121 West 27th StreetSuite 703, NY, NY 10001Phone: 646-606-2332Fax: aplatt@tenen-env.comEmail: acarroll@tenen-env.com☐ These samples have been previously analyzed by AlphaOther Project Specific Requirements/Comments: Cat B deliverablesProject-Specific Target Compound List: ☐

## Project Information

Project Name: Liberty TowersProject Location: Staten IslandProject #: Liberty TowersProject Manager: A. Carroll

ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Date Rec'd in Lab: 11/22/21

## Report Information - Data Deliverables

☐ FAX  
☒ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☒ Additional Deliverables:Cat B deliverables

Report to: (if different than Project Manager)

ALPHA Job #: L2103206

## Billing Information

☒ Same as Client info PO #:

## Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

## ANALYSIS

TO-15  
TO-15 SIM  
APH  
Fixed Gases  
Sulfides & Mercaptans by TO-15

## All Columns Below Must Be Filled Out

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID | COLLECTION |            |          |                |              |    | Sample Matrix* | Sampler's Initials | Can Size | ID Can | ID - Flow Controller | TO-15 | TO-15 SIM | APH | Fixed Gases | Sulfides | Sample Comments (i.e. PID) |
|--------------------------------|-----------|------------|------------|----------|----------------|--------------|----|----------------|--------------------|----------|--------|----------------------|-------|-----------|-----|-------------|----------|----------------------------|
|                                |           | End Date   | Start Time | End Time | Initial Vacuum | Final Vacuum |    |                |                    |          |        |                      |       |           |     |             |          |                            |
| 03206-01                       | SV-7      | 1/21/21    | 7:11       | 9:09     | -30.58         | -7.43        | SV | AP             | 2.7                | 2739     | 0856   | X                    |       |           |     |             |          | PID = 11.7 ppm             |
| 02                             | SV-8      |            | 7:16       | 9:17     | -30.66         | -7.26        |    |                |                    | 2878     | 0126   | X                    |       |           |     |             |          | PID = 13.1 ppm             |
| 03                             | SV-9      |            | 7:53       | 9:51     | -30.65         | -6.12        |    |                |                    | 111      | 0124   | X                    |       |           |     |             |          | PID = 1.1 ppm              |
| 04                             | SV-10     |            | 7:49       | 9:49     | -30.45         | -6.34        |    |                |                    | 2243     | 0126   | X                    |       |           |     |             |          | PID = 5.5 ppm              |
| 05                             | SV-11     |            | 7:26       | 9:26     | -30.58         | -7.03        |    |                |                    | 2990     | 0133   | X                    |       |           |     |             |          | PID = 0 ppm                |
| 06                             | SV-12     |            | 7:31       | 9:30     | -30.60         | -6.93        |    |                |                    | 2250     | 0515   | X                    |       |           |     |             |          | PID = 7.7 ppm              |
| 07                             | SV-13     |            | 7:38       | 9:39     | -30.72         | -6.64        |    |                |                    | 2344     | 0144   | X                    |       |           |     |             |          | PID = 5.5 ppm              |
| 08                             | SV-14     |            | 7:41       | 9:40     | -30.76         | -7.93        |    |                |                    | 2871     | 0507   | X                    |       |           |     |             |          | PID = 4.7 ppm              |
| 09                             | SV-15     |            | 7:43       | 9:41     | -30.36         | -6.67        |    |                |                    | 2219     | 0134   | X                    |       |           |     |             |          | PID = 5.8 ppm              |
|                                |           |            |            |          |                |              |    |                |                    |          |        |                      |       |           |     |             |          |                            |

## \*SAMPLE MATRIX CODES

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

Container Type

Summa

Relinquished By:

Date/Time

Received By:

Date/Time:

A. Platt / Tenen1/21/21 10:25Mellina1/21/21 10:25

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.

# Appendix 2

## Soil Boring Logs



| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                               | SB-8          |
|--------------------------|-------------------|---------------|--------------------------------|----------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                    | 1 of 1        |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                         | Geoprobe      |
| Date: 1/18/2021          |                   |               |                                | Soil Sampling Method:                                                                                    | 5' Macro-core |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                     | N/A           |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                         |               |
| 1                        | 0.0               | 47"           | SB-8<br>(0-2)                  | 0'-5' - FILL, reddish brown to brown, fine clayey SAND, trace gravel and concrete, medium dense, moist   |               |
| 2                        |                   |               |                                |                                                                                                          |               |
| 3                        | 0.0               |               |                                |                                                                                                          |               |
| 4                        |                   |               |                                |                                                                                                          |               |
| 5                        | 0.0               |               |                                |                                                                                                          |               |
| 6                        | 0.0               | 50"           | SB-8<br>(6.5-8.5)              | 5'-8.5' - FILL, reddish brown to brown, fine clayey SAND, trace gravel and concrete, medium dense, moist |               |
| 7                        |                   |               |                                |                                                                                                          |               |
| 8                        | 0.0               |               |                                |                                                                                                          |               |
| 9                        |                   |               |                                |                                                                                                          |               |
| 10                       | 0.0               |               |                                | 8.5'-10' - Weathered Bedrock                                                                             |               |
| 11                       | 0.0               | 60"           |                                | 10'-15' - Weathered Bedrock                                                                              |               |
| 12                       |                   |               |                                |                                                                                                          |               |
| 13                       | 0.0               |               |                                |                                                                                                          |               |
| 14                       |                   |               |                                |                                                                                                          |               |
| 15                       | 0.0               |               |                                |                                                                                                          |               |
| 16                       | 0.0               | 12"           |                                | 15'-16' - Weathered Bedrock<br><br>Bedrock Refusal @ 16 ft-bg, End of Boring                             |               |
| 17                       |                   |               |                                |                                                                                                          |               |
| 18                       |                   |               |                                |                                                                                                          |               |
| 19                       |                   |               |                                |                                                                                                          |               |
| 20                       |                   |               |                                |                                                                                                          |               |
| Notes:                   |                   |               |                                |                                                                                                          |               |
| Legend:                  |                   |               |                                |                                                                                                          |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                          |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                          |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                          |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                          |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                          |               |
| GW - Groundwater         |                   |               |                                |                                                                                                          |               |



| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                | SB-8W         |
|--------------------------|-------------------|---------------|--------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                     | 1 of 1        |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                          | Geoprobe      |
| Date: 1/18/2021          |                   |               |                                | Soil Sampling Method:                                                                                     | 5' Macro-core |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                      | N/A           |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                 | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                          |               |
| 1                        | 0.0               | 46"           |                                | 0'-4.83' - FILL, reddish brown to green, fine clayey SAND, trace gravel and concrete, medium dense, moist |               |
| 2                        |                   |               |                                |                                                                                                           |               |
| 3                        | 0.0               |               |                                |                                                                                                           |               |
| 4                        | 0.0               |               |                                |                                                                                                           |               |
| 5                        |                   |               |                                | -----<br>4.83'-5' - Weathered Bedrock                                                                     |               |
| 6                        | 0.0               | 34"           |                                | 5'-10' - Weathered Bedrock                                                                                |               |
| 7                        |                   |               |                                |                                                                                                           |               |
| 8                        | 0.0               |               |                                |                                                                                                           |               |
| 9                        | 0.0               |               |                                |                                                                                                           |               |
| 10                       |                   |               |                                |                                                                                                           |               |
| 11                       | 0.0               | 24"           |                                | 10'-12' - Weathered Bedrock                                                                               |               |
| 12                       |                   |               |                                | Bedrock Refusal @ 12 ft-bg, End of Boring                                                                 |               |
| 13                       | 0.0               |               |                                |                                                                                                           |               |
| 14                       |                   |               |                                |                                                                                                           |               |
| 15                       |                   |               |                                |                                                                                                           |               |
| Notes:                   |                   |               |                                |                                                                                                           |               |
| Legend:                  |                   |               |                                |                                                                                                           |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                           |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                           |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                           |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                           |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                           |               |
| GW - Groundwater         |                   |               |                                |                                                                                                           |               |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                                   | SB-9          |  |
|--------------------------|-------------------|---------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|--|
|                          |                   |               |                                | Sheet                                                                                                                        | 1 of 1        |  |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                             | Geoprobe      |  |
| Date: 1/18/2021          |                   |               |                                | Soil Sampling Method:                                                                                                        | 5' Macro-core |  |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                                         | N/A           |  |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                                    | AARCO         |  |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                             |               |  |
| 1                        | 0.0               | 48"           | SB-9 (0-2)                     | 0'-5' - FILL, brown to orange, fine to medium poorly graded SAND with clay, trace gravel and concrete, medium dense, moist   |               |  |
| 2                        |                   |               |                                |                                                                                                                              |               |  |
| 3                        | 0.0               |               |                                |                                                                                                                              |               |  |
| 4                        | 0.0               |               |                                |                                                                                                                              |               |  |
| 5                        |                   |               |                                |                                                                                                                              |               |  |
| 6                        | 0.0               | 48"           | SB-9 (6.5-8.5)                 | 5'-8.5' - FILL, brown to orange, fine to medium poorly graded SAND with clay, trace gravel and concrete, medium dense, moist |               |  |
| 7                        |                   |               |                                |                                                                                                                              |               |  |
| 8                        | 0.0               |               |                                | 8.5'-10' - Weathered Bedrock                                                                                                 |               |  |
| 9                        |                   |               |                                |                                                                                                                              |               |  |
| 10                       | 0.0               |               |                                |                                                                                                                              |               |  |
| 11                       | 0.0               | 42"           |                                | 10'-13.5' - Weathered Bedrock<br><br>Bedrock Refusal @ 13.5 ft-bg, End of Boring                                             |               |  |
| 12                       |                   |               |                                |                                                                                                                              |               |  |
| 13                       | 0.0               |               |                                |                                                                                                                              |               |  |
| 14                       |                   |               |                                |                                                                                                                              |               |  |
| 15                       |                   |               |                                |                                                                                                                              |               |  |
| Notes:                   |                   |               |                                |                                                                                                                              |               |  |
| Legend:                  |                   |               |                                |                                                                                                                              |               |  |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                              |               |  |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                              |               |  |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                              |               |  |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                              |               |  |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                              |               |  |
| GW - Groundwater         |                   |               |                                |                                                                                                                              |               |  |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                                                  | SB-10         |
|--------------------------|-------------------|---------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                                                       | 1 of 1        |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                                            | Geoprobe      |
| Date: 1/18/2021          |                   |               |                                | Soil Sampling Method:                                                                                                                       | 5' Macro-core |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                                                        | N/A           |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                                                   | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                                            |               |
| 1                        | 0.0               | 37"           | SB-10 (0-2)                    | 0'-5' - FILL, brown to red, fine to medium silty SAND to clayey SAND, trace gravel, brick, concrete, glass, and wood, medium dense, moist   |               |
| 2                        |                   |               |                                |                                                                                                                                             |               |
| 3                        | 0.0               |               |                                |                                                                                                                                             |               |
| 4                        |                   |               |                                |                                                                                                                                             |               |
| 5                        | 0.0               |               |                                |                                                                                                                                             |               |
| 6                        | 0.0               | 33"           | SB-10 (7-9)                    | 5'-6.5' - FILL, brown to red, fine to medium silty SAND to clayey SAND, trace gravel, brick, concrete, glass, and wood, medium dense, moist |               |
| 7                        |                   |               |                                | 6.5'-9' - Orange brown, fine to medium poorly graded SAND, medium dense, moist                                                              |               |
| 8                        | 0.0               |               |                                |                                                                                                                                             |               |
| 9                        |                   |               |                                |                                                                                                                                             |               |
| 10                       | 0.0               |               |                                | 9'-10' - Weathered Bedrock                                                                                                                  |               |
| 11                       | 0.0               | 12"           |                                | 10'-13.5' - Weathered Bedrock                                                                                                               |               |
| 12                       |                   |               |                                | Bedrock Refusal @ 13.5 ft-bg, End of Boring                                                                                                 |               |
| 13                       | 0.0               |               |                                |                                                                                                                                             |               |
| 14                       |                   |               |                                |                                                                                                                                             |               |
| 15                       |                   |               |                                |                                                                                                                                             |               |
| Notes:                   |                   |               |                                |                                                                                                                                             |               |
| Legend:                  |                   |               |                                |                                                                                                                                             |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                                             |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                                             |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                                             |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                                             |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                                             |               |
| GW - Groundwater         |                   |               |                                |                                                                                                                                             |               |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                        | SB-11      |
|--------------------------|-------------------|---------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------|------------|
|                          |                   |               |                                | Sheet                                                                                                             | 1 of 1     |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                  | Hand Auger |
| Date: 1/19/2021          |                   |               |                                | Soil Sampling Method:                                                                                             | Hand Auger |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                              | N/A        |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                         | AARCO      |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                  |            |
| 1                        | 0.0               | 60"           | SB-11<br>(0-2)                 | 0'-5' - FILL, brown, fine to medium silty SAND, trace gravel and brick, medium dense, moist                       |            |
| 2                        |                   |               |                                |                                                                                                                   |            |
| 3                        | 0.0               |               |                                |                                                                                                                   |            |
| 4                        | 0.0               |               |                                |                                                                                                                   |            |
| 5                        |                   |               |                                |                                                                                                                   |            |
| 6                        | 0.3               | 60"           | SB-11<br>(5-7)                 | 5'-7' - Brown, fine clayey SAND, trace gravel, medium dense, moist<br><br>Weathered Rock @ 7 ft-bg, End of Boring |            |
| 7                        |                   |               |                                |                                                                                                                   |            |
| 8                        | 0.0               |               |                                |                                                                                                                   |            |
| 9                        |                   |               |                                |                                                                                                                   |            |
| 10                       |                   |               |                                |                                                                                                                   |            |
| Notes:                   |                   |               |                                |                                                                                                                   |            |
| Legend:                  |                   |               |                                |                                                                                                                   |            |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                   |            |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                   |            |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                   |            |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                   |            |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                   |            |
| GW - Groundwater         |                   |               |                                |                                                                                                                   |            |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                       | SB-12                                     |
|--------------------------|-------------------|---------------|--------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|
|                          |                   |               |                                | Sheet                                                                                            | 1 of 1                                    |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                 | Hand Auger                                |
| Date: 1/19/2021          |                   |               |                                | Soil Sampling Method:                                                                            | Hand Auger                                |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                             | N/A                                       |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                        | AARCO                                     |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                 |                                           |
| 1                        | 0.0               | 60"           | SB-12 (0-2)                    | 0'-3' - FILL, dark brown, fine to medium silty SAND, trace gravel and brick, medium dense, moist |                                           |
| 2                        |                   |               |                                | 3'-5' - Light brown, fine silty SAND, medium dense, moist                                        |                                           |
| 3                        | 0.0               |               |                                |                                                                                                  |                                           |
| 4                        |                   |               |                                |                                                                                                  |                                           |
| 5                        | 0.0               |               |                                |                                                                                                  |                                           |
| 6                        | 0.0               | 60"           |                                | 5'-8' - Brown, fine sandy SILT, soft, moist                                                      |                                           |
| 7                        |                   |               |                                | 8'-8.5' - Brown, fine to medium poorly graded SAND, medium dense, moist                          |                                           |
| 8                        | 0.0               |               | SB-12 (6.5-8.5)                |                                                                                                  |                                           |
| 9                        |                   |               |                                |                                                                                                  |                                           |
| 10                       |                   |               |                                |                                                                                                  | Weathered Rock @ 8.5 ft-bg, End of Boring |
| Notes:                   |                   |               |                                |                                                                                                  |                                           |
| Legend:                  |                   |               |                                |                                                                                                  |                                           |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                  |                                           |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                  |                                           |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                  |                                           |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                  |                                           |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                  |                                           |
| GW - Groundwater         |                   |               |                                |                                                                                                  |                                           |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                                                | SB-13         |
|--------------------------|-------------------|---------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                                                     | 1 of 1        |
| Site:                    |                   | River North   |                                | Drilling Method:                                                                                                                          | Geoprobe      |
| Date:                    |                   | 1/18/2021     |                                | Soil Sampling Method:                                                                                                                     | 5' Macro-core |
| Weather:                 |                   | Sunny, 30s    |                                | DTW:                                                                                                                                      | N/A           |
| Observer:                |                   | A. Platt      |                                | Driller :                                                                                                                                 | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                                          |               |
| 1                        | 0.1               | 48"           | SB-13<br>(0-2)                 | 0'-5' - FILL, brown to black, fine to medium silty SAND, trace gravel, concrete, brick, and wood, medium dense, moist                     |               |
| 2                        |                   |               |                                |                                                                                                                                           |               |
| 3                        | 0.0               |               |                                |                                                                                                                                           |               |
| 4                        |                   |               |                                |                                                                                                                                           |               |
| 5                        | 0.0               |               |                                |                                                                                                                                           |               |
| 6                        | 0.0               | 38"           |                                | 5'-10' - FILL, brown to black, fine to medium silty SAND, trace gravel, concrete, brick, and wood, medium dense, moist                    |               |
| 7                        |                   |               |                                |                                                                                                                                           |               |
| 8                        | 0.0               |               |                                |                                                                                                                                           |               |
| 9                        |                   |               |                                |                                                                                                                                           |               |
| 10                       | 0.0               |               |                                |                                                                                                                                           |               |
| 11                       | 0.0               | 60"           |                                | 10'-15' - FILL, brown to black, fine to medium silty SAND, trace gravel, concrete, brick, and wood, medium dense, moist, clayey at bottom |               |
| 12                       |                   |               |                                |                                                                                                                                           |               |
| 13                       | 0.0               |               |                                |                                                                                                                                           |               |
| 14                       |                   |               |                                |                                                                                                                                           |               |
| 15                       | 0.0               |               |                                |                                                                                                                                           |               |
| 16                       | 0.0               | 44"           | SB-13<br>(17.5-19.5)           | 15'-19.5' - Brown to reddish brown, fine to coarse poorly graded SAND, trace gravel throughout, clayey bottom foot                        |               |
| 17                       |                   |               |                                |                                                                                                                                           |               |
| 18                       | 0.0               |               |                                |                                                                                                                                           |               |
| 19                       |                   |               |                                |                                                                                                                                           |               |
| 20                       | 0.0               |               |                                |                                                                                                                                           |               |
| 21                       | 0.0               | 60"           |                                | 19.5'-20' - Weathered Bedrock                                                                                                             |               |
| 22                       |                   |               |                                | 20'-25' - Weathered Bedrock                                                                                                               |               |
| 23                       | 0.0               |               |                                |                                                                                                                                           |               |
| 24                       |                   |               |                                |                                                                                                                                           |               |
| 25                       | 0.0               |               |                                |                                                                                                                                           |               |
| 26                       | 0.0               | 16"           |                                | 25'-30' - Weathered Bedrock                                                                                                               |               |
| 27                       |                   |               |                                | End of Boring @ 30 ft-bg                                                                                                                  |               |
| 28                       | 0.0               |               |                                |                                                                                                                                           |               |
| 29                       |                   |               |                                |                                                                                                                                           |               |
| 30                       | 0.0               |               |                                |                                                                                                                                           |               |
| Notes:                   |                   |               |                                |                                                                                                                                           |               |
| Legend:                  |                   |               |                                |                                                                                                                                           |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                                           |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                                           |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                                           |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                                           |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                                           |               |
| GW - Groundwater         |                   |               |                                |                                                                                                                                           |               |

| TENEN ENVIRONMENTAL                                               |                   |               |                                | Boring No.                                                                                                               | SB-14         |
|-------------------------------------------------------------------|-------------------|---------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------|
|                                                                   |                   |               |                                | Sheet                                                                                                                    | 1 of 1        |
| Site: River North                                                 |                   |               |                                | Drilling Method:                                                                                                         | Geoprobe      |
| Date: 1/19/2021                                                   |                   |               |                                | Soil Sampling Method:                                                                                                    | 5' Macro-core |
| Weather: Sunny, 30s                                               |                   |               |                                | DTW:                                                                                                                     | N/A           |
| Observer: A. Platt                                                |                   |               |                                | Driller :                                                                                                                | AARCO         |
| Depth (feet)                                                      | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                         |               |
| 1                                                                 | 0.0               | 53"           | SB-14<br>(0-2)                 | 0'-4' - FILL, brown to black, fine to medium poorly graded SAND with clay, gravel, brick, and glass, medium dense, moist |               |
| 2                                                                 |                   |               |                                |                                                                                                                          |               |
| 3                                                                 | 0.0               |               |                                |                                                                                                                          |               |
| 4                                                                 |                   |               |                                |                                                                                                                          |               |
| 5                                                                 | 0.0               |               |                                |                                                                                                                          |               |
| -----                                                             |                   |               |                                |                                                                                                                          |               |
| 4'-5' - Brown, fine sandy SILT, soft, moist                       |                   |               |                                |                                                                                                                          |               |
| 6                                                                 | 0.0               | 50"           |                                | 5'-8.5' - Brown, fine sandy SILT, soft, moist                                                                            |               |
| 7                                                                 |                   |               |                                |                                                                                                                          |               |
| 8                                                                 | 0.0               |               |                                |                                                                                                                          |               |
| 9                                                                 |                   |               |                                |                                                                                                                          |               |
| 10                                                                | 0.0               |               |                                |                                                                                                                          |               |
| -----                                                             |                   |               |                                |                                                                                                                          |               |
| 8.5'-10' - Tan to brown, fine poorly graded SAND, dense, moist    |                   |               |                                |                                                                                                                          |               |
| 11                                                                | 0.0               | 46"           |                                | 10'-15' - Tan to brown, fine poorly graded SAND, dense, moist                                                            |               |
| 12                                                                |                   |               |                                |                                                                                                                          |               |
| 13                                                                | 0.0               |               |                                |                                                                                                                          |               |
| 14                                                                |                   |               |                                |                                                                                                                          |               |
| 15                                                                | 0.0               |               |                                |                                                                                                                          |               |
| -----                                                             |                   |               |                                |                                                                                                                          |               |
| 15'-17.167' - Tan to brown, fine poorly graded SAND, dense, moist |                   |               |                                |                                                                                                                          |               |
| 16                                                                | 0.0               | 60"           | SB-14<br>(17.5-19.5)           | 17.167'-19.5' - Reddish brown, fine CLAY, some sand, firm, moist                                                         |               |
| 17                                                                |                   |               |                                |                                                                                                                          |               |
| 18                                                                | 0.0               |               |                                |                                                                                                                          |               |
| 19                                                                |                   |               |                                |                                                                                                                          |               |
| 20                                                                | 0.0               |               |                                |                                                                                                                          |               |
| -----                                                             |                   |               |                                |                                                                                                                          |               |
| 19.5'-20' - Weathered Bedrock                                     |                   |               |                                |                                                                                                                          |               |
| Bedrock Refusal @ 20 ft-bq, End of Boring                         |                   |               |                                |                                                                                                                          |               |
| Notes:                                                            |                   |               |                                |                                                                                                                          |               |
| Legend:                                                           |                   |               |                                |                                                                                                                          |               |
| DTW - Depth to Water                                              |                   |               | PID - Photoionization Detector |                                                                                                                          |               |
| EOB - End of Boring                                               |                   |               | SAA - Same as Above            |                                                                                                                          |               |
| ft-bq - Feet Below Grade                                          |                   |               | NR - Not Recorded              |                                                                                                                          |               |
| SM - Silty Sand                                                   |                   |               | SP - Poorly Graded Sand        |                                                                                                                          |               |
| SW - Well-graded Sand                                             |                   |               | GP - Poorly Graded Gravel      |                                                                                                                          |               |
| GW - Groundwater                                                  |                   |               |                                |                                                                                                                          |               |

| TENEN ENVIRONMENTAL                       |                   |               |                                | Boring No.                                                                                                          | SB-15         |
|-------------------------------------------|-------------------|---------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------|
|                                           |                   |               |                                | Sheet                                                                                                               | 1 of 1        |
| Site:                                     |                   | River North   |                                | Drilling Method:                                                                                                    | Geoprobe      |
| Date:                                     |                   | 1/19/2021     |                                | Soil Sampling Method:                                                                                               | 5' Macro-core |
| Weather:                                  |                   | Sunny, 30s    |                                | DTW:                                                                                                                | N/A           |
| Observer:                                 |                   | A. Platt      |                                | Driller :                                                                                                           | AARCO         |
| Depth (feet)                              | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                    |               |
| 1                                         | 0.0               | 36"           | SB-15<br>(0-2)                 | 0'-5' - FILL, white to brown, fine to medium silty SAND, with gravel and concrete throughout, medium dense, moist   |               |
| 2                                         |                   |               |                                |                                                                                                                     |               |
| 3                                         | 0.0               |               |                                |                                                                                                                     |               |
| 4                                         |                   |               |                                |                                                                                                                     |               |
| 5                                         | 0.0               |               |                                |                                                                                                                     |               |
| 6                                         | 0.0               | 32"           |                                | 5'-8.5' - FILL, white to brown, fine to medium silty SAND, with gravel and concrete throughout, medium dense, moist |               |
| 7                                         |                   |               |                                |                                                                                                                     |               |
| 8                                         | 0.0               |               |                                | 8.5'-10' - Reddish brown, fine sandy SILT, soft, moist                                                              |               |
| 9                                         |                   |               |                                |                                                                                                                     |               |
| 10                                        | 0.0               |               |                                |                                                                                                                     |               |
| 11                                        | 0.0               | 33"           |                                | 10'-12.5' - Reddish brown, fine sandy SILT, soft, moist                                                             |               |
| 12                                        |                   |               |                                |                                                                                                                     |               |
| 13                                        | 0.0               |               |                                | 12.5'-15' - Tan to brown, fine poorly graded SAND, dense, moist                                                     |               |
| 14                                        |                   |               |                                |                                                                                                                     |               |
| 15                                        | 0.0               |               |                                |                                                                                                                     |               |
| 16                                        | 0.0               | 20"           | SB-15<br>(14.5-16.5)           | 15'-16.5' - Reddish brown, fine CLAY, some sand, firm, moist                                                        |               |
| 17                                        |                   |               |                                |                                                                                                                     |               |
| 18                                        | 0.0               |               |                                | 16.5'-17' - Weathered Bedrock                                                                                       |               |
| 19                                        |                   |               |                                |                                                                                                                     |               |
| 20                                        |                   |               |                                |                                                                                                                     |               |
| Bedrock Refusal @ 17 ft-bg, End of Boring |                   |               |                                |                                                                                                                     |               |
| Notes:                                    |                   |               |                                |                                                                                                                     |               |
| Legend:                                   |                   |               |                                |                                                                                                                     |               |
| DTW - Depth to Water                      |                   |               | PID - Photoionization Detector |                                                                                                                     |               |
| EOB - End of Boring                       |                   |               | SAA - Same as Above            |                                                                                                                     |               |
| ft-bg - Feet Below Grade                  |                   |               | NR - Not Recorded              |                                                                                                                     |               |
| SM - Silty Sand                           |                   |               | SP - Poorly Graded Sand        |                                                                                                                     |               |
| SW - Well-graded Sand                     |                   |               | GP - Poorly Graded Gravel      |                                                                                                                     |               |
| GW - Groundwater                          |                   |               |                                |                                                                                                                     |               |



| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                               | SB-16         |
|--------------------------|-------------------|---------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                                    | 1 of 1        |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                         | Geoprobe      |
| Date: 1/19/2021          |                   |               |                                | Soil Sampling Method:                                                                                                    | 5' Macro-core |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                                     | N/A           |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                                | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                         |               |
| 1                        | 0.0               | 48"           | SB-16<br>(0-2)                 | 0'-5' - FILL, reddish brown, fine to medium poorly graded SAND with clay, gravel, and some concrete, medium dense, moist |               |
| 2                        |                   |               |                                |                                                                                                                          |               |
| 3                        | 0.0               |               |                                |                                                                                                                          |               |
| 4                        | 0.0               |               |                                |                                                                                                                          |               |
| 5                        |                   |               |                                |                                                                                                                          |               |
| 6                        | 0.0               | 48"           |                                | 5'-9' - FILL, reddish brown, fine to medium poorly graded SAND with clay, gravel, and some concrete, medium dense, moist |               |
| 7                        |                   |               |                                |                                                                                                                          |               |
| 8                        | 0.0               |               | SB-16<br>(7-9)                 |                                                                                                                          |               |
| 9                        |                   |               |                                |                                                                                                                          |               |
| 10                       | 0.0               |               |                                |                                                                                                                          |               |
|                          |                   |               |                                | 9'-9.33' - Weathered Bedrock                                                                                             |               |
|                          |                   |               |                                | Bedrock Refusal @ 9.33 ft-bg, End of Boring                                                                              |               |
| Notes:                   |                   |               |                                |                                                                                                                          |               |
| Legend:                  |                   |               |                                |                                                                                                                          |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                          |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                          |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                          |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                          |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                          |               |
| GW - Groundwater         |                   |               |                                |                                                                                                                          |               |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                                                      | SB-17         |
|--------------------------|-------------------|---------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                          |                   |               |                                | Sheet                                                                                                                                           | 1 of 1        |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                                                | Geoprobe      |
| Date: 1/19/2021          |                   |               |                                | Soil Sampling Method:                                                                                                                           | 5' Macro-core |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                                                            | N/A           |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                                                       | AARCO         |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                                                |               |
| 1                        | 0.0               | 50"           | SB-17 (0-2)                    | 0'-5' - FILL, reddish brown, fine to medium clayey SAND, trace gravel, concrete, and brick, medium dense, moist                                 |               |
| 2                        |                   |               |                                |                                                                                                                                                 |               |
| 3                        | 0.0               |               |                                |                                                                                                                                                 |               |
| 4                        | 0.0               |               |                                |                                                                                                                                                 |               |
| 5                        |                   |               |                                |                                                                                                                                                 |               |
| 6                        | 0.0               | 39"           |                                | 5'-10' - FILL, reddish brown, fine to medium clayey SAND, trace gravel, concrete, and brick, medium dense, moist                                |               |
| 7                        |                   |               |                                |                                                                                                                                                 |               |
| 8                        | 0.0               |               |                                |                                                                                                                                                 |               |
| 9                        |                   |               |                                |                                                                                                                                                 |               |
| 10                       | 0.0               |               | SB-17 (9-11)                   |                                                                                                                                                 |               |
| 11                       | 0.0               | 44"           |                                | 10'-11' - FILL, reddish brown, fine to medium clayey SAND, trace gravel, concrete, and brick, medium dense, moist, turn to sandy CLAY bottom 2" |               |
| 12                       |                   |               |                                | 11'-13.5' - Weathered Bedrock                                                                                                                   |               |
| 13                       | 0.0               |               |                                | Bedrock Refusal @ 13.5 ft-bg, End of Boring                                                                                                     |               |
| 14                       |                   |               |                                |                                                                                                                                                 |               |
| 15                       |                   |               |                                |                                                                                                                                                 |               |
| Notes:                   |                   |               |                                |                                                                                                                                                 |               |
| Legend:                  |                   |               |                                |                                                                                                                                                 |               |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                                                 |               |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                                                 |               |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                                                 |               |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                                                 |               |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                                                 |               |
| GW - Groundwater         |                   |               |                                |                                                                                                                                                 |               |

| TENEN ENVIRONMENTAL      |                   |               |                                | Boring No.                                                                                                             | SB-18         |  |  |
|--------------------------|-------------------|---------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|--|--|
|                          |                   |               |                                | Sheet                                                                                                                  | 1 of 1        |  |  |
| Site: River North        |                   |               |                                | Drilling Method:                                                                                                       | Geoprobe      |  |  |
| Date: 1/18/2021          |                   |               |                                | Soil Sampling Method:                                                                                                  | 5' Macro-core |  |  |
| Weather: Sunny, 30s      |                   |               |                                | DTW:                                                                                                                   | N/A           |  |  |
| Observer: A. Platt       |                   |               |                                | Driller :                                                                                                              | AARCO         |  |  |
| Depth (feet)             | PID Reading (ppm) | Soil Recovery | Soil Samples                   | Soil Description                                                                                                       |               |  |  |
| 1                        | 0.0               | 36"           | SB-18<br>(0-2)                 | 0'-5' - FILL, brown to red, fine to medium clayey SAND with brick and gravel, some concrete, medium dense, moist       |               |  |  |
| 2                        |                   |               |                                |                                                                                                                        |               |  |  |
| 3                        | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 4                        |                   |               |                                |                                                                                                                        |               |  |  |
| 5                        | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 6                        | 0.0               | 49"           |                                | 5'-7' - FILL, brown to red, fine to medium clayey SAND with brick and gravel, some concrete, medium dense, moist       |               |  |  |
| 7                        |                   |               |                                | 7'-10' - Reddish brown to orange, fine to medium poorly graded SAND with clay, gravel throughout, medium dense, moist  |               |  |  |
| 8                        | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 9                        |                   |               |                                |                                                                                                                        |               |  |  |
| 10                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 11                       | 0.0               | 60"           |                                | 10'-15' - Reddish brown to orange, fine to medium poorly graded SAND with clay, gravel throughout, medium dense, moist |               |  |  |
| 12                       |                   |               |                                |                                                                                                                        |               |  |  |
| 13                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 14                       |                   |               |                                |                                                                                                                        |               |  |  |
| 15                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 16                       | 0.0               | 43"           |                                | 15'-20' - Reddish brown to orange, fine to medium poorly graded SAND with clay, gravel throughout, medium dense, moist |               |  |  |
| 17                       |                   |               |                                |                                                                                                                        |               |  |  |
| 18                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 19                       |                   |               |                                |                                                                                                                        |               |  |  |
| 20                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 21                       | 0.0               | 48"           | SB-18<br>(20-22)               | 20'-22' - Reddish brown to orange, fine to medium poorly graded SAND with clay, gravel throughout, medium dense, moist |               |  |  |
| 22                       |                   |               |                                | 22'-25' - Weathered Bedrock                                                                                            |               |  |  |
| 23                       | 0.0               |               |                                |                                                                                                                        |               |  |  |
| 24                       |                   |               |                                |                                                                                                                        |               |  |  |
| 25                       | 0.0               |               |                                | End of Boring @ 25 ft-bg                                                                                               |               |  |  |
| Notes:                   |                   |               |                                |                                                                                                                        |               |  |  |
| Legend:                  |                   |               |                                |                                                                                                                        |               |  |  |
| DTW - Depth to Water     |                   |               | PID - Photoionization Detector |                                                                                                                        |               |  |  |
| EOB - End of Boring      |                   |               | SAA - Same as Above            |                                                                                                                        |               |  |  |
| ft-bg - Feet Below Grade |                   |               | NR - Not Recorded              |                                                                                                                        |               |  |  |
| SM - Silty Sand          |                   |               | SP - Poorly Graded Sand        |                                                                                                                        |               |  |  |
| SW - Well-graded Sand    |                   |               | GP - Poorly Graded Gravel      |                                                                                                                        |               |  |  |
| GW - Groundwater         |                   |               |                                |                                                                                                                        |               |  |  |

# Appendix 3

## Soil Vapor Logs

