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# QUARTERLY OPERATION AND MAINTENANCE REPORT – FIRST QUARTER 2023

## **Stanton Cleaners Area Superfund Site**

110 Cutter Mill Road  
Great Neck, New York

NYDEC Site No. 130072

### Prepared For:

New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233  
Contract #D009808

### Prepared By:

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HRP #: DEC1003.OM

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**TABLE OF CONTENTS**

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**1.0 INTRODUCTION ..... 1**

**2.0 SITE BACKGROUND ..... 2**

2.1 Site Location and Current Use ..... 2

2.2 Remedial History ..... 2

2.3 Site Cleanup Objectives ..... 3

**3.0 OPERATIONS AND MAINTENANCE PROGRAM ..... 4**

3.1 Groundwater Extraction and Treatment System Operations and Maintenance ..... 4

3.1.1 Groundwater Extraction and Treatment System Annual State Pollution  
Discharge Elimination System Sampling ..... 4

3.2 Soil Vapor Extraction System Operations and Maintenance ..... 4

**4.0 MONITORING PROGRAM ..... 6**

4.1 Plume Perimeter Monitoring ..... 6

4.2 Groundwater Monitoring Well Repairs ..... 6

4.3 Groundwater Sampling ..... 6

4.4 Indoor Air Quality Sampling ..... 7

4.5 WAGNN Public Supply Well Monitoring ..... 7

4.6 Fire Safety Inspection Tasks ..... 7

**5.0 MAINTENANCE ISSUES AND RECOMMENDED SOLUTIONS ..... 8**

**6.0 FUTURE ACTIVITIES ..... 9**

**7.0 PROGRESS TOWARD CLEANUP OBJECTIVES ..... 10**



## **Figures**

Figure 1	Site Location Map
Figure 2	Site Layout
Figure 3	Monitoring Well Network

## **Tables**

Table 1	SVE System – Analytical Results
Table 2	SVE System – Summary of VOC Mass Removal
Table 3	Well Monitoring Schedule
Table 4	Groundwater Analytical Results
Table 5	Long Island Hebrew Academy - Indoor Air Quality Analytical Results

## **Appendices**

Appendix A	Daily Operation and Maintenance Reports
Appendix B	SVE System Operation and Maintenance Reports
Appendix C	Laboratory Analytical Reports
Appendix D	Monthly Groundwater Level Measurements and Groundwater Sampling Logs
Appendix E	Indoor Air Quality Monitoring – Sampling Questionnaire and Building Inventory
Appendix F	Fire Safety Reports

## **GENERAL INFORMATION**

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### **Project/Site Information:**

Stanton Cleaners Area Superfund Site  
110 Cutter Mill Road  
Great Neck, NY 11021

### **Consultant Information:**

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**Report Date:** 6/16/2023

**Project Manager:**



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Derek Roy  
Project Manager

## 1.0 INTRODUCTION

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HRP Associates, Inc. (HRP) has been contracted by the New York State Department of Environmental Conservation (NYSDEC) for site management tasks under Standby Engineering Contract D009808. Under this contract, on-going site management was assigned to HRP for the former Stanton Cleaners Site, NYSDEC Site No. 130072, located at 110 Cutter Mill Road in Great Neck, New York (herein referred to as the "Site"). The Site location is depicted on **Figure 1**. The Site is currently listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 4 site. This designation is for properly closed sites but requires continued management until remedial objectives are achieved. The U.S. Environmental Protection Agency (EPA) oversaw the operations and maintenance (O&M) and site management from 2001 to 2012. NYSDEC assumed responsibility for site management in 2012. The on-going site management was assigned to HRP in April 2020. This work assignment (WA) includes the following tasks:

- Task 1 – Preliminary Activities.
- Task 2 – Site Management Plan.
- Task 3 – System O&M.
- Task 4 – Monitoring and Reporting.
- Task 5 – Periodic Review and Report.
- Task 6 – Site Remedial Systems Optimization.

This quarterly O&M Report summarizes the O&M and monitoring activities completed during the first quarter of 2023 (January through March 2023). This report provides a description of the work performed throughout the reporting period, a discussion of the data obtained, and documents the relevant performance monitoring.

## 2.0 **SITE BACKGROUND**

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### 2.1 **Site Location and Current Use**

Stanton Cleaners is a former dry-cleaning facility located at 110 Cutter Mill Road in Great Neck, Nassau County, New York (The Site location is shown on **Figure 1**). A dry cleaner had operated at the Site since the 1950s. The property had several different owners in subsequent years and the business may have had several names, most recently Stanton Cleaners. Between about 1958 and 1983, waste liquids from the on-Site dry-cleaning processes were discharged, spilled, or leaked onto the ground behind the facility (U.S. Department of Health, 2004). The Site is located approximately 1,000 feet north of an active public water supply well field owned and operated by the Water Authority of Great Neck North (WAGNN). The Site is approximately .25 acres and includes a two-story building in which the dry-cleaning business operated, an adjacent one-story boiler/storage building, and a building that houses the current remediation system. Site features are depicted on **Figure 2**. The Site is bordered to the west by Cutter Mill Road, to the north and east by a former indoor tennis court, and to the south by a gasoline station. Adjacent areas that have been affected by the contamination include, but are not limited to, the former neighboring Plaza Tennis Center, the Century Condominium Complex, the North Shore Sephardic Synagogue, and the Long Island Hebrew Academy (LIHA).

### 2.2 **Remedial History**

In June of 1983, the Nassau County Department of Health (NCDH) inspected the Stanton Cleaners facility. According to NCDH files, the inspection revealed a pipe protruding from the rear side of the building. It was noted that the pipe was connected to the dry-cleaning fluid/water separator that discharged onto the ground in the rear yard sloping away from the building. To determine the impacts of the separator discharge, soil samples were collected by NCDH in the rear of the building. The results of the analysis indicated the soil was contaminated with tetrachloroethene (PCE) at concentrations up to 8,000 parts per million (ppm). Groundwater sampling conducted in January 1998 by a contractor for the NYSDEC detected PCE; 1,2-dichloroethene (DCE); and trichloroethene (TCE) contamination at, and downgradient of Stanton Cleaners.

On June 8, 1998, the NYSDEC requested that the EPA perform a Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) authorized emergency response action at the Site to address contaminated groundwater impacting the nearby public water supply. The Stanton Cleaners Site was added to the National Priorities List (NPL) on May 17, 1999.

A remediation system was subsequently installed at the Site, which includes Groundwater Extraction and Treatment (GWE&T), soil vapor extraction (SVE), and air sparging. Three extraction wells are associated with the GWE&T system and are equipped with submersible pumps. The extracted groundwater is treated through a 2,000-pound liquid phase granular activated carbon (GAC) vessel prior to discharge to the storm sewer. The SVE system consists of six extraction wells connected to a blower and knockout tank. The extracted vapor is treated through a 3,000-pound vapor phase GAC vessel prior to discharge to the atmosphere. An air sparge system was installed using a compressor to provide sparge air to the screened interval in two wells. Use of the air sparge system was discontinued in December 2014. Per NYSDEC approval, the GWE&T system was shut down in

February 2022, as the concentrations of volatile organic compounds (VOCs) in the influent samples were consistently below their Technical and Operational Guidance Series (TOGS) values.

### **2.3 Site Cleanup Objectives**

On-going remedial actions are being implemented to restore the impacted media (soil, soil vapor, and groundwater) to pre-disposal conditions. The closure criterion will ultimately be determined by the NYSDEC based on the future monitoring data. The Standards, Criteria, and Guidance (SCGs) currently used for the various media being sampled at the Site are summarized below.

- Soil – NYSDEC Environmental Conservation Law (ECL) 6 New York Code of Rules and Regulations (NYCRR) Part 375-6: Remedial Program Soil Cleanup Objectives (SCOs).
- Groundwater – NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
- Soil Vapor – New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion (SVI) in the State of New York.

### **3.0 OPERATIONS AND MAINTENANCE PROGRAM**

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The O&M program for the Stanton Cleaners Area Superfund Site includes the following:

- Monthly inspections of the GWE&T system and SVE system.
- Quarterly sampling of SVE system influent and effluent. Samples are analyzed for VOCs via EPA method TO-15.
- System discharge point to city sewer sampled and analyzed for compliance with state pollution discharge elimination system (SPDES) Equivalency Parameters (discontinued in December 2021; the GWE&T system has been shut down in March 2022).

HRP assumed O&M and sampling responsibilities for the Site in January 2021. Notes related to system issues are included in **Section 5.0** of this report. HRP performs the monthly, quarterly, and annual sampling activities at the Site as well as the day-to-day O&M of the active remediation systems. HRP prepares daily reports during each visit to the Site that summarize Site activities for that day. The daily reports are included in **Appendix A**.

#### **3.1 Groundwater Extraction and Treatment System Operations and Maintenance**

The GWE&T was shut down following the February 2022 O&M event, as approved by the NYSDEC, and is expected to remain off until further notice. The locations of the extraction wells are depicted on **Figure 2**.

##### **3.1.1 Groundwater Extraction and Treatment System Annual State Pollution Discharge Elimination System Sampling**

Annual SPDES sampling of the GWE&T system was not completed during this quarter, and no further sampling of the effluent is planned since the GWE&T system has been shut down.

#### **3.2 Soil Vapor Extraction System Operations and Maintenance**

Air monitoring of the SVE system is performed on a monthly basis. Monitoring includes the field analysis of the following parameters: VOCs, carbon monoxide, oxygen, lower explosive limit, hydrogen sulfide, air velocity (cubic feet per minute (cfm)), temperature, relative humidity, dew point, and vacuum pressure. Originally, the following locations were monitored: SVE-Influent, Post-Blower-Pre-Carbon, EPA-SVE-1 (shallow), EPA-SVE-1 (medium), EPA-SVE-2 (shallow), EPA-SVE-2 (medium), SS-A, SVE-3A, SVE-3B, SVE-1 Combined, SVE-2 Combined, hSVE-1, hSVE-2, and background.

Following system optimization performed in May and June 2022 and the installation of a variable frequency drive (VFD) in November, the monthly SVE operations and monitoring were reduced to the following wells:

- SVE-Influent (pre-treatment)
- Post-Blower (pre-treatment)
- SVE-2 Combined

- SS-3A
- hSVE-1
- hSVE-2
- Background

Monitoring of the SVE system occurred monthly during the first quarter of 2023 on January 4, February 15, and March 15, 2023.

On January 4, the system was off upon arrival due to high level alarm, and sampling was performed following system restart. The system was sampled again on February 15, during the regularly scheduled quarterly sampling; samples were not collected during the March O&M event. Monthly monitoring logs are included in **Appendix B**.

Samples SVE\_INF and SVE\_EFF were collected from the influent and effluent, respectively, via tedlar bags and analyzed for VOCs by TO-15 on January 4, and February 15, 2023. Concentrations of PCE were detected in the influent sample (SVE\_INF) at 440 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and 5,900  $\mu\text{g}/\text{m}^3$ , during the January and February events, respectively. PCE was detected in the effluent sample (SVE\_EFF) at a concentration of 140  $\mu\text{g}/\text{m}^3$  in January but was not detected above the laboratory detection limit in February. Several non-chlorinated VOCs were detected in the influent and/or effluent including 2-hexanone, acetone, benzene, cyclohexane, ethanol, ethylbenzene, hexane, isopropyl alcohol, methyl isobutyl ketone, styrene, xylenes, and toluene. Laboratory sample results are included on **Table 1**. The laboratory analytical reports are included in **Appendix C**.

The VelociCalc® meter recorded a flow rate of approximately 22.04 cfm at the SVE influent in January, 18.34 cfm in February, and 18.88 in March 2023. Based on the data available, approximately 0.32 pounds (lbs.) of chlorinated VOCs (consisting primarily of PCE, TCE, and cis-1,2-DCE) were removed by the SVE system during the first quarter of 2023. The VOC mass removal for the first quarter of 2023 is summarized on **Table 2**. The laboratory analytical reports are included in **Appendix C**.

## 4.0 **MONITORING PROGRAM**

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The monitoring program for the Stanton Cleaners Area Superfund Site includes the following:

- Quarterly O&M reports.
- Monthly gauging of sixteen monitoring wells for water level.
- Semi-annual groundwater sampling of the well network for analysis of VOCs via EPA Method 8260.
- Annual SVI sampling at the LIHA.
- Monitoring of the WAGNN supply well.

### 4.1 **Plume Perimeter Monitoring**

Monitoring wells are gauged for water level on a monthly basis to assess capture zones around the groundwater extraction well EPA-EXT-02. **Figure 3** depicts the network of monitoring wells.

Monitoring wells were gauged monthly during the first quarter of 2023. The locations and number of wells monitored were previously determined by the EPA based on the 2014 *Final Capture Zone Analysis Report*. **Appendix D** includes the groundwater level measurements.

### 4.2 **Groundwater Monitoring Well Repairs**

No well repairs were conducted during the first quarter of 2023.

### 4.3 **Groundwater Sampling**

Beginning in January 2023, and at the approval of the NYSDEC, low flow groundwater sampling methodology was replaced with passive diffusion bag (PDB) sampling. Following the July 2022 semi-annual sampling event, PDBs were placed in each well and allowed to equilibrate until the January sampling event. Routine semi-annual groundwater sampling event was conducted on January 4, 2023. The next semi-annual groundwater sampling event is scheduled for July 2023. **Table 3** summarizes the groundwater monitoring schedule. **Table 4** summarizes the January 2023 groundwater analysis results, and the groundwater sampling logs are provided in **Appendix D**.

During the January 2023 semi-annual groundwater sampling event, PCE was detected above the Class GA Criteria in the groundwater samples collected from three monitoring wells, EPA-MW-21R, ST-MW-18, and ST-MW-19, at concentrations of 15.1 µg/l, 6.24, and 85 µg/l, respectively. EPA-MW-21R is located on the southwestern portion of the Site; ST-MW-18 is located approximately 800 feet to the south of the Site at Ascot Ridge; and ST-MW-19 is located south of the Site across Bayview Avenue. PCE was also detected in MW-101, EPA-MW-23, EPA-MW-26, ST-MW-12, ST-MW-13, ST-MW-14, ST-MW-15, ST-MW-16, ST-MW-17, and ST-MW-20 at concentrations below the regulatory standard.

Additional VOCs, including 1,1-dichloroethylene, chloroform, methyl-tert butyl ether, and trichloroethylene, were detected below the regulatory standard in groundwater samples collected from the other monitoring wells (MW-100, MW-101, EPA-MW-9A, EPA-MW-11D, EPA-MW-23, ST-

MW-12, ST-MW-13, ST-MW-14, ST-MW-15, ST-MW-16, ST-MW-18, ST-MW-19, ST-MW-20, EPA-MW-21R, EPA-MW-26, and EPA-MW-27).

#### **4.4 Indoor Air Quality Sampling**

Indoor air sampling at the LIHA is to be performed annually in December, however, due to the holiday school schedule and at the request of the LIHA, sampling was rescheduled to January 4-5, 2023. Three indoor air samples (two basement; one first floor), one outdoor air sample, and one duplicate indoor air sample were collected from the LIHA building using 6-liter Summa® canisters, equipped with 24-hour flow controllers, and submitted for the analysis of VOCs via USEPA Method TO-15. A copy of the LIHA indoor air sampling questionnaire is provided in **Appendix E**.

The following compounds were detected in all or some of the samples (including the duplicate): 1,1,2-trichlorotrifluoroethane, 1,2,4-trimethylbenzene, 1,3 butadiene, 1,3,5-trimethylbenzene, 1,4-dichlorobenzene, 1-ethyl-4-methyl-benzene, methyl butyl ketone, acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, ethanol, ethyl acetate, ethylbenzene, heptane, isopropyl alcohol, naphthalene, styrene, PCE, tetrahydrofuran, toluene, m-xylene and p-xylene, o-xylene, trichlorofluoromethane, and vinyl acetate. The Analytical results are summarized on **Table 5**.

#### **4.5 WAGNN Public Supply Well Monitoring**

Monitoring of the WAGNN public supply well was not conducted during this quarter.

#### **4.6 Fire Safety Inspection Tasks**

Monthly fire inspections were completed during the first quarter of 2023. Emergency lighting testing was performed in March 2023. All fire safety items are addressed, inspection forms are maintained at the site, and copies are included in **Appendix F**.

## **5.0 MAINTENANCE ISSUES AND RECOMMENDED SOLUTIONS**

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Several O&M issues were identified when HRP assumed O&M responsibilities in January 2021. The following lists the outstanding items that HRP is working to address in 2023:

- Based on discussions with NYSDEC and NYSDOH, the GWE&T system was shut down in the first quarter of 2022; therefore, no repairs will be performed to address issues previously identified with the GWE&T system.
- Fire safety inspections are performed monthly.

HRP will be working on implementing the above recommendations as part of ongoing O&M of the remediation systems in 2023.

## **6.0 FUTURE ACTIVITIES**

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Future maintenance and monitoring activities at the Site includes the following:

- Optimization of the SVE system will continue through the second quarter 2023.
- Semi-annual groundwater sampling is scheduled to be completed in the third quarter of 2023.
- Annual indoor air sampling at the LIHA is scheduled to be completed in December 2023.

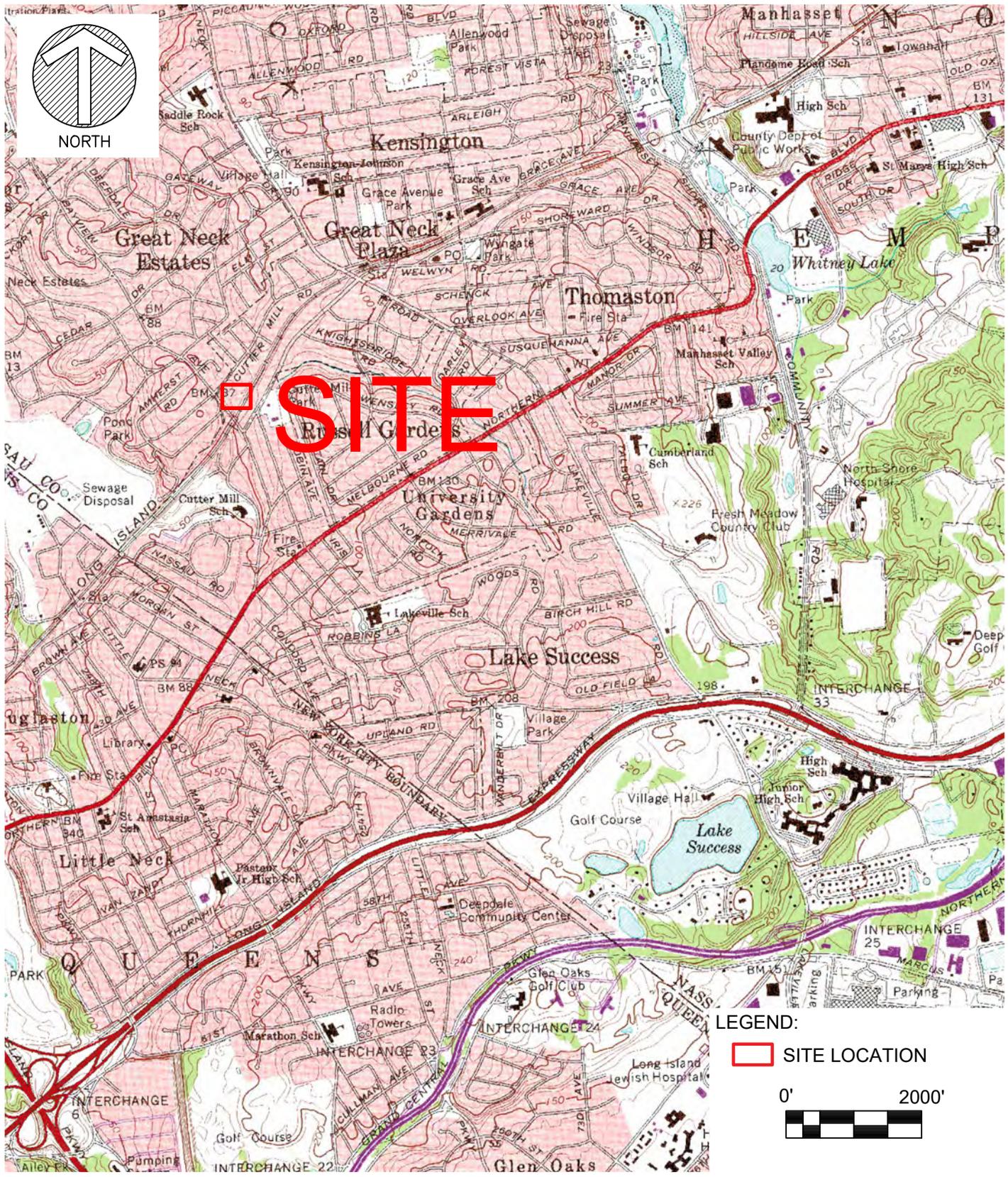
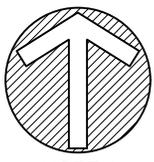
**7.0 PROGRESS TOWARD CLEANUP OBJECTIVES**

Based on review of O&M field notes and laboratory analysis of SVE-Influent samples analyzed by the laboratory, the SVE system removed approximately 0.32 lbs. of VOCs consisting primarily of PCE. The total cost of system O&M during this quarter was \$16,845.42 (Tasks 3 through 5 of the WA). A cost per pound of vapor phase VOC removal is provided below.

Quarterly Cost Summary					
Period	Quarterly O&M Cost	VOC Mass Removed by SVE (lbs.)	VOC Mass Removed by GWE&T (lbs.)	Total VOC Mass Removed (lbs.)	Cost per Pound of VOC Removal
1/1/2023 through 03/31/2023	\$16,845.42	0.32	NA	0.32	Not applicable (<1lb removed)

Based on the laboratory data from SVE system influent and the photoionization detector (PID) readings at the SVE system during each monthly visit, the SVE system continues to recover VOC mass from the subsurface, and the system will be continued to be evaluated for optimization actions through Q2 2023 to maximize mass recovery.

# FIGURES



**SITE LOCATION MAP**

**STANTON CLEANERS**  
110 CUTTER MILL ROAD  
GREAT NECK, NEW YORK 11021

1" = 2000'

SCALE:

05/13/2020

ISSUE DATE:

DEC1003.OM

PROJECT NUMBER:

FIGURE

**1**

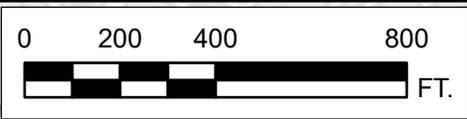




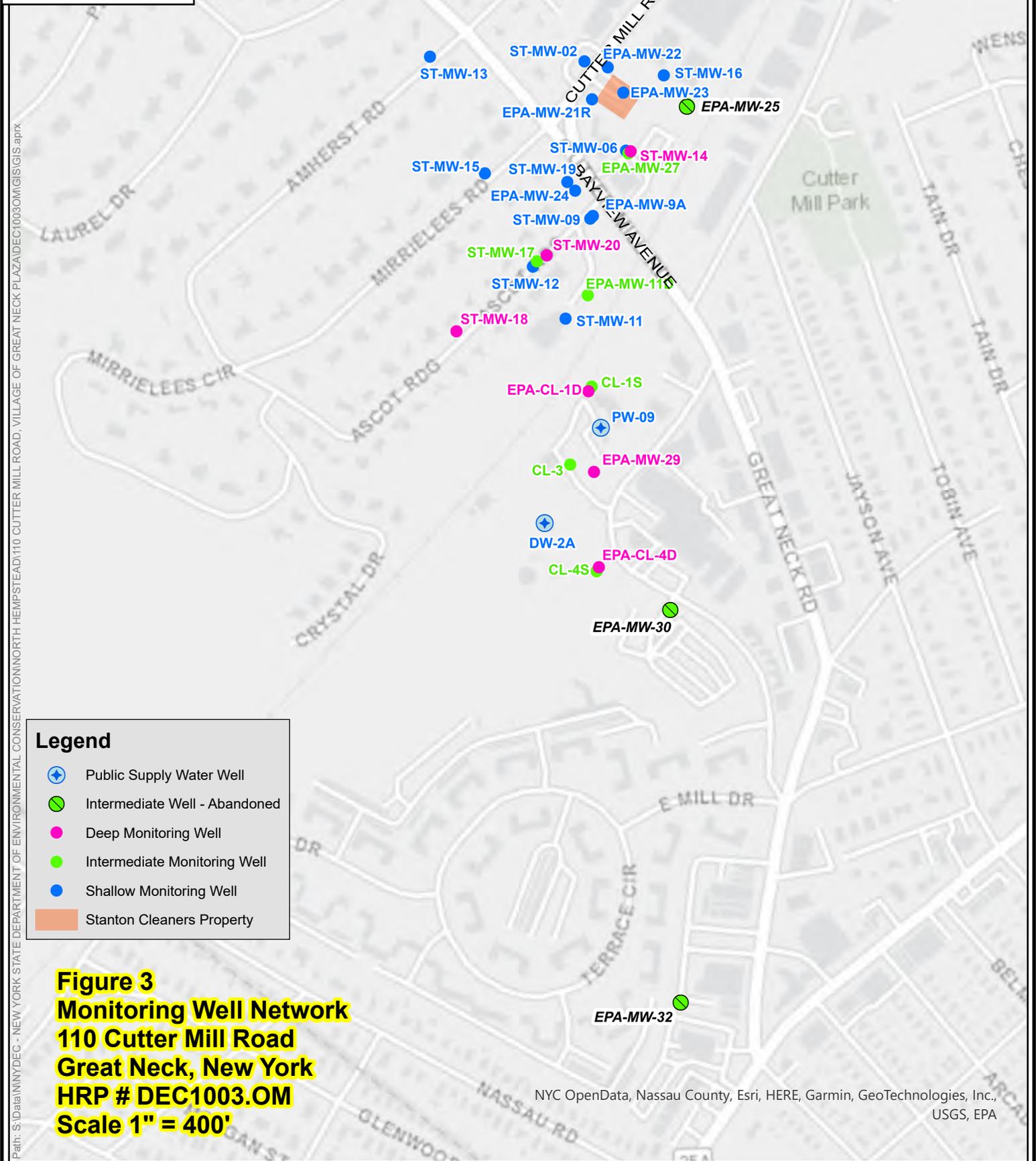


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**Legend**

- Public Supply Water Well
- Intermediate Well - Abandoned
- Deep Monitoring Well
- Intermediate Monitoring Well
- Shallow Monitoring Well
- Stanton Cleaners Property

**Figure 3**  
**Monitoring Well Network**  
**110 Cutter Mill Road**  
**Great Neck, New York**  
**HRP # DEC1003.OM**  
**Scale 1" = 400'**

# TABLES

Table 1  
SVE System - Analytical Results  
110 CUTTER MILL ROAD, VILLAGE OF GREAT NECK PLAZA, NY  
HRP# DEC1003.OM

ID:	SVE-INF	SVE-INF	SVE-EFF	SVE-EFF
Date Collected:	01/04/2023	02/15/2023	01/04/2023	02/15/2023
Lab Report No:	23A0672	23B1957	23A0672	23B1957
Sample Type:	N	N	N	N
Parameter	Units			
<b>Gasses</b>				
1,1,1-Trichloroethane	µg/m <sup>3</sup>	< 1.1	< 1.1	< 1.1
1,1,2,2-Tetrachloroethane	µg/m <sup>3</sup>	< 1.4	< 1.4	< 1.4
1,1,2-Trichloroethane	µg/m <sup>3</sup>	< 1.1	< 1.1	< 1.1
1,1,2-Trichlorotrifluoroethane (Freon 113)	µg/m <sup>3</sup>	< 6.1	< 6.1	< 6.1
1,1-Dichloroethane	µg/m <sup>3</sup>	< 0.81	< 0.81	< 0.81
1,1-Dichloroethene	µg/m <sup>3</sup>	< 0.79	< 0.79	< 0.79
1,2,4-Trichlorobenzene	µg/m <sup>3</sup>	< 1.5	< 1.5	< 1.5
1,2,4-Trimethylbenzene	µg/m <sup>3</sup>	<b>0.73 JD</b>	< 0.98	<b>1.6 D</b>
1,2-Dibromoethane (EDB) (ethylene dibromide)	µg/m <sup>3</sup>	< 1.5	< 1.5	< 1.5
1,2-Dichlorobenzene	µg/m <sup>3</sup>	< 1.2	< 1.2	< 1.2
1,2-Dichloroethane	µg/m <sup>3</sup>	< 0.81	< 0.81	< 0.81
1,2-Dichloropropane	µg/m <sup>3</sup>	<b>1.1 D</b>	<b>1.0 D</b>	<b>1.8 D</b>
1,2-Dichlorotetrafluoroethane (Freon 114)	µg/m <sup>3</sup>	< 1.4	< 1.4	< 1.4
1,3 Butadiene	µg/m <sup>3</sup>	< 0.44	< 0.44	< 0.44
1,3,5-trimethyl-benzene	µg/m <sup>3</sup>	< 0.98	< 0.98	< 0.98
1,3-Dichlorobenzene	µg/m <sup>3</sup>	< 1.2	< 1.2	< 1.2
1,4-Dichlorobenzene	µg/m <sup>3</sup>	< 1.2	< 1.2	< 1.2
1,4-Dioxane	µg/m <sup>3</sup>	< 7.2	< 7.2	< 7.2
1-Ethyl-4-methyl-benzene	µg/m <sup>3</sup>	< 0.98	< 0.98	< 0.98
2-Butanone (MEK)	µg/m <sup>3</sup>	<b>44 D</b>	< 24	<b>48 D</b>
2-Hexanone (Methyl butyl ketone/MBK)	µg/m <sup>3</sup>	< 0.82	<b>1.6 D</b>	<b>1.3 D</b>
Acetone	µg/m <sup>3</sup>	<b>33 D</b>	<b>22 D</b>	<b>25 D</b>
Benzene	µg/m <sup>3</sup>	<b>1.1 D</b>	<b>1.7 D</b>	<b>0.96 D</b>
Benzyl chloride	µg/m <sup>3</sup>	< 1	< 1	< 1
Bromodichloromethane	µg/m <sup>3</sup>	< 1.3	< 1.3	< 1.3
Bromoform	µg/m <sup>3</sup>	< 2.1	< 2.1	< 2.1
Bromomethane	µg/m <sup>3</sup>	< 0.78	< 0.78	< 0.78
Carbon disulfide	µg/m <sup>3</sup>	< 6.2	< 6.2	< 6.2
Carbon tetrachloride	µg/m <sup>3</sup>	< 1.3	< 1.3	< 1.3
Chlorobenzene	µg/m <sup>3</sup>	< 0.92	< 0.92	< 0.92
Chloroethane	µg/m <sup>3</sup>	< 0.53	< 0.53	< 0.53
Chloroform	µg/m <sup>3</sup>	<b>1.3 D</b>	< 0.98	<b>1.1 D</b>
Chloromethane	µg/m <sup>3</sup>	<b>0.97 D</b>	<b>1.2 D</b>	<b>1.2 D</b>
cis-1,2-Dichloroethene	µg/m <sup>3</sup>	<b>74 D</b>	<b>250 D</b>	<b>1.3 D</b>
cis-1,3-Dichloropropene	µg/m <sup>3</sup>	< 0.91	< 0.91	< 0.91
Cyclohexane	µg/m <sup>3</sup>	< 0.69	<b>3.1 D</b>	< 0.69
Dibromochloromethane	µg/m <sup>3</sup>	< 1.7	< 1.7	< 1.7
Dichlorodifluoromethane	µg/m <sup>3</sup>	<b>2.1 D</b>	<b>2.6 D</b>	<b>0.99 D</b>
Ethanol	µg/m <sup>3</sup>	<b>150 D</b>	<b>140 D</b>	<b>69 D</b>
Ethyl Acetate	µg/m <sup>3</sup>	< 7.2	< 7.2	< 7.2
Ethylbenzene	µg/m <sup>3</sup>	< 0.87	<b>2.2 D</b>	<b>0.63 JD</b>
Heptane	µg/m <sup>3</sup>	<b>0.57 JD</b>	< 0.82	<b>0.52 JD</b>
Hexachloro-1,3-butadiene	µg/m <sup>3</sup>	< 2.1	< 2.1	< 2.1
Hexane	µg/m <sup>3</sup>	< 28	<b>140 D</b>	< 28
Isopropyl Alcohol	µg/m <sup>3</sup>	<b>6.7 JD</b>	<b>37 D</b>	<b>8.2 JD</b>
m,p-Xylene	µg/m <sup>3</sup>	<b>1.4 JD</b>	<b>10 D</b>	<b>1.8 D</b>
Methyl isobutyl ketone (MIBK)	µg/m <sup>3</sup>	< 0.82	<b>1.1 D</b>	< 0.82
Methylene chloride	µg/m <sup>3</sup>	< 6.9	< 6.9	< 6.9
Methyltertbutyl ether	µg/m <sup>3</sup>	< 0.72	< 0.72	< 0.72
Naphthalene	µg/m <sup>3</sup>	< 1	< 1	< 1
o-Xylene	µg/m <sup>3</sup>	<b>0.57 JD</b>	<b>7.1 D</b>	<b>0.82 JD</b>
Propene	µg/m <sup>3</sup>	<b>3.2 JD</b>	< 14	< 14
Styrene	µg/m <sup>3</sup>	< 0.85	<b>1.0 D</b>	<b>0.49 JD</b>
Tetrachloroethane	µg/m <sup>3</sup>	<b>440 D</b>	<b>5900 D</b>	<b>140 D</b>
Tetrahydrofuran	µg/m <sup>3</sup>	<b>63 D</b>	< 5.9	<b>67 D</b>
Toluene	µg/m <sup>3</sup>	<b>5.0 D</b>	<b>4.4 D</b>	<b>8.3 D</b>
trans-1,2-Dichloroethene	µg/m <sup>3</sup>	<b>0.86 D</b>	<b>1.3 D</b>	< 0.79
trans-1,3-Dichloropropene	µg/m <sup>3</sup>	< 0.91	< 0.91	< 0.91
Trichloroethene	µg/m <sup>3</sup>	<b>37 D</b>	<b>170 D</b>	<b>2.6 D</b>
Trichlorofluoromethane	µg/m <sup>3</sup>	<b>1.5 JD</b>	< 4.5	< 4.5
Vinyl acetate	µg/m <sup>3</sup>	< 14	< 14	< 14
Vinyl chloride	µg/m <sup>3</sup>	< 0.51	< 0.51	< 0.51

Legend:  
µg/m<sup>3</sup> = micrograms per cubic meter  
< 1.0 = constituent not detected greater than the Laboratory Reporting Limit  
**1.0** = constituent detected at a concentration greater than the Reporting Limit

**Table 2: Soil Vapor Extraction System  
Summary of VOC Mass Removal  
Stanton Cleaners - NYSDEC Site # 130072  
110 Cutter Mill Road, Great Neck, NY**

Sample Date	Period (Days)	PCE Concentration (mg/m <sup>3</sup> )	TCE Concentration (mg/m <sup>3</sup> )	cis-1,2-DCE Concentration (mg/m <sup>3</sup> )	Flowrate (cfm)	Ave. PCE Concentration (mg/m <sup>3</sup> )	PCE Discharge (lbs)	Ave. TCE Concentration (mg/m <sup>3</sup> )	TCE Discharge (lbs)	cis-1,2-DCE Concentration (mg/m <sup>3</sup> )	cis-1,2-DCE Discharge (lbs)	Cumulative VOC Mass Removed (lbs)
3/20/2020	1	34.00	0.410	0.40	189	17.00	0.29	0.21	0.00	0.20	0.00	0
6/3/2020	75	10.00	0.280	0.40	189	22.00	28.03	0.35	0.44	0.40	0.00	28.47
9/1/2020	90	12.00	0.390	0.32	189	11.00	16.82	0.34	0.51	0.36	0.00	45.81
12/7/2020	97	5.30	0.160	0.15	186	8.65	14.03	0.28	0.45	0.235	0.00	60.28
12/24/2020	17	5.30	0.160	0.15	186	5.30	1.51	0.16	0.05	0.150	0.00	61.84
SVE Temporarily Shut Down												
3/18/2021	1	0.00	0.022	0.000	186	0.00	0.00	0.01	0.00	0.000	0.00	61.84
3/31/2021	13	0.00	0.022	0.000	186	0.00	0.00	0.02	0.00	0.00	0.00	61.84
6/30/2021	91	0.20	0.006	0.007	21.8	0.10	0.02	0.01	0.00	0.00	0.00	61.86
9/28/2021	90	1.00	0.047	0.044	20.07	0.60	0.10	0.03	0.00	0.03	0.00	61.96
12/20/2021	83	0.00	0.000	0.000	7.20	0.50	0.03	0.02	0.00	0.02	0.00	61.99
3/31/2022	101	5.80	0.170	0.170	23.36	2.90	0.62	0.09	0.02	0.09	0.00	62.62
4/26/2022	26	3.10	0.140	0.150	23.77	4.45	0.25	0.16	0.01	0.16	0.00	62.88
5/26/2022	30	3.50	0.120	0.120	20.78	3.30	0.18	0.13	0.01	0.14	0.00	63.07
6/22/2022	27	2.20	0.097	0.089	27.30	2.85	0.19	0.11	0.01	0.10	0.00	63.27
7/28/2022	36	12.00	0.360	0.260	21.48	7.10	0.49	0.23	0.02	0.17	0.00	63.78
10/25/2022	89	0.099	0.029	0.083	20.74	6.05	1.00	0.19	0.03	0.17	0.00	64.81
11/29/2022	35	0.56	0.070	0.095	21.19	0.33	0.02	0.05	0.00	0.09	0.00	64.84
12/19/2022	20	0.16	0.038	0.100	17.85	0.36	0.01	0.05	0.00	0.09	0.00	64.85
1/5/2023	17	0.44	0.037	0.074	22.04	0.30	0.01	0.04	0.00	0.17	0.00	64.86
2/15/2023	58	5.90	0.170	0.250	18.34	3.17	0.30	0.10	0.01	0.16	0.00	65.18

**Notes:**

PCE = Tetrachloroethylene  
TCE = Trichloroethylene  
Cis-1,2-DCE = cis-1,2-dichloroethylene  
cfm = cubic feet per minute  
ave. = average  
lbs = pounds  
mg/m<sup>3</sup> = milligrams per cubic meter

**Table 3: Well Monitoring Schedule**

Stanton Cleaners - NYSDEC # 130072

110 Cutter Mill Road, Great Neck, NY

Well ID	Monthly Gauging	Semi-Annual Sampling
EPA-MW-9A	x	x
EPA-MW-11D	x	x
EPA-MW-21R	x	x
EPA-MW-23	x	x
EPA-MW-26	x	x
EPA-MW-27	x	x
ST-MW-11	x	x
ST-MW-12	x	x
ST-MW-13	x	x
ST-MW-14	x	x
ST-MW-15	x	x
ST-MW-16	x	x
ST-MW-17	x	x
ST-MW-18	x	x
ST-MW-19	x	x
ST-MW-20	x	x

Note: Semi-annual sampling conducted in January and July

Table 4. Summary of Semi-Annual Groundwater Monitoring Analytical Results  
 110 Cutter Mill Road, Village of Great Neck Plaza, NY  
 HRP# DEC1003.OM

			ID:	EPA-MW-9A	STA-MW-11	EPA-MW-11D	MW-100 (MW-11D DUP)	STA-MW-12	STA-MW-13	MW-101 (MW-13 DUP)	STA-MW-14	STA-MW-15
			Date Collected:	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023
			Lab Report No:	23A0669	23A0669	23A0669	23A0669	23A0669	23A0669	23A0669	23A0669	23A0669
Parameter	Unit	NYDEC Class GA Criteria										
<b>Volatile Organic Compounds (VOCs)</b>												
1,1,1-Trichloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	µg/L	1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<b>0.710 J</b>	< 2
1,2-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	µg/L	0.6	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	µg/L	1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	µg/L	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroform	µg/L	7	<b>0.210 J</b>	< 2	<b>0.380 J</b>	<b>0.390 J</b>	<b>0.270 J</b>	<b>0.790 J</b>	<b>0.770 J</b>	< 2	<b>0.170 J</b>	< 2
Chloromethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,3-Dichloropropene	µg/L	0.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	µg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methylene chloride	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyltertbutyl ether	µg/L	10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	µg/L	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	5	< 2	< 2	< 2	< 2	<b>3.15</b>	<b>0.400 J</b>	<b>0.420 J</b>	<b>0.370 J</b>	<b>0.270 J</b>	< 2
Toluene	µg/L	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
trans-1,3-Dichloropropene	µg/L	0.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	µg/L	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Legend:

µg/L = micrograms per liter

< 1.0 = constituent not detected greater than the Laboratory Reporting Limit

**1.0** = constituent detected at a concentration greater than the Reporting Limit

**1.0** = constituent detected at a concentration greater than the NYDEC Class GA Criteria

Table 4. Summary of Semi-Annual Groundwater Monitoring Analytical Results  
 110 Cutter Mill Road, Village of Great Neck Plaza, NY  
 HRP# DEC1003.OM

			ID:	STA-MW-16	STA-MW-17	STA-MW-18	STA-MW-19	STA-MW-20	EPA-MW-21R	EPA-MW-23	EPA-MW-26	EPA-MW-27
			Date Collected:	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023	01/04/2023
			Lab Report No:	23A0669	23A0669							
Parameter	Unit	NYDEC Class GA Criteria										
<b>Volatile Organic Compounds (VOCs)</b>												
1,1,1-Trichloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	µg/L	1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	µg/L	5	< 2	< 2	<b>0.650 J</b>	< 2	<b>1.31 J</b>	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	µg/L	0.6	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	µg/L	1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-Dichlorobenzene	µg/L	3	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	µg/L	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroform	µg/L	7	<b>0.200 J</b>	< 2	<b>0.390 J</b>	< 2	<b>0.230 J</b>	<b>0.170 J</b>	< 2	<b>0.190 J</b>	<b>0.190 J</b>	< 2
Chloromethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,3-Dichloropropene	µg/L	0.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	µg/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	µg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methylene chloride	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyltertbutyl ether	µg/L	10	< 2	< 2	< 2	<b>0.200 J</b>	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	µg/L	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	5	<b>0.890 J</b>	<b>0.300 J</b>	<b>6.24</b>	<b>85.0</b>	<b>1.09 J</b>	<b>15.1</b>	<b>0.740 J</b>	<b>0.700 J</b>	< 2	< 2
Toluene	µg/L	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
trans-1,3-Dichloropropene	µg/L	0.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	µg/L	5	< 2	< 2	<b>0.960 J</b>	<b>0.450 J</b>	<b>0.440 J</b>	<b>0.320 J</b>	< 2	< 2	< 2	< 2
Trichlorofluoromethane	µg/L	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	µg/L	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Legend:

µg/L = micrograms per liter

< 1.0 = constituent not detected greater than the Laboratory Reporting Limit

**1.0** = constituent detected at a concentration greater than the Reporting Limit

**1.0** = constituent detected at a concentration greater than the NYDEC Class GA Criteria

Table 5  
 Long Island Hebrew Academy - Indoor Air Quality Analytical Results  
 110 CUTTER MILL ROAD, VILLAGE OF GREAT NECK PLAZA, NY  
 HRP# DEC1003.OM

ID:	LIHA-IA1	LIHA-IA1	LIHA-IA2	LIHA-IA3	LIHA-OA1
Date Collected:	01/05/2023	01/05/2023	01/05/2023	01/05/2023	01/05/2023
Lab Report No:	23A0671	23A0671	23A0671	23A0671	23A0671
Sample Type:	FD	N	N	N	N
Parameter	units				
<b>Gasses</b>					
<b>1,1,1-Trichloroethane</b>	µg/m <sup>3</sup>	< 0.15	< 0.15	< 0.15	< 0.15
1,1,2,2-Tetrachloroethane	µg/m <sup>3</sup>	< 0.13	< 0.13	< 0.13	< 0.13
1,1,2-Trichloroethane	µg/m <sup>3</sup>	< 0.13	< 0.13	< 0.13	< 0.13
1,1,2-Trichlorotrifluoroethane (Freon 113)	µg/m <sup>3</sup>	<b>0.49 JD</b>	<b>0.44 JD</b>	<b>0.52 JD</b>	<b>0.44 JD</b>
1,1-Dichloroethane	µg/m <sup>3</sup>	< 0.12	< 0.12	< 0.12	< 0.12
<b>1,1-Dichloroethene</b>	µg/m <sup>3</sup>	< 0.11	< 0.11	< 0.11	< 0.11
1,2,4-Trichlorobenzene	µg/m <sup>3</sup>	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trimethylbenzene	µg/m <sup>3</sup>	<b>0.41 D</b>	<b>0.43 D</b>	<b>0.57 D</b>	<b>0.49 D</b>
1,2-Dibromoethane (EDB) (ethylene dibromide)	µg/m <sup>3</sup>	< 0.16	< 0.16	< 0.16	< 0.16
1,2-Dichlorobenzene	µg/m <sup>3</sup>	< 0.12	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	µg/m <sup>3</sup>	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichloropropane	µg/m <sup>3</sup>	< 0.088	< 0.088	< 0.087	< 0.088
1,2-Dichlorotetrafluoroethane (Freon 114)	µg/m <sup>3</sup>	< 0.24	< 0.24	< 0.24	< 0.24
1,3 Butadiene	µg/m <sup>3</sup>	< 0.065	<b>0.16 D</b>	<b>0.13 D</b>	<b>0.15 D</b>
1,3,5-trimethyl-benzene	µg/m <sup>3</sup>	<b>0.12 JD</b>	<b>0.14 JD</b>	<b>0.18 D</b>	<b>0.12 JD</b>
1,3-Dichlorobenzene	µg/m <sup>3</sup>	< 0.12	< 0.12	< 0.12	< 0.12
1,4-Dichlorobenzene	µg/m <sup>3</sup>	<b>0.17 JD</b>	<b>0.18 JD</b>	<b>0.26 D</b>	<b>0.18 JD</b>
1,4-Dioxane	µg/m <sup>3</sup>	< 0.1	< 0.1	< 0.1	< 0.1
1-Ethyl-4-methyl-benzene	µg/m <sup>3</sup>	<b>0.11 JD</b>	<b>0.11 JD</b>	<b>0.14 JD</b>	<b>0.11 JD</b>
2-Butanone (MEK)	µg/m <sup>3</sup>	<b>1.4 JD</b>	<b>2.2 JD</b>	<b>2.0 JD</b>	<b>1.4 JD</b>
2-Hexanone (Methyl butyl ketone/MBK)	µg/m <sup>3</sup>	<b>0.22 D</b>	<b>0.43 D</b>	<b>0.31 D</b>	<b>0.24 D</b>
Acetone	µg/m <sup>3</sup>	<b>22 D</b>	<b>24 D</b>	<b>28 D</b>	<b>24 D</b>
Benzene	µg/m <sup>3</sup>	<b>0.91 D</b>	<b>0.89 D</b>	<b>0.90 D</b>	<b>0.89 D</b>
Benzyl chloride	µg/m <sup>3</sup>	< 0.16	< 0.16	< 0.16	< 0.16
Bromodichloromethane	µg/m <sup>3</sup>	< 0.16	< 0.16	< 0.16	< 0.16
Bromoform	µg/m <sup>3</sup>	< 0.25	< 0.25	< 0.24	< 0.25
Bromomethane	µg/m <sup>3</sup>	< 0.091	< 0.091	< 0.09	< 0.091
Carbon disulfide	µg/m <sup>3</sup>	<b>0.12 JD</b>	<b>0.17 JD</b>	< 0.1	<b>0.11 JD</b>
<b>Carbon tetrachloride</b>	µg/m <sup>3</sup>	<b>0.32 D</b>	<b>0.39 D</b>	<b>0.30 D</b>	<b>0.40 D</b>
Chlorobenzene	µg/m <sup>3</sup>	< 0.11	< 0.11	< 0.11	< 0.11
Chloroethane	µg/m <sup>3</sup>	< 0.082	< 0.082	<b>0.11 D</b>	< 0.082
Chloroform	µg/m <sup>3</sup>	< 0.16	<b>0.17 D</b>	<b>0.34 D</b>	< 0.16
Chloromethane	µg/m <sup>3</sup>	<b>1.1 D</b>	<b>1.1 D</b>	<b>1.2 D</b>	<b>1.1 D</b>
<b>cis-1,2-Dichloroethene</b>	µg/m <sup>3</sup>	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-Dichloropropene	µg/m <sup>3</sup>	< 0.082	< 0.082	< 0.082	< 0.082
Cyclohexane	µg/m <sup>3</sup>	<b>0.29 D</b>	<b>0.42 D</b>	<b>0.40 D</b>	<b>0.38 D</b>
Dibromochloromethane	µg/m <sup>3</sup>	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	µg/m <sup>3</sup>	<b>1.1 D</b>	<b>1.2 D</b>	<b>1.1 D</b>	<b>1.1 D</b>
Ethanol	µg/m <sup>3</sup>	<b>520 D</b>	<b>500 D</b>	<b>1100 D</b>	<b>590 D</b>
Ethyl Acetate	µg/m <sup>3</sup>	<b>2.4 D</b>	<b>2.2 D</b>	<b>1.7 D</b>	< 0.64
Ethylbenzene	µg/m <sup>3</sup>	<b>0.39 D</b>	<b>0.41 D</b>	<b>0.41 D</b>	<b>0.39 D</b>
Heptane	µg/m <sup>3</sup>	<b>0.67 D</b>	<b>0.69 D</b>	<b>0.95 D</b>	<b>0.66 D</b>
Hexachloro-1,3-butadiene	µg/m <sup>3</sup>	< 0.31	< 0.31	< 0.31	< 0.31
Hexane	µg/m <sup>3</sup>	<b>1.0 JD</b>	<b>1.0 JD</b>	<b>1.1 JD</b>	<b>1.0 JD</b>
Isopropyl Alcohol	µg/m <sup>3</sup>	<b>5.0 D</b>	<b>5.0 D</b>	<b>1.2 D</b>	<b>4.9 D</b>
m,p-Xylene	µg/m <sup>3</sup>	<b>1.1 D</b>	<b>1.1 D</b>	<b>1.2 D</b>	<b>1.1 D</b>
Methyl isobutyl ketone (MIBK)	µg/m <sup>3</sup>	<b>0.32 D</b>	<b>0.35 D</b>	<b>0.37 D</b>	<b>0.27 D</b>
<b>Methylene chloride</b>	µg/m <sup>3</sup>	< 0.57	< 0.57	< 0.56	< 0.57
Methyltertbutyl ether	µg/m <sup>3</sup>	< 0.098	< 0.098	< 0.097	< 0.098
Naphthalene	µg/m <sup>3</sup>	<b>0.22 D</b>	<b>0.27 D</b>	<b>0.15 JD</b>	<b>0.21 D</b>
o-Xylene	µg/m <sup>3</sup>	<b>0.44 D</b>	<b>0.45 D</b>	<b>0.46 D</b>	<b>0.41 D</b>
Propene	µg/m <sup>3</sup>	< 0.53	< 0.53	< 0.53	< 0.53
Styrene	µg/m <sup>3</sup>	<b>0.22 D</b>	<b>0.22 D</b>	<b>0.35 D</b>	<b>0.21 D</b>
<b>Tetrachloroethene</b>	µg/m <sup>3</sup>	<b>1.0 D</b>	<b>1.0 D</b>	<b>2.1 D</b>	<b>0.90 D</b>
Tetrahydrofuran	µg/m <sup>3</sup>	<b>0.27 JD</b>	<b>0.22 JD</b>	<b>0.55 JD</b>	<b>0.25 JD</b>
Toluene	µg/m <sup>3</sup>	<b>3.1 D</b>	<b>3.0 D</b>	<b>2.8 D</b>	<b>2.8 D</b>
trans-1,2-Dichloroethene	µg/m <sup>3</sup>	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,3-Dichloropropene	µg/m <sup>3</sup>	< 0.082	< 0.082	< 0.081	< 0.082
<b>Trichloroethene</b>	µg/m <sup>3</sup>	< 0.13	< 0.13	< 0.13	< 0.13
Trichlorofluoromethane	µg/m <sup>3</sup>	<b>1.2 D</b>	<b>1.2 D</b>	<b>1.2 D</b>	<b>1.2 D</b>
Vinyl acetate	µg/m <sup>3</sup>	<b>1.6 JD</b>	<b>1.8 JD</b>	<b>1.7 JD</b>	<b>1.3 JD</b>
<b>Vinyl chloride</b>	µg/m <sup>3</sup>	< 0.081	< 0.081	< 0.08	< 0.081

**Legend**

<1 = compound not detected above the laboratory reporting limit

1 = compound detected at a concentration greater than the laboratory reporting limit

**Methylene Chloride** = bolded compound indicates a compound identified on the NYDEC Soil Vapor/ Indoor Air Matrix A, B, and/or C

µg/m<sup>3</sup> = micrograms per cubic meter

FD = field duplicate sample

# APPENDIX A

## Daily Operation and Maintenance Reports









**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 01/04/23

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Site Photographs (Descriptions Below)



VFD



Ceiling Inspection in second floor office



**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 01/04/23



**Comments**

**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 01/04/23

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<b>Site Inspector(s):</b>	<b>Date:</b>
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**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 01/04/23

**DAILY HEALTH CHECKLIST**

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

**REMEDIAL ACTIVITIES AT PROPERTIES**

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If Yes to <u>any</u> of 1-4 above:		
<ul style="list-style-type: none"> <li>If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.</li> <li>If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.</li> </ul>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		

**DAILY INSPECTION REPORT**

Report No. \_\_\_\_\_ (Site Name) - NYSDEC Site No. 130072

Date: 01/04/23

**NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were there any odors detected on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Was noise outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were vibration readings outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible dust observed beyond the work perimeter on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was turbidity checked at the Montauk Highway outfall?	AM <input type="checkbox"/>	PM <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was the temporary fabric structure closed at the end of the day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If yes, has Contractor been notified?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<u>Comments:</u>          			





**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

Equipment/Material Tracking Comments:

**Visitors to Site**

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No

**Site Representatives**

Name	Representing

**Project Schedule Comments**

**Issues Pending**

**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

Interaction with Public, Property Owners, Media, etc.

**Include (insert) figures with markups showing location of work and job progress**

**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

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**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

**Site Photographs (Descriptions Below)**



Ceiling repainting in 2<sup>nd</sup> floor office

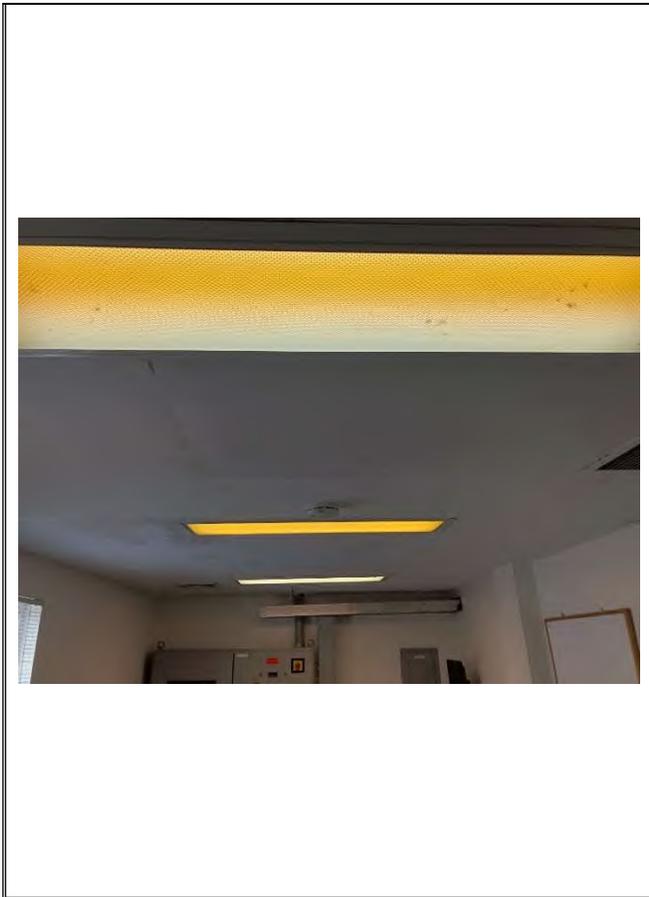


Ceiling repainting in 2<sup>nd</sup> floor office

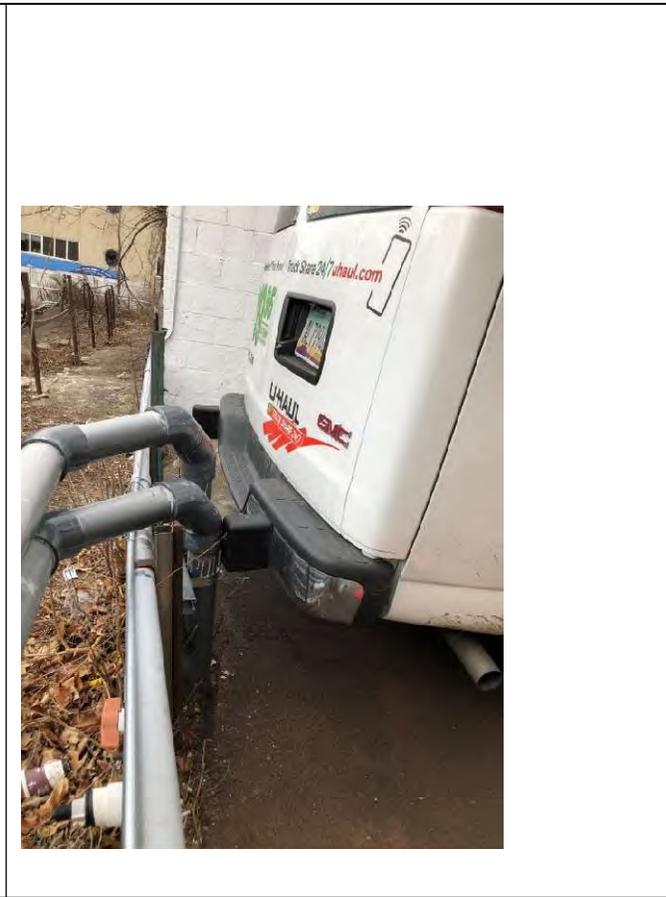
**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23



Ceiling repainting in 2<sup>nd</sup> floor office



Rental truck parked against SVE exterior piping

**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

	
<p>Rental truck parked against SVE exterior piping</p>	


**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23


**Comments**

--

**Site Inspector(s):**

**Date:**

# DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 02/15/23

## DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

## REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If Yes to <u>any</u> of 1-4 above:		
<ul style="list-style-type: none"> <li>If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.</li> <li>If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.</li> </ul>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		









**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

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**Include (insert) figures with markups showing location of work and job progress**

**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

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**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

Site Photographs (Descriptions Below)	
	
<p>Carbon unit and neighborhood parking</p>	<p>PSEG collections noticed - paid</p>



**DAILY INSPECTION REPORT**

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

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<b>Site Inspector(s):</b>	<b>Date:</b>
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# DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

## DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

## REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If Yes to <u>any</u> of 1-4 above:		
<ul style="list-style-type: none"> <li>If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.</li> <li>If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.</li> </ul>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		

**DAILY INSPECTION REPORT**

Report No. \_\_\_\_\_ (Site Name) - NYSDEC Site No. 130072

Date: 03/15/23

**NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were there any odors detected on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Was noise outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were vibration readings outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible dust observed beyond the work perimeter on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was turbidity checked at the Montauk Highway outfall?	AM <input type="checkbox"/>	PM <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was the temporary fabric structure closed at the end of the day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If yes, has Contractor been notified?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<u>Comments:</u>          			

# APPENDIX B

## SVE System Operation and Maintenance Reports

Stanton Cleaners Area Superfund Site  
 Soil Vapor Extraction System  
 Monthly Operations and Maintenance Data Log

Date: 1-4-2023  
 HRP #: Dec 10030m  
 Field Personnel: DJA, KG

Pump	Flow (GPM)	Valve Open	
			Data from Computer Screen System:
Total Gallons Treated			
Discharge Rate		System shut down	
Discharge Conductivity			
Discharge pH			
SVE Air Flow Rate (CFM)		display not working	

Visual Digital Readouts from Catwalk	
Discharge pH	
Discharge Temperature	
Discharge Conductivity	

Flow Meter Reading	
Flow Rate (GPM)	
Total Gallons	

meter display in 100 of gallons

Effluent Flow Meter Reading	
Flow Rate	
Total Gallons (GPH)	

Weather: 60°F partly cloudy

Notes:

Stanton Cleaners Area Superfund Site  
Soil Vapor Extraction System  
Monthly Air Monitoring Log

Date: 1-4-23  
HRP #: DEC 10030M

Pipe ID	FID						MultiRae					VelociCalc				
	VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.	Flow					
SVE Influent	5.709	3.4	0	20.9	0	0	64.5	14.0	74.0	58.0	22.04					
Post-Blower Pre-Carbon*	5.706	9.3	0	20.9	0	0	66.6	0.514	75.2	59.1	76.56					
EPA-SVE-1 (shallow)	1.913															
EPA-SVE-1 (medium)	1.913															
EPA-SVE-2 (shallow)	1.913															
EPA-SVE-2 (medium)	1.913															
SS-A	1.913															
SVE3A	1.913	pulling moisture														
SVE3B	1.913															
SVE1 Combined	1.913															
SVE2 Combined	1.913	0.1	0	20.9	0	0	68.1	8.2	70.7	63.1	76.35					
hSVE-1		16.8	0	20.9	0	0	66.2	10.0	69.7	53.6	52.5					
hSVE-2		27.3	0	20.9	0	0	70.9	12.0	69.9	52.7	2.07					
Background	N/A	0.0	0	20.9	0	0	60.0	—	84.0	55.0	—					

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 Combined	open	open
SVE-3	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)		
SS-A		
SS-B(B)		
SS-B(C)		
L1		
L2		
hSVE-1	open	open
hSVE-2	open	open

Blower off as result of high vac. level alarm  
Upon arrival  
restarted blower reduce VSD to 44.0 Hz  
reduce blower vac. to 25"

Sample SVE EFF 10:10A  
SVE INF 10:16A

Equipment Calibrated by: DJA Air Readings Collected by: DJA

FID - Flame Ionization Detector  
CO - Carbon Monoxide  
LEL - Lower Explosive Limit  
VOC - Volatile Organic Compounds  
H2S - Hydrogen Sulfide

Temperature - degrees F  
Vacuum Pressure - inches/H2O  
%RH - Relative Humidity  
Dew Point - degrees F  
Flow - cubic feet per minute (CFM)

\*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

**Stanton Cleaners Area Superfund Site  
Soil Vapor Extraction System  
Monthly Operations and Maintenance Data Log**

Date: 2-15-23  
 HRP #: DEC-10030m  
 Field Personnel: OJA, AJ

Pump	Flow (GPM)	Valve Open	
			<b>Data from Computer Screen System:</b>
Total Gallons Treated			
Discharge Rate			
Discharge Conductivity			
Discharge pH			
SVE Air Flow Rate (CFM)			

*System shut down*

*display not working*

Visual Digital Readouts from Catwalk
Discharge pH
Discharge Temperature
Discharge Conductivity

Flow Meter Reading
Flow Rate (GPM)
Total Gallons

meter display in 100 of gallons

Effluent Flow Meter Reading
Flow Rate
Total Gallons (GPH)

Weather: 46°

Stanton Cleaners Area Superfund Site  
Soil Vapor Extraction System  
Monthly Air Monitoring Log

Date: 2-15-23  
HRP #: 06010020m

	Pipe ID	FID	MultiRae					VelociCalc				
			VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.
SVE-Influent	5.709		1.5	0	20.9	0	0	52.3	15	48.6	32.5	18.24
Post-Blower Pre-Carbon*	5.706		2.7	0	20.9	0	0	52.3	0.562	50.4	30.0	95.59
EPA-SVE-1 (shallow)	1.913											
EPA-SVE-1 (medium)	1.913											
EPA-SVE-2 (shallow)	1.913											
EPA-SVE-2 (medium)	1.913											
SS-A	1.913											
SVE-3A	1.913		pulling moisture									
SVE-3B	1.913											
SVE-1 Combined	1.913											
SVE-2 Combined	1.913		0.0	0	20.9	0	0	48.5	8.1	52.0	31.2	77.76
hSVE-1			9.5	0	20.9	0	0	50.8	12	48.5	28.4	38.43
hSVE-2			4.2	0	20.9	0	0	48.7	12	51.1	29.9	26.57
Background	N/A		0.0	0	20.9	0	0	46		49.9	30.6	

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 Combined	open	open
SVE-3A	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)		
SS-A		
SS-B(B)		
SS-B(C)		
L1		
L2		
hSVE-1	open	open
hSVE-2	open	open

26" at blower  
44.0 Hz VSD  
bleed slightly open

sample SVE eff 8:05A  
SVE inf 8:15A

Equipment Calibrated by: OJA Air Readings Collected by: OJA

FID - Flame Ionization Detector  
CO - Carbon Monoxide  
LEL - Lower Explosive Limit  
VOC - Volatile Organic Compounds  
H2S - Hydrogen Sulfide

Temperature - degrees F  
Vacuum Pressure - inches/H2O  
%RH - Relative Humidity  
Dew Point - degrees F  
Flow - cubic feet per minute (CFM)

\*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

**Stanton Cleaners Area Superfund Site  
Soil Vapor Extraction System  
Monthly Operations and Maintenance Data Log**

Date: 3/15/23

HRP #: DEC1003.011

Field Personnel: RGB, CJC

Pump	Flow (GPM)	Valve Open	
			Data from Computer Screen System:
Total Gallons Treated	System shut down		
Discharge Rate			
Discharge Conductivity			
Discharge pH			
SVE Air Flow Rate (CFM)	Display not working		

Visual Digital Readouts from Catwalk
Discharge pH
Discharge Temperature
Discharge Conductivity

Flow Meter Reading
Flow Rate (GPM)
Total Gallons

meter display in 100 of gallons

Effluent Flow Meter Reading
Flow Rate
Total Gallons (GPH)

Weather: P. Sunny, Windy 34°F

Stanton Cleaners Area Superfund Site  
Soil Vapor Extraction System  
Monthly Air Monitoring Log

Date: 3/15/23  
HRP #: DEC1007011

	Pipe ID	MultiRae					VeloCalk					
		VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.	Flow
SVE Influent	5.709		0.0	0	20.9	0	0	50.7	14	68.4	40.5	18.88
Post-Blower Pre-Carbon*	5.706		6.6	0	20.9	0	0	48.8	0.57	29.3	49.2	28.71
EPA-SVE-1 (shallow)	1.913											
EPA-SVE-1 (medium)	1.913											
EPA-SVE-2 (shallow)	1.913											
EPA-SVE-2 (medium)	1.913											
SS-A	1.913											
SVE3A	1.913											
SVE3B	1.913											
SVE1 Combined	1.913											
SVE2 Combined	1.913		0.0	0	20.9	0	0	45.3	8.1	38.6	22.3	27.43
hSVE-1			0.0	0	20.9	0	0	47.1	10	83.0	42.8	39.61
hSVE-2			0.0	0	20.9	0	0	54.8		Pulling moisture		
Background	N/A		0.0	0	20.9	0	0	46.0		41.1	25.8	

25" at blower  
44.0 Hz VFD  
bleed slightly open

No air sampling.  
System running upon arrival

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 combined	open	open
SVE-3	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)		
SS-A		
SS-B(B)		
SS-B(C)		
L1		
L2		
hSVE-1	open	open
hSVE-2	open	open

Equipment Calibrated by: KG

Air Readings Collected by: KG

FID - Flame Ionization Detector  
CO - Carbon Monoxide  
LEL - Lower Explosive Limit  
VOC - Volatile Organic Compounds  
H2S - Hydrogen Sulfide

Temperature - degrees F  
Vacuum Pressure - inches/H2O  
%RH - Relative Humidity  
Dew Point - degrees F  
Flow - cubic feet per minute (CFM)

\*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

Fire Safety Inspection Log  
 Stanton Dry Cleaners Site  
 NYSDEC Site No. 130072  
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
1	Exit signs internally or externally illuminated	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2	Smoke alarms tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3	Water leaks/water damage observed inside building	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4	Fire extinguishers within expiration or inspected annually	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5	All fire extinguishers present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6	Electrical Breaker Panel Issues	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7	Covers present on all junction boxes, electrical switches, and outlets	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8	Any evidence of pests present inside building (rodents, insects, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9	Emergency lighting tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing <i>Removed</i>	Annual		
11	Battery powered emergency lighting tested	Annual	12/19/22	12/19/23
12	Fire Extinguishers annual inspection	Annual	5/14/22	5/14/23
13	Emergency Lighting Testing	Monthly	3/15/23	

Inspected By: *KA/CSC*

Inspection Date: *3/15/23*

Other Items Noted:

**Stanton Cleaners Area Superfund Site  
Water Level Data Summary**

Site: Stanton Cleaners Area Superfund Site

Date: 3-15-23

Location: 110 Cutter Mill Road, Great Neck, NY

Project #: DEC-1003.0M

Field Personnel: CIL, KG

Well ID	Depth to Water (feet)	Time (AM)	Notes
EPA-MW-11D	53.64	10:26	BHS
EPA-MW-21R	62.58	9:53	BHS
EPA-MW-23	60.81	9:50	BHS
EPA-MW-26	56.25	10:03	BHS
EPA-MW-27	47.33	10:14	BHS
EPA-MW-9A	58.89	10:23	
ST-MW-11	—	—	Under parked car
ST-MW-12	66.63	10:36	BHS
ST-MW-13	82.95	10:53	BHS
ST-MW-14	47.07	10:16	BHS, ponded water
ST-MW-15	69.67	10:48	BHS
ST-MW-16	52.65	9:59	BHS
ST-MW-17	65.88	10:34	BHS
ST-MW-18	64.63	10:41	
ST-MW-19	61.23	10:20	BHS
ST-MW-20	63.31	10:32	BHS

# APPENDIX C

## Laboratory Analytical Reports

January 12, 2023

Payson Long  
NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: 110 Cuttor Mill Rd, Great Neck, NY  
Client Job Number:  
Project Number: 130072  
Laboratory Work Order Number: 23A0669

Enclosed are results of analyses for samples as received by the laboratory on January 6, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy  
Project Manager

## Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
23A0669-01	6
23A0669-02	7
23A0669-03	8
23A0669-04	9
23A0669-05	10
23A0669-06	11
23A0669-07	12
23A0669-08	13
23A0669-09	14
23A0669-10	15
23A0669-11	16
23A0669-12	17
23A0669-13	18
23A0669-14	19
23A0669-15	20
23A0669-16	21
23A0669-17	22
23A0669-18	23
23A0669-19	24
Sample Preparation Information	25
QC Data	26
Volatile Organic Compounds by GC/MS	26

## Table of Contents (continued)

B328129	26
Flag/Qualifier Summary	29
Certifications	30
Chain of Custody/Sample Receipt	31

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

NYDEC\_HRP Associates, Inc. - Farmington, CT  
 197 Scott Swamp Road  
 Farmington, CT 06032  
 ATTN: Payson Long

REPORT DATE: 1/12/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 23A0669

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cuttor Mill Rd, Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EPA-MW-9A	23A0669-01	Ground Water		624.1	
EPA-MW-11D	23A0669-02	Ground Water		624.1	
EPA-MW-21R	23A0669-03	Ground Water		624.1	
EPA-MW-23	23A0669-04	Ground Water		624.1	
EPA-MW-26	23A0669-05	Ground Water		624.1	
EPA-MW-27	23A0669-06	Ground Water		624.1	
STA-MW-11	23A0669-07	Ground Water		624.1	
STA-MW-12	23A0669-08	Ground Water		624.1	
STA-MW-13	23A0669-09	Ground Water		624.1	
STA-MW-14	23A0669-10	Ground Water		624.1	
STA-MW-15	23A0669-11	Ground Water		624.1	
STA-MW-16	23A0669-12	Ground Water		624.1	
STA-MW-17	23A0669-13	Ground Water		624.1	
STA-MW-18	23A0669-14	Ground Water		624.1	
STA-MW-19	23A0669-15	Ground Water		624.1	
STA-MW-20	23A0669-16	Ground Water		624.1	
MW-100	23A0669-17	Ground Water		624.1	
MW-101	23A0669-18	Ground Water		624.1	
TB-1	23A0669-19	Ground Water		624.1	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

624.1

**Qualifications:**

**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

**Analyte & Samples(s) Qualified:**

**Vinyl Chloride**

B328129-BS1, B328129-BSD1

**R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

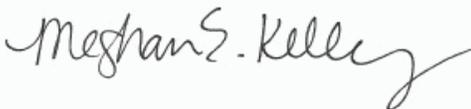
**Analyte & Samples(s) Qualified:**

**Bromomethane**

23A0669-01[EPA-MW-9A], 23A0669-02[EPA-MW-11D], 23A0669-03[EPA-MW-21R], 23A0669-04[EPA-MW-23], 23A0669-05[EPA-MW-26], 23A0669-06[EPA-MW-27], 23A0669-07[STA-MW-11], 23A0669-08[STA-MW-12], 23A0669-09[STA-MW-13], 23A0669-10[STA-MW-14], 23A0669-11[STA-MW-15], 23A0669-12[STA-MW-16], 23A0669-13[STA-MW-17], 23A0669-14[STA-MW-18], 23A0669-15[STA-MW-19], 23A0669-16[STA-MW-20], 23A0669-17[MW-100], 23A0669-18[MW-101], 23A0669-19[TB-1], B328129-BLK1, B328129-BS1, B328129-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-9A

Sampled: 1/4/2023 08:39

Sample ID: 23A0669-01

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/10/23 23:15	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Chloroform	0.210	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/10/23 23:15	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/10/23 23:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/10/23 23:15
Toluene-d8	103	70-130	1/10/23 23:15
4-Bromofluorobenzene	107	70-130	1/10/23 23:15

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-11D

Sampled: 1/4/2023 07:15

Sample ID: 23A0669-02

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/10/23 23:42	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Chloroform	0.380	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/10/23 23:42	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/10/23 23:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/10/23 23:42
Toluene-d8	102	70-130	1/10/23 23:42
4-Bromofluorobenzene	108	70-130	1/10/23 23:42

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-21R

Sampled: 1/4/2023 08:19

Sample ID: 23A0669-03

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 0:10	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Chloroform	0.170	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 0:10	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Tetrachloroethylene	15.1	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Trichloroethylene	0.320	2.00	0.189	µg/L	1	J	624.1	1/10/23	1/11/23 0:10	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 0:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 0:10
Toluene-d8	104	70-130	1/11/23 0:10
4-Bromofluorobenzene	106	70-130	1/11/23 0:10

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-23

Sampled: 1/4/2023 08:15

Sample ID: 23A0669-04

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 0:38	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Tetrachloroethylene	0.740	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 0:38	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 0:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	1/11/23 0:38
Toluene-d8	102	70-130	1/11/23 0:38
4-Bromofluorobenzene	108	70-130	1/11/23 0:38

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-26

Sampled: 1/4/2023 09:23

Sample ID: 23A0669-05

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 1:05	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Chloroform	0.190	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 1:05	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Tetrachloroethylene	0.700	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 1:05	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 1:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/11/23 1:05
Toluene-d8	103	70-130	1/11/23 1:05
4-Bromofluorobenzene	107	70-130	1/11/23 1:05

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: EPA-MW-27

Sampled: 1/4/2023 08:29

Sample ID: 23A0669-06

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 1:33	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Chloroform	0.190	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 1:33	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 1:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 1:33
Toluene-d8	103	70-130	1/11/23 1:33
4-Bromofluorobenzene	108	70-130	1/11/23 1:33

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-11

Sampled: 1/4/2023 07:19

Sample ID: 23A0669-07

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 2:01	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 2:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 2:01
Toluene-d8	103	70-130	1/11/23 2:01
4-Bromofluorobenzene	105	70-130	1/11/23 2:01

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-12

Sampled: 1/4/2023 08:51

Sample ID: 23A0669-08

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 2:28	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Chloroform	0.270	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 2:28	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Tetrachloroethylene	3.15	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 2:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/11/23 2:28
Toluene-d8	102	70-130	1/11/23 2:28
4-Bromofluorobenzene	107	70-130	1/11/23 2:28

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-13

Sampled: 1/4/2023 09:16

Sample ID: 23A0669-09

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 2:56	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Chloroform	0.790	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 2:56	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Tetrachloroethylene	0.400	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 2:56	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 2:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/11/23 2:56
Toluene-d8	104	70-130	1/11/23 2:56
4-Bromofluorobenzene	108	70-130	1/11/23 2:56

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-14

Sampled: 1/4/2023 08:24

Sample ID: 23A0669-10

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 3:24	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,1-Dichloroethylene	0.710	2.00	0.141	µg/L	1	J	624.1	1/10/23	1/11/23 3:24	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Tetrachloroethylene	0.370	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 3:24	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 3:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 3:24
Toluene-d8	103	70-130	1/11/23 3:24
4-Bromofluorobenzene	108	70-130	1/11/23 3:24

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-15

Sampled: 1/4/2023 09:08

Sample ID: 23A0669-11

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 3:52	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Chloroform	0.170	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 3:52	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Tetrachloroethylene	0.270	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 3:52	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 3:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	1/11/23 3:52
Toluene-d8	104	70-130	1/11/23 3:52
4-Bromofluorobenzene	108	70-130	1/11/23 3:52

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-16

Sampled: 1/4/2023 09:28

Sample ID: 23A0669-12

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 4:19	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Chloroform	0.200	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 4:19	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Tetrachloroethylene	0.890	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 4:19	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 4:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 4:19
Toluene-d8	102	70-130	1/11/23 4:19
4-Bromofluorobenzene	108	70-130	1/11/23 4:19

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-17

Sampled: 1/4/2023 08:48

Sample ID: 23A0669-13

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 4:47	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Tetrachloroethylene	0.300	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 4:47	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 4:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/11/23 4:47
Toluene-d8	103	70-130	1/11/23 4:47
4-Bromofluorobenzene	105	70-130	1/11/23 4:47

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-18

Sampled: 1/4/2023 08:57

Sample ID: 23A0669-14

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 5:15	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Chloroform	0.390	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 5:15	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,1-Dichloroethylene	0.650	2.00	0.141	µg/L	1	J	624.1	1/10/23	1/11/23 5:15	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Tetrachloroethylene	6.24	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Trichloroethylene	0.960	2.00	0.189	µg/L	1	J	624.1	1/10/23	1/11/23 5:15	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 5:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/11/23 5:15
Toluene-d8	103	70-130	1/11/23 5:15
4-Bromofluorobenzene	105	70-130	1/11/23 5:15

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-19

Sampled: 1/4/2023 08:34

Sample ID: 23A0669-15

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 5:43	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Methyl tert-Butyl Ether (MTBE)	0.200	2.00	0.172	µg/L	1	J	624.1	1/10/23	1/11/23 5:43	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Tetrachloroethylene	85.0	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Trichloroethylene	0.450	2.00	0.189	µg/L	1	J	624.1	1/10/23	1/11/23 5:43	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 5:43	EEH
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130						1/11/23 5:43	
Toluene-d8		102	70-130						1/11/23 5:43	
4-Bromofluorobenzene		106	70-130						1/11/23 5:43	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: STA-MW-20

Sampled: 1/4/2023 08:43

Sample ID: 23A0669-16

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 6:10	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Chloroform	0.230	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 6:10	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,1-Dichloroethylene	1.31	2.00	0.141	µg/L	1	J	624.1	1/10/23	1/11/23 6:10	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Tetrachloroethylene	1.09	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 6:10	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Trichloroethylene	0.440	2.00	0.189	µg/L	1	J	624.1	1/10/23	1/11/23 6:10	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 6:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	1/11/23 6:10
Toluene-d8	103	70-130	1/11/23 6:10
4-Bromofluorobenzene	105	70-130	1/11/23 6:10

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: MW-100

Sampled: 1/4/2023 07:16

Sample ID: 23A0669-17

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 6:38	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Chloroform	0.390	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 6:38	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 6:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	1/11/23 6:38
Toluene-d8	103	70-130	1/11/23 6:38
4-Bromofluorobenzene	106	70-130	1/11/23 6:38

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: MW-101

Sampled: 1/4/2023 09:17

Sample ID: 23A0669-18

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/11/23 7:06	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Chloroform	0.770	2.00	0.168	µg/L	1	J	624.1	1/10/23	1/11/23 7:06	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Tetrachloroethylene	0.420	2.00	0.187	µg/L	1	J	624.1	1/10/23	1/11/23 7:06	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/11/23 7:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	1/11/23 7:06
Toluene-d8	103	70-130	1/11/23 7:06
4-Bromofluorobenzene	106	70-130	1/11/23 7:06

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 110 Cuttor Mill Rd, Great Neck, N

Sample Description:

Work Order: 23A0669

Date Received: 1/6/2023

Field Sample #: TB-1

Sampled: 1/4/2023 08:10

Sample ID: 23A0669-19

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1	R-05	624.1	1/10/23	1/10/23 22:20	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Chloroform	2.42	2.00	0.168	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	1/10/23	1/10/23 22:20	EEH
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						1/10/23 22:20	
Toluene-d8		101	70-130						1/10/23 22:20	
4-Bromofluorobenzene		107	70-130						1/10/23 22:20	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**Sample Extraction Data****Prep Method: SW-846 5030B    Analytical Method: 624.1**

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [mL]</b>	<b>Final [mL]</b>	<b>Date</b>
23A0669-01 [EPA-MW-9A]	B328129	5	5.00	01/10/23
23A0669-02 [EPA-MW-11D]	B328129	5	5.00	01/10/23
23A0669-03 [EPA-MW-21R]	B328129	5	5.00	01/10/23
23A0669-04 [EPA-MW-23]	B328129	5	5.00	01/10/23
23A0669-05 [EPA-MW-26]	B328129	5	5.00	01/10/23
23A0669-06 [EPA-MW-27]	B328129	5	5.00	01/10/23
23A0669-07 [STA-MW-11]	B328129	5	5.00	01/10/23
23A0669-08 [STA-MW-12]	B328129	5	5.00	01/10/23
23A0669-09 [STA-MW-13]	B328129	5	5.00	01/10/23
23A0669-10 [STA-MW-14]	B328129	5	5.00	01/10/23
23A0669-11 [STA-MW-15]	B328129	5	5.00	01/10/23
23A0669-12 [STA-MW-16]	B328129	5	5.00	01/10/23
23A0669-13 [STA-MW-17]	B328129	5	5.00	01/10/23
23A0669-14 [STA-MW-18]	B328129	5	5.00	01/10/23
23A0669-15 [STA-MW-19]	B328129	5	5.00	01/10/23
23A0669-16 [STA-MW-20]	B328129	5	5.00	01/10/23
23A0669-17 [MW-100]	B328129	5	5.00	01/10/23
23A0669-18 [MW-101]	B328129	5	5.00	01/10/23
23A0669-19 [TB-1]	B328129	5	5.00	01/10/23

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B328129 - SW-846 5030B</b>										
<b>Blank (B328129-BLK1)</b>										
Prepared & Analyzed: 01/10/23										
Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							R-05
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.5		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	27.2		µg/L	25.0		109	70-130			
<b>LCS (B328129-BS1)</b>										
Prepared & Analyzed: 01/10/23										
Benzene	22	1.00	µg/L	20.0		110	65-135			
Bromodichloromethane	23	2.00	µg/L	20.0		117	65-135			
Bromoform	21	2.00	µg/L	20.0		103	70-130			
Bromomethane	11	2.00	µg/L	20.0		57.0	15-185			R-05
Carbon Tetrachloride	21	2.00	µg/L	20.0		104	70-130			
Chlorobenzene	21	2.00	µg/L	20.0		103	65-135			
Chlorodibromomethane	23	2.00	µg/L	20.0		117	70-135			
Chloroethane	22	2.00	µg/L	20.0		110	40-160			
Chloroform	23	2.00	µg/L	20.0		114	70-135			
Chloromethane	18	2.00	µg/L	20.0		91.9	20-205			
1,2-Dichlorobenzene	21	2.00	µg/L	20.0		105	65-135			
1,3-Dichlorobenzene	21	2.00	µg/L	20.0		103	70-130			
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		97.9	65-135			
1,2-Dichloroethane	23	2.00	µg/L	20.0		113	70-130			

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**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B328129 - SW-846 5030B</b>										
<b>LCS (B328129-BS1)</b>										
Prepared & Analyzed: 01/10/23										
1,1-Dichloroethane	24	2.00	µg/L	20.0		118	70-130			
1,1-Dichloroethylene	16	2.00	µg/L	20.0		79.6	50-150			
trans-1,2-Dichloroethylene	21	2.00	µg/L	20.0		107	70-130			
1,2-Dichloropropane	24	2.00	µg/L	20.0		122	35-165			
cis-1,3-Dichloropropene	25	2.00	µg/L	20.0		125	25-175			
trans-1,3-Dichloropropene	28	2.00	µg/L	20.0		138	50-150			
Ethylbenzene	22	2.00	µg/L	20.0		111	60-140			
Methyl tert-Butyl Ether (MTBE)	24	2.00	µg/L	20.0		121	70-130			
Methylene Chloride	16	5.00	µg/L	20.0		80.6	60-140			
1,1,2,2-Tetrachloroethane	22	2.00	µg/L	20.0		112	60-140			
Tetrachloroethylene	23	2.00	µg/L	20.0		116	70-130			
Toluene	23	1.00	µg/L	20.0		113	70-130			
1,1,1-Trichloroethane	23	2.00	µg/L	20.0		115	70-130			
1,1,2-Trichloroethane	25	2.00	µg/L	20.0		123	70-130			
Trichloroethylene	23	2.00	µg/L	20.0		116	65-135			
Trichlorofluoromethane (Freon 11)	21	2.00	µg/L	20.0		104	50-150			
<b>Vinyl Chloride</b>	62	2.00	µg/L	20.0		<b>310</b> *	5-195			L-02
m+p Xylene	44	2.00	µg/L	40.0		110	70-130			
o-Xylene	23	1.00	µg/L	20.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	27.1		µg/L	25.0		108	70-130			
<b>LCS Dup (B328129-BSD1)</b>										
Prepared & Analyzed: 01/10/23										
Benzene	22	1.00	µg/L	20.0		109	65-135	0.960	20	
Bromodichloromethane	24	2.00	µg/L	20.0		120	65-135	1.98	20	
Bromoform	20	2.00	µg/L	20.0		102	70-130	0.390	20	
Bromomethane	15	2.00	µg/L	20.0		72.8	15-185	<b>24.4</b> *	20	R-05
Carbon Tetrachloride	20	2.00	µg/L	20.0		101	70-130	2.77	20	
Chlorobenzene	21	2.00	µg/L	20.0		103	65-135	0.194	20	
Chlorodibromomethane	23	2.00	µg/L	20.0		115	70-135	1.43	20	
Chloroethane	22	2.00	µg/L	20.0		109	40-160	1.05	20	
Chloroform	23	2.00	µg/L	20.0		114	70-135	0.132	20	
Chloromethane	20	2.00	µg/L	20.0		97.7	20-205	6.12	20	
1,2-Dichlorobenzene	21	2.00	µg/L	20.0		106	65-135	1.28	20	
1,3-Dichlorobenzene	21	2.00	µg/L	20.0		103	70-130	0.145	20	
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		97.8	65-135	0.102	20	
1,2-Dichloroethane	22	2.00	µg/L	20.0		112	70-130	1.02	20	
1,1-Dichloroethane	24	2.00	µg/L	20.0		118	70-130	0.296	20	
1,1-Dichloroethylene	16	2.00	µg/L	20.0		82.2	50-150	3.22	20	
trans-1,2-Dichloroethylene	21	2.00	µg/L	20.0		103	70-130	3.61	20	
1,2-Dichloropropane	25	2.00	µg/L	20.0		123	35-165	0.733	20	
cis-1,3-Dichloropropene	25	2.00	µg/L	20.0		124	25-175	0.564	20	
trans-1,3-Dichloropropene	27	2.00	µg/L	20.0		136	50-150	1.97	20	
Ethylbenzene	22	2.00	µg/L	20.0		111	60-140	0.135	20	
Methyl tert-Butyl Ether (MTBE)	24	2.00	µg/L	20.0		122	70-130	0.0823	20	
Methylene Chloride	17	5.00	µg/L	20.0		82.8	60-140	2.82	20	
1,1,2,2-Tetrachloroethane	23	2.00	µg/L	20.0		115	60-140	3.04	20	
Tetrachloroethylene	23	2.00	µg/L	20.0		114	70-130	1.79	20	
Toluene	22	1.00	µg/L	20.0		112	70-130	1.02	20	
1,1,1-Trichloroethane	23	2.00	µg/L	20.0		113	70-130	1.93	20	
1,1,2-Trichloroethane	25	2.00	µg/L	20.0		127	70-130	3.84	20	

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**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B328129 - SW-846 5030B</b>										
<b>LCS Dup (B328129-BSD1)</b>										
Prepared & Analyzed: 01/10/23										
Trichloroethylene	23	2.00	µg/L	20.0		114	65-135	1.65	20	
Trichlorofluoromethane (Freon 11)	20	2.00	µg/L	20.0		102	50-150	1.31	20	
<b>Vinyl Chloride</b>	62	2.00	µg/L	20.0		<b>308</b> *	5-195	0.550	20	L-02
m+p Xylene	44	2.00	µg/L	40.0		110	70-130	0.182	25	
o-Xylene	23	1.00	µg/L	20.0		114	70-130	0.840	20	
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.0		99.5	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	27.5		µg/L	25.0		110	70-130			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>624.1 in Water</b>	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

23A0669



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Fax: 413-525-6405

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39 Spruce Street  
East Longmeadow, MA 01028

Doc # 381 Rev 5\_07/13/2021

Page 1 of 2

CHAIN OF CUSTODY RECORD

Access COC's and Support Requests

Company Name: <b>HRP Assoc Inc</b>	Requested Turnaround Time: 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> <b>6-Day <input checked="" type="checkbox"/></b>	Disolved Matrix Samples: <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter
Address: <b>697 South Swamp Rd Farmington, CT 06032</b>	Rush Approval Required: 1-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 4-Day <input type="checkbox"/>	Orthophosphate Samples: <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter
Project Name: <b>Stanton Cleaners</b>	Data Delivery: Format: PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> Other: <b>EQUIS</b>	<b>PCB ONLY</b>
Project Location: <b>110 Cotton Mill Rd, Great Neck, NY</b>	CLP Like Data Pkg Required: <input type="checkbox"/>	SOXHLET <input type="checkbox"/>
Project Number: <b>DEC10030M</b>	Email To: <b>END@HRPASSOCIATES.COM</b>	NON SOXHLET <input type="checkbox"/>
Project Manager: <b>DAVE FAJONSON</b>	Fax To #:	
Pace Quote Name/Number:		
Invoice Recipient: <b>HRP Assoc Inc NY DEC</b>		
Sampled By: <b>DJA KB</b>		

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	2 Preservation Code
1	EPA-MW-9A	1/4/23	8:39	G	GW	U	2					
2	EPA-MW-11d		7:15									
3	EPA-MW-21R		8:19									
4	EPA-MW-23		8:15									
5	EPA-MW-26		9:23									
6	EPA-MW-27		8:29									
7	STA-MW-11		7:19									
8	STA-MW-12		8:51									
9	STA-MW-13		9:16									
10	STA-MW-14		8:24									

Courier Use Only  
Total Number Of:  
VIALS \_\_\_\_\_  
GLASS \_\_\_\_\_  
PLASTIC \_\_\_\_\_  
BACTERIA \_\_\_\_\_  
ENCORE \_\_\_\_\_

Glassware in the fridge?  Y  N

Glassware in freezer?  Y  N

Prepackaged Cooler?  Y  N

\*Pace Analytical is not responsible for missing samples from prepacked coolers

1 Matrix Codes:  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

Relinquished by: (signature) *[Signature]* Date/Time: 1-6-23/8:50  
Received by: (signature) *[Signature]* Date/Time: 1-6-23 0850

Client Comments: Bill directly to NYDEC Great Neck 110 Site # 130072  
NYDEC Contact: Payson Long  
NYDEC CAT "B" Deliverables

Relinquished by: (signature) <i>[Signature]</i> Date/Time: 1-6-23/1530	Detection Limit Requirements: MA <input type="checkbox"/>	Special Requirements: MA MCP Required <input type="checkbox"/>	Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown
Received by: (signature) <i>[Signature]</i> Date/Time: 1/6/23 1530	CT <input type="checkbox"/>	MCP Certification Form Required <input type="checkbox"/>	
Relinquished by: (signature) _____ Date/Time: _____	Other: _____	CT RCP Required <input type="checkbox"/>	NELAC and AIHA-LAP, LLC Accredited
Received by: (signature) _____ Date/Time: _____	PWSID # _____	RCP Certification Form Required <input type="checkbox"/>	

2 Preservation Codes:  
1 = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium Bisulfate  
X = Sodium Hydroxide  
T = Sodium Thiosulfate  
O = Other (please define)

Relinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Entity: Government  Municipality  MWRA  WRTA   
Federal  21 J  School   
City  Brownfield  MBTA

Other:  Chromatogram  AIHA-LAP, LLC

Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

23A0669

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CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 2 of 2

Access CDC's and Support Requests

Company Name: **HRP Assoc Inc**  
Address: **197 Scott Swamp Rd**  
Phone: **JARMINSTON, CT 0632**  
Project Name: **STANTON Cleaners**  
Project Location: **110 CUTLER Hill Rd, Great Neck, NY**  
Project Number: **DEC10030M**  
Project Manager: **DAN FEINSON**  
Pace Quote Name/Number:  
Invoice Recipient: **NYDEC**  
Sampled By: **DJA, KB**

Requested Turnaround Time		Disposition of the Samples	
7-Day <input type="checkbox"/>	0-Day <input checked="" type="checkbox"/>	<input type="checkbox"/> Field Filtered	
PFAS 10-Day (std) <input type="checkbox"/>	Due Date:	<input type="checkbox"/> Lab to Filter	
Rush Approval/Expedited		Orthophosphate Samples	
1-Day <input type="checkbox"/>	3-Day <input type="checkbox"/>	<input type="checkbox"/> Field Filtered	
2-Day <input type="checkbox"/>	4-Day <input type="checkbox"/>	<input type="checkbox"/> Lab to Filter	
Data Delivery			
Format: PDF <input type="checkbox"/>	EXCEL <input type="checkbox"/>	<b>PCB ONLY</b>	
Other: <b>EQUS</b>		SOXHLET <input type="checkbox"/>	
CLP Like Data Pkg Required: <input type="checkbox"/>		NON SOXHLET <input type="checkbox"/>	
Email To: <b>EQUS@HAPASSOCIATES.COM</b>			
Fax To #:			

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
11	STA-MW-15	1/4/23	9:08	G		u	2				
12	STA-MW-16		9:28								
13	STA-MW-17		8:48								
14	STA-MW-18		8:57								
15	STA-MW-19		8:34								
16	STA-MW-20		8:43								
17	MW-100		7:16								
18	MW-101		9:17								
19	TB-1		8:10			C					

<sup>2</sup> Preservation Code

Courier Use Only  
Total Number Of:

VIALS \_\_\_\_\_  
GLASS \_\_\_\_\_  
PLASTIC \_\_\_\_\_  
BACTERIA \_\_\_\_\_  
ENCORE \_\_\_\_\_

Glassware in the fridge?  Y  N

Glassware in freezer?  Y  N

Prepackaged Cooler?  Y  N

\*Pace Analytical is not responsible for missing samples from prepacked coolers

<sup>1</sup> Matrix Codes:  
GW = Ground Water  
WW = Waste Water  
DW = Drinking Water  
A = Air  
S = Soil  
SL = Sludge  
SOL = Solid  
O = Other (please define)

<sup>2</sup> Preservation Codes:  
I = Iced  
H = HCL  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium Bisulfate  
X = Sodium Hydroxide  
T = Sodium Thiosulfate  
O = Other (please define)

Retinquished by: (signature) \_\_\_\_\_ Date/Time: 1/6/23/8:50

Received by: (signature) \_\_\_\_\_ Date/Time: 1-6-23 0850

Retinquished by: (signature) \_\_\_\_\_ Date/Time: 1-6-23/1530

Received by: (signature) \_\_\_\_\_ Date/Time: 1/6/1530

Retinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Retinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Client Comments: Bill directly to NYDEC Great Neck 110 Site # 130072  
NYDEC Contact: Payson Long  
NYDEC CAT "B" Deliverables

Detection Limit Requirements	Special Requirements
MA <input type="checkbox"/>	MA MCP Required <input type="checkbox"/>
MA <input type="checkbox"/>	MCP Certification Form Required <input type="checkbox"/>
MA <input type="checkbox"/>	CT RCP Required <input type="checkbox"/>
MA <input type="checkbox"/>	RCP Certification Form Required <input type="checkbox"/>
Other <input type="checkbox"/>	MA State DW Required <input type="checkbox"/>
PWSID #	NELAC and AIHA LAP, LLC Accredited

Project Entity

Government  Municipality  MWRA  WRTA

Federal  21 J  School

City  Brownfield  MBTA

Other  Chromatogram   
 AIHA-LAP, LLC

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

39 Spruce St.  
 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F: 413-525-6405  
 www.pacelabs.com

**Pace** PEOPLE ADVANCING SCIENCE  
 Doc# 277 Rev 6 July 2022

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client HRP  
 Received By [Signature] Date 1/6/23 Time 1530  
 How were the samples received? In Cooler T No Cooler \_\_\_\_\_ On Ice T No Ice \_\_\_\_\_  
 Direct From Sample \_\_\_\_\_ Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_  
 Were samples within Temperature? Within 2-6°C \_\_\_\_\_ By Gun # 5 Actual Temp - 2.4  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal In tact? NA Were Samples Tampered with? NO  
 Was COC Relinquished? T Does Chain Agree With Samples? T  
 Are there broken/leaking/loose caps on any samples? F  
 Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? \_\_\_\_\_  
 Project? T ID's? T Collection Dates/Times? T  
 Are Sample labels filled out and legible? T  
 Are there Lab to Filters? T

Are there Rushes? F Who was notified? \_\_\_\_\_  
 Are there Short Holds? F Who was notified? \_\_\_\_\_  
 Samples are received within holding time? F Who was notified? \_\_\_\_\_  
 Is there Headspace where applicable? F Is there enough Volume? T  
 Proper Media/Containers Used? T MS/MSD? F  
 Were trip blanks received? T splitting samples require? T  
 Do All Samples Have the proper pH? NA Acid NA Base NA

Unp-	1 Liter Amb.	1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.	500 mL Plastic	8oz Amb/Clear
Meoh-	250 mL Amb.	250 mL Plastic	4oz Amb/Clear
Bisulfate-	Col./Bacteria	Flashpoint	2oz Amb/Clear
DI-	Other Plastic	Other Glass	Encore
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:
Sulfuric-	Perchlorate	Ziplock	

Unp-	1 Liter Amb.	1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.	500 mL Plastic	8oz Amb/Clear
Meoh-	250 mL Amb.	250 mL Plastic	4oz Amb/Clear
Bisulfate-	Col./Bacteria	Flashpoint	2oz Amb/Clear
DI-	Other Plastic	Other Glass	Encore
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:
Sulfuric-	Perchlorate	Ziplock	

Comments:

January 18, 2023

Payson Long  
NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: 122 Cattermill Rd, Great Neck, NY  
Client Job Number:  
Project Number: 130072  
Laboratory Work Order Number: 23A0671

Enclosed are results of analyses for samples as received by the laboratory on January 6, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy  
Project Manager



QA Officer  
Katherine Allen



Laboratory Manager  
Daren Damboragian

NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032  
ATTN: Payson Long

REPORT DATE: 1/18/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 23A0671

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 122 Cattermill Rd, Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LIHA-IA1	23A0671-01	Indoor air		EPA TO-15	
LIHA-IA1 DUP	23A0671-02	Indoor air		EPA TO-15	
LIHA-IA2	23A0671-03	Indoor air		EPA TO-15	
LIHA-IA3	23A0671-04	Indoor air		EPA TO-15	
LIHA-OA1	23A0671-05	Ambient Air		EPA TO-15	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**EPA TO-15**

**Qualifications:**

---

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:**

**Ethanol**  
23A0671-01RE1[LIHA-IA1], 23A0671-02RE1[LIHA-IA1 DUP], 23A0671-03RE1[LIHA-IA2], 23A0671-04RE1[LIHA-IA3], B329065-BLK1, B329065-BS1

---

V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

**Analyte & Samples(s) Qualified:**

**Ethanol**  
23A0671-01RE1[LIHA-IA1], 23A0671-02RE1[LIHA-IA1 DUP], 23A0671-03RE1[LIHA-IA2], 23A0671-04RE1[LIHA-IA3], 23A0671-05[LIHA-OA1], B328767-BLK1, B328767-BS1, B329065-BLK1, B329065-BS1, S081920-CCV1, S082062-CCV1

---

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

**ANALYTICAL RESULTS**

 Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-1A1**  
**Sample ID: 23A0671-01**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:00

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 2227  
 Canister Size: 6 liter  
 Flow Controller ID: 3412  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -30  
 Final Vacuum(in Hg): -9  
 Receipt Vacuum(in Hg): -9.1  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time Analyzed	Analyst
	Results	RL	MDL		Results	RL	MDL			
Acetone	10	1.4	0.85		24	3.3	2.0	0.702	1/12/23 20:10	CMR
Benzene	0.28	0.035	0.027		0.89	0.11	0.085	0.702	1/12/23 20:10	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	1/12/23 20:10	CMR
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	1/12/23 20:10	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	1/12/23 20:10	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	1/12/23 20:10	CMR
1,3-Butadiene	0.072	0.035	0.029		0.16	0.078	0.065	0.702	1/12/23 20:10	CMR
2-Butanone (MEK)	0.73	1.4	0.37	J	2.2	4.1	1.1	0.702	1/12/23 20:10	CMR
Carbon Disulfide	0.053	0.35	0.032	J	0.17	1.1	0.10	0.702	1/12/23 20:10	CMR
Carbon Tetrachloride	0.062	0.035	0.028		0.39	0.22	0.18	0.702	1/12/23 20:10	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	1/12/23 20:10	CMR
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	1/12/23 20:10	CMR
Chloroform	0.036	0.035	0.033		0.17	0.17	0.16	0.702	1/12/23 20:10	CMR
Chloromethane	0.52	0.070	0.028		1.1	0.14	0.058	0.702	1/12/23 20:10	CMR
Cyclohexane	0.12	0.035	0.021		0.42	0.12	0.073	0.702	1/12/23 20:10	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	1/12/23 20:10	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	1/12/23 20:10	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	1/12/23 20:10	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	1/12/23 20:10	CMR
1,4-Dichlorobenzene	0.029	0.035	0.023	J	0.18	0.21	0.14	0.702	1/12/23 20:10	CMR
Dichlorodifluoromethane (Freon 12)	0.24	0.035	0.034		1.2	0.17	0.17	0.702	1/12/23 20:10	CMR
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	1/12/23 20:10	CMR
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	1/12/23 20:10	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	1/12/23 20:10	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	1/12/23 20:10	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	1/12/23 20:10	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	1/12/23 20:10	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 20:10	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 20:10	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	1/12/23 20:10	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	1/12/23 20:10	CMR
Ethanol	270	40	18	L-03, V-05	500	75	33	20	1/14/23 8:04	CMR
Ethyl Acetate	0.62	0.35	0.18		2.2	1.3	0.64	0.702	1/12/23 20:10	CMR
Ethylbenzene	0.094	0.035	0.020		0.41	0.15	0.089	0.702	1/12/23 20:10	CMR
4-Ethyltoluene	0.022	0.035	0.022	J	0.11	0.17	0.11	0.702	1/12/23 20:10	CMR
Heptane	0.17	0.035	0.022		0.69	0.14	0.092	0.702	1/12/23 20:10	CMR
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	1/12/23 20:10	CMR
Hexane	0.29	1.4	0.18	J	1.0	4.9	0.64	0.702	1/12/23 20:10	CMR
2-Hexanone (MBK)	0.10	0.035	0.018		0.43	0.14	0.072	0.702	1/12/23 20:10	CMR
Isopropanol	2.0	1.4	0.24		5.0	3.4	0.60	0.702	1/12/23 20:10	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	1/12/23 20:10	CMR
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	1/12/23 20:10	CMR
4-Methyl-2-pentanone (MIBK)	0.086	0.035	0.019		0.35	0.14	0.077	0.702	1/12/23 20:10	CMR
Naphthalene	0.052	0.035	0.026		0.27	0.18	0.14	0.702	1/12/23 20:10	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	1/12/23 20:10	CMR
Styrene	0.051	0.035	0.018		0.22	0.15	0.079	0.702	1/12/23 20:10	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	1/12/23 20:10	CMR

**ANALYTICAL RESULTS**

Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA1**  
**Sample ID: 23A0671-01**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:00

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 2227  
 Canister Size: 6 liter  
 Flow Controller ID: 3412  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -30  
 Final Vacuum(in Hg): -9  
 Receipt Vacuum(in Hg): -9.1  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.15	0.035	0.027		1.0	0.24	0.18	0.702	1/12/23 20:10	CMR	
Tetrahydrofuran	0.074	0.35	0.058	J	0.22	1.0	0.17	0.702	1/12/23 20:10	CMR	
Toluene	0.81	0.035	0.020		3.0	0.13	0.076	0.702	1/12/23 20:10	CMR	
1,2,4-Trichlorobenzene	ND	0.035	0.033		ND	0.26	0.24	0.702	1/12/23 20:10	CMR	
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	1/12/23 20:10	CMR	
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	1/12/23 20:10	CMR	
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	1/12/23 20:10	CMR	
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.79	0.23	0.702	1/12/23 20:10	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.058	0.14	0.039	J	0.44	1.1	0.30	0.702	1/12/23 20:10	CMR	
1,2,4-Trimethylbenzene	0.088	0.035	0.016		0.43	0.17	0.076	0.702	1/12/23 20:10	CMR	
1,3,5-Trimethylbenzene	0.029	0.035	0.019	J	0.14	0.17	0.091	0.702	1/12/23 20:10	CMR	
Vinyl Acetate	0.50	0.70	0.19	J	1.8	2.5	0.66	0.702	1/12/23 20:10	CMR	
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	1/12/23 20:10	CMR	
m&p-Xylene	0.26	0.070	0.039		1.1	0.30	0.17	0.702	1/12/23 20:10	CMR	
o-Xylene	0.10	0.035	0.018		0.45	0.15	0.078	0.702	1/12/23 20:10	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	113	70-130	1/14/23 8:04
4-Bromofluorobenzene (1)	112	70-130	1/12/23 20:10

**ANALYTICAL RESULTS**

 Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA1 DUP**  
**Sample ID: 23A0671-02**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:00

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1739  
 Canister Size: 6 liter  
 Flow Controller ID: 3542  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -29  
 Final Vacuum(in Hg): -6  
 Receipt Vacuum(in Hg): -8.6  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	9.4	1.4	0.85		22	3.3	2.0	0.702	1/12/23 20:57	CMR	
Benzene	0.28	0.035	0.027		0.91	0.11	0.085	0.702	1/12/23 20:57	CMR	
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	1/12/23 20:57	CMR	
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	1/12/23 20:57	CMR	
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	1/12/23 20:57	CMR	
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	1/12/23 20:57	CMR	
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	1/12/23 20:57	CMR	
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.702	1/12/23 20:57	CMR	
Carbon Disulfide	0.038	0.35	0.032	J	0.12	1.1	0.10	0.702	1/12/23 20:57	CMR	
Carbon Tetrachloride	0.051	0.035	0.028		0.32	0.22	0.18	0.702	1/12/23 20:57	CMR	
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	1/12/23 20:57	CMR	
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	1/12/23 20:57	CMR	
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	1/12/23 20:57	CMR	
Chloromethane	0.54	0.070	0.028		1.1	0.14	0.058	0.702	1/12/23 20:57	CMR	
Cyclohexane	0.083	0.035	0.021		0.29	0.12	0.073	0.702	1/12/23 20:57	CMR	
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	1/12/23 20:57	CMR	
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	1/12/23 20:57	CMR	
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	1/12/23 20:57	CMR	
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	1/12/23 20:57	CMR	
1,4-Dichlorobenzene	0.029	0.035	0.023	J	0.17	0.21	0.14	0.702	1/12/23 20:57	CMR	
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.034		1.1	0.17	0.17	0.702	1/12/23 20:57	CMR	
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	1/12/23 20:57	CMR	
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	1/12/23 20:57	CMR	
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	1/12/23 20:57	CMR	
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	1/12/23 20:57	CMR	
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	1/12/23 20:57	CMR	
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	1/12/23 20:57	CMR	
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 20:57	CMR	
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 20:57	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	1/12/23 20:57	CMR	
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	1/12/23 20:57	CMR	
Ethanol	270	40	18	L-03, V-05	520	75	33	20	1/14/23 8:44	CMR	
Ethyl Acetate	0.66	0.35	0.18		2.4	1.3	0.64	0.702	1/12/23 20:57	CMR	
Ethylbenzene	0.090	0.035	0.020		0.39	0.15	0.089	0.702	1/12/23 20:57	CMR	
4-Ethyltoluene	0.022	0.035	0.022	J	0.11	0.17	0.11	0.702	1/12/23 20:57	CMR	
Heptane	0.16	0.035	0.022		0.67	0.14	0.092	0.702	1/12/23 20:57	CMR	
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	1/12/23 20:57	CMR	
Hexane	0.30	1.4	0.18	J	1.0	4.9	0.64	0.702	1/12/23 20:57	CMR	
2-Hexanone (MBK)	0.053	0.035	0.018		0.22	0.14	0.072	0.702	1/12/23 20:57	CMR	
Isopropanol	2.0	1.4	0.24		5.0	3.4	0.60	0.702	1/12/23 20:57	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	1/12/23 20:57	CMR	
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	1/12/23 20:57	CMR	
4-Methyl-2-pentanone (MIBK)	0.079	0.035	0.019		0.32	0.14	0.077	0.702	1/12/23 20:57	CMR	
Naphthalene	0.042	0.035	0.026		0.22	0.18	0.14	0.702	1/12/23 20:57	CMR	
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	1/12/23 20:57	CMR	
Styrene	0.052	0.035	0.018		0.22	0.15	0.079	0.702	1/12/23 20:57	CMR	
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	1/12/23 20:57	CMR	

**ANALYTICAL RESULTS**

Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA1 DUP**  
**Sample ID: 23A0671-02**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:00

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1739  
 Canister Size: 6 liter  
 Flow Controller ID: 3542  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -29  
 Final Vacuum(in Hg): -6  
 Receipt Vacuum(in Hg): -8.6  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.15	0.035	0.027		1.0	0.24	0.18	0.702	1/12/23 20:57	CMR	
Tetrahydrofuran	0.093	0.35	0.058	J	0.27	1.0	0.17	0.702	1/12/23 20:57	CMR	
Toluene	0.83	0.035	0.020		3.1	0.13	0.076	0.702	1/12/23 20:57	CMR	
1,2,4-Trichlorobenzene	ND	0.035	0.033		ND	0.26	0.24	0.702	1/12/23 20:57	CMR	
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	1/12/23 20:57	CMR	
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	1/12/23 20:57	CMR	
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	1/12/23 20:57	CMR	
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.79	0.23	0.702	1/12/23 20:57	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.064	0.14	0.039	J	0.49	1.1	0.30	0.702	1/12/23 20:57	CMR	
1,2,4-Trimethylbenzene	0.083	0.035	0.016		0.41	0.17	0.076	0.702	1/12/23 20:57	CMR	
1,3,5-Trimethylbenzene	0.025	0.035	0.019	J	0.12	0.17	0.091	0.702	1/12/23 20:57	CMR	
Vinyl Acetate	0.44	0.70	0.19	J	1.6	2.5	0.66	0.702	1/12/23 20:57	CMR	
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	1/12/23 20:57	CMR	
m&p-Xylene	0.26	0.070	0.039		1.1	0.30	0.17	0.702	1/12/23 20:57	CMR	
o-Xylene	0.10	0.035	0.018		0.44	0.15	0.078	0.702	1/12/23 20:57	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	112	70-130	1/14/23 8:44
4-Bromofluorobenzene (1)	112	70-130	1/12/23 20:57

**ANALYTICAL RESULTS**

 Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA2**  
**Sample ID: 23A0671-03**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:01

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1204  
 Canister Size: 6 liter  
 Flow Controller ID: 3732  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -10.5  
 Receipt Vacuum(in Hg): -10.7  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	12	1.4	0.84		28	3.3	2.0	0.696	1/12/23 22:03	CMR	
Benzene	0.28	0.035	0.026		0.90	0.11	0.084	0.696	1/12/23 22:03	CMR	
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.696	1/12/23 22:03	CMR	
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.696	1/12/23 22:03	CMR	
Bromoform	ND	0.035	0.024		ND	0.36	0.24	0.696	1/12/23 22:03	CMR	
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.696	1/12/23 22:03	CMR	
1,3-Butadiene	0.060	0.035	0.029		0.13	0.077	0.065	0.696	1/12/23 22:03	CMR	
2-Butanone (MEK)	0.69	1.4	0.37	J	2.0	4.1	1.1	0.696	1/12/23 22:03	CMR	
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.696	1/12/23 22:03	CMR	
Carbon Tetrachloride	0.047	0.035	0.028		0.30	0.22	0.17	0.696	1/12/23 22:03	CMR	
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.696	1/12/23 22:03	CMR	
Chloroethane	0.042	0.035	0.031		0.11	0.092	0.081	0.696	1/12/23 22:03	CMR	
Chloroform	0.069	0.035	0.033		0.34	0.17	0.16	0.696	1/12/23 22:03	CMR	
Chloromethane	0.57	0.070	0.028		1.2	0.14	0.057	0.696	1/12/23 22:03	CMR	
Cyclohexane	0.12	0.035	0.021		0.40	0.12	0.072	0.696	1/12/23 22:03	CMR	
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	1/12/23 22:03	CMR	
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.696	1/12/23 22:03	CMR	
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.696	1/12/23 22:03	CMR	
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.696	1/12/23 22:03	CMR	
1,4-Dichlorobenzene	0.042	0.035	0.023		0.26	0.21	0.14	0.696	1/12/23 22:03	CMR	
Dichlorodifluoromethane (Freon 12)	0.22	0.035	0.034		1.1	0.17	0.17	0.696	1/12/23 22:03	CMR	
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.696	1/12/23 22:03	CMR	
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.696	1/12/23 22:03	CMR	
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	1/12/23 22:03	CMR	
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.696	1/12/23 22:03	CMR	
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	1/12/23 22:03	CMR	
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.696	1/12/23 22:03	CMR	
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.696	1/12/23 22:03	CMR	
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.696	1/12/23 22:03	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.696	1/12/23 22:03	CMR	
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.696	1/12/23 22:03	CMR	
Ethanol	580	82	36	L-03, V-05	1100	150	68	40.9	1/14/23 9:36	CMR	
Ethyl Acetate	0.47	0.35	0.18		1.7	1.3	0.63	0.696	1/12/23 22:03	CMR	
Ethylbenzene	0.095	0.035	0.020		0.41	0.15	0.088	0.696	1/12/23 22:03	CMR	
4-Ethyltoluene	0.028	0.035	0.021	J	0.14	0.17	0.11	0.696	1/12/23 22:03	CMR	
Heptane	0.23	0.035	0.022		0.95	0.14	0.091	0.696	1/12/23 22:03	CMR	
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.696	1/12/23 22:03	CMR	
Hexane	0.31	1.4	0.18	J	1.1	4.9	0.64	0.696	1/12/23 22:03	CMR	
2-Hexanone (MBK)	0.076	0.035	0.017		0.31	0.14	0.071	0.696	1/12/23 22:03	CMR	
Isopropanol	4.8	1.4	0.24		12	3.4	0.59	0.696	1/12/23 22:03	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.696	1/12/23 22:03	CMR	
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.56	0.696	1/12/23 22:03	CMR	
4-Methyl-2-pentanone (MIBK)	0.090	0.035	0.019		0.37	0.14	0.076	0.696	1/12/23 22:03	CMR	
Naphthalene	0.028	0.035	0.026	J	0.15	0.18	0.14	0.696	1/12/23 22:03	CMR	
Propene	ND	1.4	0.31		ND	2.4	0.53	0.696	1/12/23 22:03	CMR	
Styrene	0.083	0.035	0.018		0.35	0.15	0.078	0.696	1/12/23 22:03	CMR	
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.696	1/12/23 22:03	CMR	

**ANALYTICAL RESULTS**

Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA2**  
**Sample ID: 23A0671-03**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:01

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1204  
 Canister Size: 6 liter  
 Flow Controller ID: 3732  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -10.5  
 Receipt Vacuum(in Hg): -10.7  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	Results	ppbv		Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
		RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.31	0.035	0.027		2.1	0.24	0.18	0.696	1/12/23 22:03	CMR	
Tetrahydrofuran	0.19	0.35	0.057	J	0.55	1.0	0.17	0.696	1/12/23 22:03	CMR	
Toluene	0.74	0.035	0.020		2.8	0.13	0.075	0.696	1/12/23 22:03	CMR	
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.696	1/12/23 22:03	CMR	
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.696	1/12/23 22:03	CMR	
1,1,2-Trichloroethane	ND	0.035	0.024		ND	0.19	0.13	0.696	1/12/23 22:03	CMR	
Trichloroethylene	ND	0.035	0.023		ND	0.19	0.13	0.696	1/12/23 22:03	CMR	
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.78	0.23	0.696	1/12/23 22:03	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.14	0.039	J	0.52	1.1	0.30	0.696	1/12/23 22:03	CMR	
1,2,4-Trimethylbenzene	0.12	0.035	0.015		0.57	0.17	0.076	0.696	1/12/23 22:03	CMR	
1,3,5-Trimethylbenzene	0.036	0.035	0.018		0.18	0.17	0.090	0.696	1/12/23 22:03	CMR	
Vinyl Acetate	0.49	0.70	0.19	J	1.7	2.5	0.66	0.696	1/12/23 22:03	CMR	
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.696	1/12/23 22:03	CMR	
m&p-Xylene	0.27	0.070	0.039		1.2	0.30	0.17	0.696	1/12/23 22:03	CMR	
o-Xylene	0.11	0.035	0.018		0.46	0.15	0.077	0.696	1/12/23 22:03	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	111	70-130	1/12/23 22:03
4-Bromofluorobenzene (1)	112	70-130	1/14/23 9:36

**ANALYTICAL RESULTS**

 Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA3**  
**Sample ID: 23A0671-04**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:01

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1828  
 Canister Size: 6 liter  
 Flow Controller ID: 3489  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -30  
 Final Vacuum(in Hg): -9  
 Receipt Vacuum(in Hg): -9.3  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	9.4	1.4	0.85		22	3.3	2.0	0.702	1/12/23 23:08	CMR	
Benzene	0.28	0.035	0.027		0.89	0.11	0.085	0.702	1/12/23 23:08	CMR	
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	1/12/23 23:08	CMR	
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	1/12/23 23:08	CMR	
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	1/12/23 23:08	CMR	
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	1/12/23 23:08	CMR	
1,3-Butadiene	0.069	0.035	0.029		0.15	0.078	0.065	0.702	1/12/23 23:08	CMR	
2-Butanone (MEK)	0.48	1.4	0.37	J	1.4	4.1	1.1	0.702	1/12/23 23:08	CMR	
Carbon Disulfide	0.035	0.35	0.032	J	0.11	1.1	0.10	0.702	1/12/23 23:08	CMR	
Carbon Tetrachloride	0.064	0.035	0.028		0.40	0.22	0.18	0.702	1/12/23 23:08	CMR	
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	1/12/23 23:08	CMR	
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	1/12/23 23:08	CMR	
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	1/12/23 23:08	CMR	
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.058	0.702	1/12/23 23:08	CMR	
Cyclohexane	0.11	0.035	0.021		0.38	0.12	0.073	0.702	1/12/23 23:08	CMR	
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	1/12/23 23:08	CMR	
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	1/12/23 23:08	CMR	
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	1/12/23 23:08	CMR	
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	1/12/23 23:08	CMR	
1,4-Dichlorobenzene	0.029	0.035	0.023	J	0.18	0.21	0.14	0.702	1/12/23 23:08	CMR	
Dichlorodifluoromethane (Freon 12)	0.23	0.035	0.034		1.1	0.17	0.17	0.702	1/12/23 23:08	CMR	
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	1/12/23 23:08	CMR	
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	1/12/23 23:08	CMR	
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	1/12/23 23:08	CMR	
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	1/12/23 23:08	CMR	
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	1/12/23 23:08	CMR	
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	1/12/23 23:08	CMR	
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 23:08	CMR	
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/12/23 23:08	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	1/12/23 23:08	CMR	
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	1/12/23 23:08	CMR	
Ethanol	320	40	18	L-03, V-05	590	75	33	20	1/14/23 10:30	CMR	
Ethyl Acetate	0.42	0.35	0.18		1.5	1.3	0.64	0.702	1/12/23 23:08	CMR	
Ethylbenzene	0.090	0.035	0.020		0.39	0.15	0.089	0.702	1/12/23 23:08	CMR	
4-Ethyltoluene	0.022	0.035	0.022	J	0.11	0.17	0.11	0.702	1/12/23 23:08	CMR	
Heptane	0.16	0.035	0.022		0.66	0.14	0.092	0.702	1/12/23 23:08	CMR	
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	1/12/23 23:08	CMR	
Hexane	0.28	1.4	0.18	J	1.0	4.9	0.64	0.702	1/12/23 23:08	CMR	
2-Hexanone (MBK)	0.058	0.035	0.018		0.24	0.14	0.072	0.702	1/12/23 23:08	CMR	
Isopropanol	2.0	1.4	0.24		4.9	3.4	0.60	0.702	1/12/23 23:08	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	1/12/23 23:08	CMR	
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	1/12/23 23:08	CMR	
4-Methyl-2-pentanone (MIBK)	0.065	0.035	0.019		0.27	0.14	0.077	0.702	1/12/23 23:08	CMR	
Naphthalene	0.041	0.035	0.026		0.21	0.18	0.14	0.702	1/12/23 23:08	CMR	
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	1/12/23 23:08	CMR	
Styrene	0.049	0.035	0.018		0.21	0.15	0.079	0.702	1/12/23 23:08	CMR	
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	1/12/23 23:08	CMR	

**ANALYTICAL RESULTS**

Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-IA3**  
**Sample ID: 23A0671-04**  
 Sample Matrix: Indoor air  
 Sampled: 1/5/2023 08:01

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1828  
 Canister Size: 6 liter  
 Flow Controller ID: 3489  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -30  
 Final Vacuum(in Hg): -9  
 Receipt Vacuum(in Hg): -9.3  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.13	0.035	0.027		0.90	0.24	0.18	0.702	1/12/23 23:08	CMR	
Tetrahydrofuran	0.084	0.35	0.058	J	0.25	1.0	0.17	0.702	1/12/23 23:08	CMR	
Toluene	0.74	0.035	0.020		2.8	0.13	0.076	0.702	1/12/23 23:08	CMR	
1,2,4-Trichlorobenzene	ND	0.035	0.033		ND	0.26	0.24	0.702	1/12/23 23:08	CMR	
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	1/12/23 23:08	CMR	
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	1/12/23 23:08	CMR	
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	1/12/23 23:08	CMR	
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.041		1.2	0.79	0.23	0.702	1/12/23 23:08	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.057	0.14	0.039	J	0.44	1.1	0.30	0.702	1/12/23 23:08	CMR	
1,2,4-Trimethylbenzene	0.10	0.035	0.016		0.49	0.17	0.076	0.702	1/12/23 23:08	CMR	
1,3,5-Trimethylbenzene	0.024	0.035	0.019	J	0.12	0.17	0.091	0.702	1/12/23 23:08	CMR	
Vinyl Acetate	0.38	0.70	0.19	J	1.3	2.5	0.66	0.702	1/12/23 23:08	CMR	
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	1/12/23 23:08	CMR	
m&p-Xylene	0.26	0.070	0.039		1.1	0.30	0.17	0.702	1/12/23 23:08	CMR	
o-Xylene	0.095	0.035	0.018		0.41	0.15	0.078	0.702	1/12/23 23:08	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	111	70-130	1/14/23 10:30
4-Bromofluorobenzene (1)	110	70-130	1/12/23 23:08

**ANALYTICAL RESULTS**

 Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-OA1**  
**Sample ID: 23A0671-05**  
 Sample Matrix: Ambient Air  
 Sampled: 1/5/2023 08:03

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 9013  
 Canister Size: 6 liter  
 Flow Controller ID: 3731  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -10  
 Receipt Vacuum(in Hg): -8.9  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	10	1.4	0.85		24	3.3	2.0	0.702	1/13/23	0:14	CMR
Benzene	0.25	0.035	0.027		0.80	0.11	0.085	0.702	1/13/23	0:14	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	1/13/23	0:14	CMR
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	1/13/23	0:14	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	1/13/23	0:14	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	1/13/23	0:14	CMR
1,3-Butadiene	0.052	0.035	0.029		0.11	0.078	0.065	0.702	1/13/23	0:14	CMR
2-Butanone (MEK)	0.52	1.4	0.37	J	1.5	4.1	1.1	0.702	1/13/23	0:14	CMR
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	1/13/23	0:14	CMR
Carbon Tetrachloride	0.059	0.035	0.028		0.37	0.22	0.18	0.702	1/13/23	0:14	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	1/13/23	0:14	CMR
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	1/13/23	0:14	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	1/13/23	0:14	CMR
Chloromethane	0.54	0.070	0.028		1.1	0.14	0.058	0.702	1/13/23	0:14	CMR
Cyclohexane	0.074	0.035	0.021		0.25	0.12	0.073	0.702	1/13/23	0:14	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	1/13/23	0:14	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	1/13/23	0:14	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	1/13/23	0:14	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	1/13/23	0:14	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	1/13/23	0:14	CMR
Dichlorodifluoromethane (Freon 12)	0.25	0.035	0.034		1.2	0.17	0.17	0.702	1/13/23	0:14	CMR
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	1/13/23	0:14	CMR
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	1/13/23	0:14	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	1/13/23	0:14	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	1/13/23	0:14	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	1/13/23	0:14	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	1/13/23	0:14	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/13/23	0:14	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	1/13/23	0:14	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	1/13/23	0:14	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	1/13/23	0:14	CMR
Ethanol	5.2	1.4	0.62	V-05	9.8	2.6	1.2	0.702	1/13/23	0:14	CMR
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	1/13/23	0:14	CMR
Ethylbenzene	0.072	0.035	0.020		0.31	0.15	0.089	0.702	1/13/23	0:14	CMR
4-Ethyltoluene	ND	0.035	0.022		ND	0.17	0.11	0.702	1/13/23	0:14	CMR
Heptane	0.35	0.035	0.022		1.4	0.14	0.092	0.702	1/13/23	0:14	CMR
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	1/13/23	0:14	CMR
Hexane	0.34	1.4	0.18	J	1.2	4.9	0.64	0.702	1/13/23	0:14	CMR
2-Hexanone (MBK)	0.074	0.035	0.018		0.30	0.14	0.072	0.702	1/13/23	0:14	CMR
Isopropanol	0.75	1.4	0.24	J	1.8	3.4	0.60	0.702	1/13/23	0:14	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	1/13/23	0:14	CMR
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	1/13/23	0:14	CMR
4-Methyl-2-pentanone (MIBK)	0.041	0.035	0.019		0.17	0.14	0.077	0.702	1/13/23	0:14	CMR
Naphthalene	ND	0.035	0.026		ND	0.18	0.14	0.702	1/13/23	0:14	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	1/13/23	0:14	CMR
Styrene	ND	0.035	0.018		ND	0.15	0.079	0.702	1/13/23	0:14	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	1/13/23	0:14	CMR

**ANALYTICAL RESULTS**

Project Location: 122 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: LIHA-OA1**  
**Sample ID: 23A0671-05**  
 Sample Matrix: Ambient Air  
 Sampled: 1/5/2023 08:03

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 9013  
 Canister Size: 6 liter  
 Flow Controller ID: 3731  
 Sample Type: 24 hr

**Work Order: 23A0671**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -10  
 Receipt Vacuum(in Hg): -8.9  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.049	0.035	0.027		0.33	0.24	0.18	0.702	1/13/23 0:14	CMR	
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	1/13/23 0:14	CMR	
Toluene	1.2	0.035	0.020		4.4	0.13	0.076	0.702	1/13/23 0:14	CMR	
1,2,4-Trichlorobenzene	ND	0.035	0.033		ND	0.26	0.24	0.702	1/13/23 0:14	CMR	
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	1/13/23 0:14	CMR	
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	1/13/23 0:14	CMR	
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	1/13/23 0:14	CMR	
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.79	0.23	0.702	1/13/23 0:14	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039	J	0.48	1.1	0.30	0.702	1/13/23 0:14	CMR	
1,2,4-Trimethylbenzene	0.066	0.035	0.016		0.32	0.17	0.076	0.702	1/13/23 0:14	CMR	
1,3,5-Trimethylbenzene	ND	0.035	0.019		ND	0.17	0.091	0.702	1/13/23 0:14	CMR	
Vinyl Acetate	0.29	0.70	0.19	J	1.0	2.5	0.66	0.702	1/13/23 0:14	CMR	
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	1/13/23 0:14	CMR	
m&p-Xylene	0.21	0.070	0.039		0.90	0.30	0.17	0.702	1/13/23 0:14	CMR	
o-Xylene	0.079	0.035	0.018		0.34	0.15	0.078	0.702	1/13/23 0:14	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	114	70-130	1/13/23 0:14

**Sample Extraction Data**
**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23A0671-01 [LIHA-IA1]	B328767	1.5	1	N/A	1000	400	855	01/12/23
23A0671-02 [LIHA-IA1 DUP]	B328767	1.5	1	N/A	1000	400	855	01/12/23
23A0671-03 [LIHA-IA2]	B328767	1.74	1	N/A	1000	400	1000	01/12/23
23A0671-04 [LIHA-IA3]	B328767	1.5	1	N/A	1000	400	855	01/12/23
23A0671-05 [LIHA-OA1]	B328767	1.5	1	N/A	1000	400	855	01/12/23

**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23A0671-01RE1 [LIHA-IA1]	B329065	1.5	1	N/A	1000	400	30	01/13/23
23A0671-02RE1 [LIHA-IA1 DUP]	B329065	1.5	1	N/A	1000	400	30	01/13/23
23A0671-03RE1 [LIHA-IA2]	B329065	1.74	1	N/A	1000	400	17	01/13/23
23A0671-04RE1 [LIHA-IA3]	B329065	1.5	1	N/A	1000	400	30	01/13/23

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits			

**Batch B328767 - TO-15 Prep**
**Blank (B328767-BLK1)**

Prepared &amp; Analyzed: 01/12/23

Acetone	ND	1.4
Benzene	ND	0.035
Benzyl chloride	ND	0.035
Bromodichloromethane	ND	0.035
Bromoform	ND	0.035
Bromomethane	ND	0.035
1,3-Butadiene	ND	0.035
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.35
Carbon Tetrachloride	ND	0.035
Chlorobenzene	ND	0.035
Chloroethane	ND	0.035
Chloroform	ND	0.035
Chloromethane	ND	0.070
Cyclohexane	ND	0.035
Dibromochloromethane	ND	0.035
1,2-Dibromoethane (EDB)	ND	0.035
1,2-Dichlorobenzene	ND	0.035
1,3-Dichlorobenzene	ND	0.035
1,4-Dichlorobenzene	ND	0.035
Dichlorodifluoromethane (Freon 12)	ND	0.035
1,1-Dichloroethane	ND	0.035
1,2-Dichloroethane	ND	0.035
1,1-Dichloroethylene	ND	0.035
cis-1,2-Dichloroethylene	ND	0.035
trans-1,2-Dichloroethylene	ND	0.035
1,2-Dichloropropane	ND	0.035
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
Ethylbenzene	ND	0.035
4-Ethyltoluene	ND	0.035
Heptane	ND	0.035
Hexachlorobutadiene	ND	0.035
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.035
Isopropanol	ND	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.035
Methylene Chloride	ND	0.35
4-Methyl-2-pentanone (MIBK)	ND	0.035
Naphthalene	ND	0.035
Propene	ND	1.4
Styrene	ND	0.035

V-05

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

**Batch B328767 - TO-15 Prep**
**Blank (B328767-BLK1)**

Prepared &amp; Analyzed: 01/12/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
1,2,4-Trichlorobenzene	ND	0.035
1,1,1-Trichloroethane	ND	0.035
1,1,2-Trichloroethane	ND	0.035
Trichloroethylene	ND	0.035
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.035
1,3,5-Trimethylbenzene	ND	0.035
Vinyl Acetate	ND	0.70
Vinyl Chloride	ND	0.035
m&p-Xylene	ND	0.070
o-Xylene	ND	0.035

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.77</i>	<i>8.00</i>	<i>110</i>	<i>70-130</i>
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**LCS (B328767-BS1)**

Prepared &amp; Analyzed: 01/12/23

Acetone	4.69	5.00	93.9	70-130
Benzene	4.76	5.00	95.1	70-130
Benzyl chloride	5.13	5.00	103	70-130
Bromodichloromethane	4.63	5.00	92.7	70-130
Bromoform	5.17	5.00	103	70-130
Bromomethane	4.72	5.00	94.4	70-130
1,3-Butadiene	4.36	5.00	87.2	70-130
2-Butanone (MEK)	4.86	5.00	97.2	70-130
Carbon Disulfide	4.97	5.00	99.3	70-130
Carbon Tetrachloride	4.64	5.00	92.7	70-130
Chlorobenzene	4.51	5.00	90.1	70-130
Chloroethane	4.69	5.00	93.8	70-130
Chloroform	4.91	5.00	98.3	70-130
Chloromethane	4.36	5.00	87.3	70-130
Cyclohexane	4.78	5.00	95.7	70-130
Dibromochloromethane	4.84	5.00	96.9	70-130
1,2-Dibromoethane (EDB)	4.51	5.00	90.1	70-130
1,2-Dichlorobenzene	5.17	5.00	103	70-130
1,3-Dichlorobenzene	5.28	5.00	106	70-130
1,4-Dichlorobenzene	5.32	5.00	106	70-130
Dichlorodifluoromethane (Freon 12)	5.00	5.00	99.9	70-130
1,1-Dichloroethane	5.01	5.00	100	70-130
1,2-Dichloroethane	4.96	5.00	99.2	70-130
1,1-Dichloroethylene	5.10	5.00	102	70-130
cis-1,2-Dichloroethylene	4.86	5.00	97.1	70-130
trans-1,2-Dichloroethylene	4.88	5.00	97.5	70-130
1,2-Dichloropropane	4.79	5.00	95.8	70-130

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B328767 - TO-15 Prep</b>											
<b>LCS (B328767-BS1)</b>						Prepared & Analyzed: 01/12/23					
cis-1,3-Dichloropropene	4.63				5.00		92.6	70-130			
trans-1,3-Dichloropropene	4.73				5.00		94.7	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.47				5.00		89.5	70-130			
1,4-Dioxane	4.71				5.00		94.2	70-130			
Ethanol	3.56				5.00		71.2	70-130			V-05
Ethyl Acetate	5.02				5.00		100	70-130			
Ethylbenzene	4.72				5.00		94.5	70-130			
4-Ethyltoluene	5.10				5.00		102	70-130			
Heptane	4.80				5.00		95.9	70-130			
Hexachlorobutadiene	4.88				5.00		97.7	70-130			
Hexane	5.26				5.00		105	70-130			
2-Hexanone (MBK)	4.72				5.00		94.4	70-130			
Isopropanol	3.84				5.00		76.8	70-130			
Methyl tert-Butyl Ether (MTBE)	4.88				5.00		97.6	70-130			
Methylene Chloride	4.29				5.00		85.7	70-130			
4-Methyl-2-pentanone (MIBK)	4.77				5.00		95.3	70-130			
Naphthalene	5.23				5.00		105	70-130			
Propene	4.36				5.00		87.2	70-130			
Styrene	4.95				5.00		99.1	70-130			
1,1,2,2-Tetrachloroethane	4.52				5.00		90.5	70-130			
Tetrachloroethylene	4.80				5.00		95.9	70-130			
Tetrahydrofuran	5.12				5.00		102	70-130			
Toluene	4.58				5.00		91.5	70-130			
1,2,4-Trichlorobenzene	4.74				5.00		94.9	70-130			
1,1,1-Trichloroethane	4.49				5.00		89.8	70-130			
1,1,2-Trichloroethane	4.49				5.00		89.9	70-130			
Trichloroethylene	4.72				5.00		94.3	70-130			
Trichlorofluoromethane (Freon 11)	4.97				5.00		99.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.79				5.00		95.8	70-130			
1,2,4-Trimethylbenzene	5.10				5.00		102	70-130			
1,3,5-Trimethylbenzene	5.10				5.00		102	70-130			
Vinyl Acetate	3.86				5.00		77.2	70-130			
Vinyl Chloride	4.72				5.00		94.3	70-130			
m&p-Xylene	9.79				10.0		97.9	70-130			
o-Xylene	4.95				5.00		98.9	70-130			
Surrogate: 4-Bromofluorobenzene (1)	9.11				8.00		114	70-130			

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC Limits	RPD Limit	

**Batch B329065 - TO-15 Prep**
**Blank (B329065-BLK1)**

Prepared &amp; Analyzed: 01/13/23

Acetone	ND	1.4
Benzene	ND	0.035
Benzyl chloride	ND	0.035
Bromodichloromethane	ND	0.035
Bromoform	ND	0.035
Bromomethane	ND	0.035
1,3-Butadiene	ND	0.035
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.35
Carbon Tetrachloride	ND	0.035
Chlorobenzene	ND	0.035
Chloroethane	ND	0.035
Chloroform	ND	0.035
Chloromethane	ND	0.070
Cyclohexane	ND	0.035
Dibromochloromethane	ND	0.035
1,2-Dibromoethane (EDB)	ND	0.035
1,2-Dichlorobenzene	ND	0.035
1,3-Dichlorobenzene	ND	0.035
1,4-Dichlorobenzene	ND	0.035
Dichlorodifluoromethane (Freon 12)	ND	0.035
1,1-Dichloroethane	ND	0.035
1,2-Dichloroethane	ND	0.035
1,1-Dichloroethylene	ND	0.035
cis-1,2-Dichloroethylene	ND	0.035
trans-1,2-Dichloroethylene	ND	0.035
1,2-Dichloropropane	ND	0.035
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
Ethylbenzene	ND	0.035
4-Ethyltoluene	ND	0.035
Heptane	ND	0.035
Hexachlorobutadiene	ND	0.035
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.035
Isopropanol	ND	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.035
Methylene Chloride	ND	0.35
4-Methyl-2-pentanone (MIBK)	ND	0.035
Naphthalene	ND	0.035
Propene	ND	1.4
Styrene	ND	0.035

L-03, V-05

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

**Batch B329065 - TO-15 Prep**
**Blank (B329065-BLK1)**

Prepared &amp; Analyzed: 01/13/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
1,2,4-Trichlorobenzene	ND	0.035
1,1,1-Trichloroethane	ND	0.035
1,1,2-Trichloroethane	ND	0.035
Trichloroethylene	ND	0.035
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.035
1,3,5-Trimethylbenzene	ND	0.035
Vinyl Acetate	ND	0.70
Vinyl Chloride	ND	0.035
m&p-Xylene	ND	0.070
o-Xylene	ND	0.035

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>9.07</i>	<i>8.00</i>	<i>113</i>	<i>70-130</i>
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**LCS (B329065-BS1)**

Prepared &amp; Analyzed: 01/13/23

Acetone	4.67	5.00	93.4	70-130
Benzene	4.44	5.00	88.9	70-130
Benzyl chloride	4.90	5.00	97.9	70-130
Bromodichloromethane	4.32	5.00	86.4	70-130
Bromoform	5.04	5.00	101	70-130
Bromomethane	4.68	5.00	93.5	70-130
1,3-Butadiene	4.14	5.00	82.9	70-130
2-Butanone (MEK)	4.62	5.00	92.3	70-130
Carbon Disulfide	4.86	5.00	97.3	70-130
Carbon Tetrachloride	4.44	5.00	88.8	70-130
Chlorobenzene	4.38	5.00	87.7	70-130
Chloroethane	4.68	5.00	93.5	70-130
Chloroform	4.82	5.00	96.3	70-130
Chloromethane	4.24	5.00	84.8	70-130
Cyclohexane	4.53	5.00	90.7	70-130
Dibromochloromethane	4.64	5.00	92.9	70-130
1,2-Dibromoethane (EDB)	4.27	5.00	85.4	70-130
1,2-Dichlorobenzene	5.06	5.00	101	70-130
1,3-Dichlorobenzene	5.21	5.00	104	70-130
1,4-Dichlorobenzene	5.18	5.00	104	70-130
Dichlorodifluoromethane (Freon 12)	4.95	5.00	99.0	70-130
1,1-Dichloroethane	4.86	5.00	97.1	70-130
1,2-Dichloroethane	4.86	5.00	97.2	70-130
1,1-Dichloroethylene	4.97	5.00	99.4	70-130
cis-1,2-Dichloroethylene	4.62	5.00	92.3	70-130
trans-1,2-Dichloroethylene	4.64	5.00	92.8	70-130
1,2-Dichloropropane	4.46	5.00	89.1	70-130

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B329065 - TO-15 Prep</b>											
<b>LCS (B329065-BS1)</b>					Prepared & Analyzed: 01/13/23						
cis-1,3-Dichloropropene	4.29				5.00		85.8	70-130			
trans-1,3-Dichloropropene	4.37				5.00		87.5	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.46				5.00		89.2	70-130			
1,4-Dioxane	4.57				5.00		91.3	70-130			
Ethanol	3.47				5.00		<b>69.4</b> *	70-130			L-03, V-05
Ethyl Acetate	4.84				5.00		96.8	70-130			
Ethylbenzene	4.48				5.00		89.7	70-130			
4-Ethyltoluene	4.91				5.00		98.2	70-130			
Heptane	4.54				5.00		90.8	70-130			
Hexachlorobutadiene	4.95				5.00		99.1	70-130			
Hexane	5.03				5.00		101	70-130			
2-Hexanone (MBK)	4.29				5.00		85.8	70-130			
Isopropanol	3.69				5.00		73.7	70-130			
Methyl tert-Butyl Ether (MTBE)	4.69				5.00		93.9	70-130			
Methylene Chloride	4.16				5.00		83.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.36				5.00		87.1	70-130			
Naphthalene	5.07				5.00		101	70-130			
Propene	4.10				5.00		82.0	70-130			
Styrene	4.74				5.00		94.7	70-130			
1,1,2,2-Tetrachloroethane	4.27				5.00		85.5	70-130			
Tetrachloroethylene	4.67				5.00		93.4	70-130			
Tetrahydrofuran	4.99				5.00		99.9	70-130			
Toluene	4.38				5.00		87.5	70-130			
1,2,4-Trichlorobenzene	4.63				5.00		92.5	70-130			
1,1,1-Trichloroethane	4.24				5.00		84.8	70-130			
1,1,2-Trichloroethane	4.29				5.00		85.7	70-130			
Trichloroethylene	4.52				5.00		90.3	70-130			
Trichlorofluoromethane (Freon 11)	5.05				5.00		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.76				5.00		95.1	70-130			
1,2,4-Trimethylbenzene	4.89				5.00		97.8	70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.8	70-130			
Vinyl Acetate	3.65				5.00		72.9	70-130			
Vinyl Chloride	4.57				5.00		91.5	70-130			
m&p-Xylene	9.36				10.0		93.6	70-130			
o-Xylene	4.72				5.00		94.5	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>9.37</i>				<i>8.00</i>		<i>117</i>	<i>70-130</i>			

**Note: Blank Subtraction is not performed unless otherwise noted**

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m <sup>3</sup>	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

**ANALYST**

RJM Raymond J. McCarthy  
STATION PDF Management Station  
LR Lionel Rios  
KKM Kerry K. McGee  
CMR Catherine M. Rouleau  
BRF Brittany R. Fisk

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S076501-ICV1)</b>			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S081920-CCV1)</b>			Lab File ID: G23A012004.D			Analyzed: 01/12/23 13:38			
Bromochloromethane (1)	1165993	8.301	1165993	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2934630	10.075	2934630	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2689880	14.44	2689880	14.44	100	60 - 140	0.0000	+/-0.50	
<b>LCS (B328767-BS1)</b>			Lab File ID: G23A012005.D			Analyzed: 01/12/23 14:17			
Bromochloromethane (1)	1133566	8.307	1165993	8.301	97	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2827231	10.075	2934630	10.075	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2633407	14.44	2689880	14.44	98	60 - 140	0.0000	+/-0.50	
<b>Blank (B328767-BLK1)</b>			Lab File ID: G23A012010.D			Analyzed: 01/12/23 17:46			
Bromochloromethane (1)	1080363	8.307	1165993	8.301	93	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2625487	10.075	2934630	10.075	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2463152	14.44	2689880	14.44	92	60 - 140	0.0000	+/-0.50	
<b>LIHA-IA1 (23A0671-01)</b>			Lab File ID: G23A012013.D			Analyzed: 01/12/23 20:10			
Bromochloromethane (1)	1225597	8.307	1165993	8.301	105	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3029558	10.075	2934630	10.075	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2896205	14.44	2689880	14.44	108	60 - 140	0.0000	+/-0.50	
<b>LIHA-IA1 DUP (23A0671-02)</b>			Lab File ID: G23A012014.D			Analyzed: 01/12/23 20:57			
Bromochloromethane (1)	1216504	8.301	1165993	8.301	104	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2978415	10.075	2934630	10.075	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2821124	14.44	2689880	14.44	105	60 - 140	0.0000	+/-0.50	
<b>LIHA-IA2 (23A0671-03)</b>			Lab File ID: G23A012015.D			Analyzed: 01/12/23 22:03			
Bromochloromethane (1)	1214499	8.301	1165993	8.301	104	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2914537	10.075	2934630	10.075	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2790011	14.44	2689880	14.44	104	60 - 140	0.0000	+/-0.50	
<b>LIHA-IA3 (23A0671-04)</b>			Lab File ID: G23A012016.D			Analyzed: 01/12/23 23:08			
Bromochloromethane (1)	1191006	8.3	1165993	8.301	102	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2879192	10.075	2934630	10.075	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2756653	14.44	2689880	14.44	102	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>LIHA-OA1 (23A0671-05)</b>			Lab File ID: G23A012017.D			Analyzed: 01/13/23 00:14			
Bromochloromethane (1)	1246682	8.301	1165993	8.301	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3201614	10.075	2934630	10.075	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3026149	14.44	2689880	14.44	113	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S082062-CCV1)</b>			Lab File ID: G23A013003.D			Analyzed: 01/13/23 15:00			
Bromochloromethane (1)	1159997	8.307	1159997	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2858015	10.081	2858015	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2660760	14.446	2660760	14.446	100	60 - 140	0.0000	+/-0.50	
<b>LCS (B329065-BS1)</b>			Lab File ID: G23A013005.D			Analyzed: 01/13/23 16:21			
Bromochloromethane (1)	1219522	8.307	1159997	8.307	105	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3174975	10.075	2858015	10.081	111	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2945362	14.44	2660760	14.446	111	60 - 140	-0.0060	+/-0.50	
<b>Blank (B329065-BLK1)</b>			Lab File ID: G23A013008.D			Analyzed: 01/13/23 18:29			
Bromochloromethane (1)	1187490	8.313	1159997	8.307	102	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3001317	10.081	2858015	10.081	105	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2811369	14.446	2660760	14.446	106	60 - 140	0.0000	+/-0.50	
<b>LIHA-IA1 (23A0671-01RE1)</b>			Lab File ID: G23A013027.D			Analyzed: 01/14/23 08:04			
Bromochloromethane (1)	1143310	8.307	1159997	8.307	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2678333	10.075	2858015	10.081	94	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2524339	14.44	2660760	14.446	95	60 - 140	-0.0060	+/-0.50	
<b>LIHA-IA1 DUP (23A0671-02RE1)</b>			Lab File ID: G23A013028.D			Analyzed: 01/14/23 08:44			
Bromochloromethane (1)	1176802	8.307	1159997	8.307	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2852840	10.075	2858015	10.081	100	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2673488	14.44	2660760	14.446	100	60 - 140	-0.0060	+/-0.50	
<b>LIHA-IA2 (23A0671-03RE1)</b>			Lab File ID: G23A013029.D			Analyzed: 01/14/23 09:36			
Bromochloromethane (1)	1142764	8.301	1159997	8.307	99	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2788868	10.075	2858015	10.081	98	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2632031	14.44	2660760	14.446	99	60 - 140	-0.0060	+/-0.50	
<b>LIHA-IA3 (23A0671-04RE1)</b>			Lab File ID: G23A013030.D			Analyzed: 01/14/23 10:30			
Bromochloromethane (1)	1111446	8.301	1159997	8.307	96	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2660062	10.075	2858015	10.081	93	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2523752	14.44	2660760	14.446	95	60 - 140	-0.0060	+/-0.50	

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S081920-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.36	1.084004	0.944357		-12.9	30
Benzene	A	5.00	4.39	0.9129288	0.8008418		-12.3	30
Benzyl chloride	A	5.00	4.85	1.030942	1.00054		-2.9	30
Bromodichloromethane	A	5.00	4.29	0.6953811	0.5970432		-14.1	30
Bromoform	A	5.00	4.82	0.5656468	0.5450462		-3.6	30
Bromomethane	A	5.00	4.40	0.6009459	0.5293178		-11.9	30
1,3-Butadiene	A	5.00	4.14	0.5443004	0.4505372		-17.2	30
2-Butanone (MEK)	A	5.00	4.32	1.507683	1.302555		-13.6	30
Carbon Disulfide	A	5.00	4.43	2.02748	1.794987		-11.5	30
Carbon Tetrachloride	A	5.00	4.49	0.5479998	0.4924974		-10.1	30
Chlorobenzene	A	5.00	4.28	0.8809329	0.7536187		-14.5	30
Chloroethane	A	5.00	4.33	0.3452967	0.2989754		-13.4	30
Chloroform	A	5.00	4.50	1.561184	1.404185		-10.1	30
Chloromethane	A	5.00	4.01	0.6821899	0.5465995		-19.9	30
Cyclohexane	A	5.00	4.38	0.3600845	0.3155914		-12.4	30
Dibromochloromethane	A	5.00	4.58	0.6396581	0.5858504		-8.4	30
1,2-Dibromoethane (EDB)	A	5.00	4.28	0.6171207	0.5283709		-14.4	30
1,2-Dichlorobenzene	A	5.00	4.83	0.6937094	0.6705507		-3.3	30
1,3-Dichlorobenzene	A	5.00	4.98	0.7409581	0.7376751		-0.4	30
1,4-Dichlorobenzene	A	5.00	5.01	0.7218155	0.7226779		0.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.21	1.62808	1.370367		-15.8	30
1,1-Dichloroethane	A	5.00	4.55	1.342742	1.220818		-9.1	30
1,2-Dichloroethane	A	5.00	4.59	0.9627523	0.8834331		-8.2	30
1,1-Dichloroethylene	A	5.00	4.61	1.140142	1.051282		-7.8	30
cis-1,2-Dichloroethylene	A	5.00	4.46	0.9670963	0.862574		-10.8	30
trans-1,2-Dichloroethylene	A	5.00	4.46	1.001825	0.8943272		-10.7	30
1,2-Dichloropropane	A	5.00	4.36	0.3567989	0.3110787		-12.8	30
cis-1,3-Dichloropropene	A	5.00	4.36	0.5092852	0.4445568		-12.7	30
trans-1,3-Dichloropropene	A	5.00	4.32	0.4570981	0.3945956		-13.7	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.45	1.73998	1.548389		-11.0	30
1,4-Dioxane	A	5.00	4.09	0.1857641	0.1520115		-18.2	30
Ethanol	A	5.00	3.38	0.2343264	0.1585299		-32.3	30 *
Ethyl Acetate	A	5.00	4.70	0.2308163	0.2168699		-6.0	30
Ethylbenzene	A	5.00	4.49	1.455024	1.306399		-10.2	30
4-Ethyltoluene	A	5.00	4.77	1.413771	1.34814		-4.6	30
Heptane	A	5.00	4.46	0.2850308	0.2545586		-10.7	30
Hexachlorobutadiene	A	5.00	4.93	0.4677459	0.4608372		-1.5	30
Hexane	A	5.00	4.80	0.8985394	0.8101332		-4.0	30

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S081920-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.27	0.7712864	0.6585382		-14.6	30
Isopropanol	A	5.00	4.03	1.338902	1.080071		-19.3	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.57	1.834723	1.675586		-8.7	30
Methylene Chloride	A	5.00	3.90	0.9597215	0.7481664		-22.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.33	0.7726854	0.6690555		-13.4	30
Naphthalene	A	5.00	4.72	1.092246	1.031745		-5.5	30
Propene	A	5.00	4.14	0.5941328	0.4921772		-17.2	30
Styrene	A	5.00	4.61	0.7890752	0.7282311		-7.7	30
1,1,2,2-Tetrachloroethane	A	5.00	4.29	0.9851261	0.8456407		-14.2	30
Tetrachloroethylene	A	5.00	4.58	0.457194	0.4187613		-8.4	30
Tetrahydrofuran	A	5.00	4.52	0.2957092	0.2670314		-9.7	30
Toluene	A	5.00	4.30	1.15399	0.9915981		-14.1	30
1,2,4-Trichlorobenzene	A	5.00	4.60	0.4973623	0.4573664		-8.0	30
1,1,1-Trichloroethane	A	5.00	4.30	0.5975698	0.5137902		-14.0	30
1,1,2-Trichloroethane	A	5.00	4.16	0.4162703	0.3463072		-16.8	30
Trichloroethylene	A	5.00	4.28	0.3947958	0.3375859		-14.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.66	1.463327	1.364469		-6.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.44	1.432547	1.271368		-11.3	30
1,2,4-Trimethylbenzene	A	5.00	4.80	1.156019	1.110171		-4.0	30
1,3,5-Trimethylbenzene	A	5.00	4.78	1.190388	1.137359		-4.5	30
Vinyl Acetate	A	5.00	3.76	1.986739	1.494737		-24.8	30
Vinyl Chloride	A	5.00	4.38	0.7142115	0.6249465		-12.5	30
m&p-Xylene	A	10.0	9.23	1.129066	1.042615		-7.7	30
o-Xylene	A	5.00	4.64	1.138955	1.056775		-7.2	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S082062-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.48	1.084004	0.9711418		-10.4	30
Benzene	A	5.00	4.43	0.9129288	0.8091854		-11.4	30
Benzyl chloride	A	5.00	4.92	1.030942	1.014989		-1.5	30
Bromodichloromethane	A	5.00	4.38	0.6953811	0.6087		-12.5	30
Bromoform	A	5.00	4.82	0.5656468	0.5457917		-3.5	30
Bromomethane	A	5.00	4.55	0.6009459	0.5468856		-9.0	30
1,3-Butadiene	A	5.00	4.16	0.5443004	0.4531667		-16.7	30
2-Butanone (MEK)	A	5.00	4.38	1.507683	1.319078		-12.5	30
Carbon Disulfide	A	5.00	4.47	2.02748	1.813383		-10.6	30
Carbon Tetrachloride	A	5.00	4.56	0.5479998	0.5001972		-8.7	30
Chlorobenzene	A	5.00	4.32	0.8809329	0.7609333		-13.6	30
Chloroethane	A	5.00	4.46	0.3452967	0.3082987		-10.7	30
Chloroform	A	5.00	4.50	1.561184	1.405308		-10.0	30
Chloromethane	A	5.00	4.13	0.6821899	0.5639546		-17.3	30
Cyclohexane	A	5.00	4.46	0.3600845	0.3209321		-10.9	30
Dibromochloromethane	A	5.00	4.59	0.6396581	0.5870834		-8.2	30
1,2-Dibromoethane (EDB)	A	5.00	4.30	0.6171207	0.5300922		-14.1	30
1,2-Dichlorobenzene	A	5.00	4.85	0.6937094	0.6729722		-3.0	30
1,3-Dichlorobenzene	A	5.00	5.03	0.7409581	0.7458368		0.7	30
1,4-Dichlorobenzene	A	5.00	5.05	0.7218155	0.7286874		1.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.38	1.62808	1.427953		-12.3	30
1,1-Dichloroethane	A	5.00	4.56	1.342742	1.225618		-8.7	30
1,2-Dichloroethane	A	5.00	4.59	0.9627523	0.8845347		-8.1	30
1,1-Dichloroethylene	A	5.00	4.58	1.140142	1.044965		-8.3	30
cis-1,2-Dichloroethylene	A	5.00	4.46	0.9670963	0.8621609		-10.9	30
trans-1,2-Dichloroethylene	A	5.00	4.46	1.001825	0.8946354		-10.7	30
1,2-Dichloropropane	A	5.00	4.45	0.3567989	0.3174657		-11.0	30
cis-1,3-Dichloropropene	A	5.00	4.44	0.5092852	0.4521936		-11.2	30
trans-1,3-Dichloropropene	A	5.00	4.37	0.4570981	0.3992354		-12.7	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.54	1.73998	1.581608		-9.1	30
1,4-Dioxane	A	5.00	4.15	0.1857641	0.1540224		-17.1	30
Ethanol	A	5.00	3.44	0.2343264	0.1611108		-31.2	30 *
Ethyl Acetate	A	5.00	4.78	0.2308163	0.2208737		-4.3	30
Ethylbenzene	A	5.00	4.47	1.455024	1.302082		-10.5	30
4-Ethyltoluene	A	5.00	4.79	1.413771	1.353935		-4.2	30
Heptane	A	5.00	4.61	0.2850308	0.2626013		-7.9	30
Hexachlorobutadiene	A	5.00	4.80	0.4677459	0.4494728		-3.9	30
Hexane	A	5.00	4.85	0.8985394	0.8180904		-3.1	30

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S082062-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.33	0.7712864	0.6684917		-13.3	30
Isopropanol	A	5.00	4.12	1.338902	1.10363		-17.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.45	1.834723	1.633425		-11.0	30
Methylene Chloride	A	5.00	3.99	0.9597215	0.7652172		-20.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.43	0.7726854	0.6839505		-11.5	30
Naphthalene	A	5.00	4.74	1.092246	1.036408		-5.1	30
Propene	A	5.00	4.10	0.5941328	0.4870247		-18.0	30
Styrene	A	5.00	4.58	0.7890752	0.7227529		-8.4	30
1,1,2,2-Tetrachloroethane	A	5.00	4.35	0.9851261	0.8578277		-12.9	30
Tetrachloroethylene	A	5.00	4.52	0.457194	0.4130128		-9.7	30
Tetrahydrofuran	A	5.00	4.42	0.2957092	0.2612379		-11.7	30
Toluene	A	5.00	4.31	1.15399	0.9956169		-13.7	30
1,2,4-Trichlorobenzene	A	5.00	4.52	0.4973623	0.4495443		-9.6	30
1,1,1-Trichloroethane	A	5.00	4.36	0.5975698	0.5215659		-12.7	30
1,1,2-Trichloroethane	A	5.00	4.20	0.4162703	0.3501237		-15.9	30
Trichloroethylene	A	5.00	4.34	0.3947958	0.3425264		-13.2	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.71	1.463327	1.378293		-5.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.43	1.432547	1.268741		-11.4	30
1,2,4-Trimethylbenzene	A	5.00	4.79	1.156019	1.107011		-4.2	30
1,3,5-Trimethylbenzene	A	5.00	4.78	1.190388	1.138922		-4.3	30
Vinyl Acetate	A	5.00	3.73	1.986739	1.480423		-25.5	30
Vinyl Chloride	A	5.00	4.43	0.7142115	0.6329313		-11.4	30
m&p-Xylene	A	10.0	9.23	1.129066	1.04263		-7.7	30
o-Xylene	A	5.00	4.66	1.138955	1.060904		-6.9	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023



39 Spruce St.  
 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F: 413-525-6405  
 www.pacelabs.com



Doc# 278 Rev 7 July 2022

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client HRP

Received By UR Date 1/6 Time 1530

How Were the samples received? In Cooler On Ice No Ice           

In Box T Ambient            Melted Ice           

Were samples within Temperature Compliance? Within            By Gun #            Actual Temp -           

2-6°C By Blank #            Actual Temp -           

Was Custody Seal In tact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F Were samples received within holding time? T

Is COC in ink/ Legible? T Client? T Analysis? T Sampler Name? T

Did COC Include all Pertinent Information? Project? T ID's? T Collection Dates/Times? T

Are Sample Labels filled out and legible? Who was notified?           

Are there Rushes? F Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F

Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:		
Summa Cans	5	6L	5	24hr	Nut/Ferrule		IC Train
Tedlar Bags					Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/TO-11s					Tedlar		

Can #'s	Reg #'s
2227	3112
1734	3542
1204	3732
1328	3485
9013	3731
Unused Media	Pufs/TO-17's

Comments:





January 18, 2023

Payson Long  
NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032

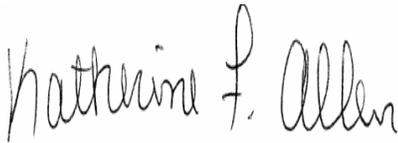
Project Location: 110 Cattermill Rd, Great Neck, NY  
Client Job Number:  
Project Number: 130072  
Laboratory Work Order Number: 23A0672

Enclosed are results of analyses for samples as received by the laboratory on January 6, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy  
Project Manager



QA Officer  
Katherine Allen



Laboratory Manager  
Daren Damboragian

NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032  
ATTN: Payson Long

REPORT DATE: 1/18/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

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**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 23A0672

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cattermill Rd, Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE- INF	23A0672-01	Air		EPA TO-15	
SVE- EFF	23A0672-02	Air		EPA TO-15	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**EPA TO-15**

**Qualifications:**

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A-09 Holding times and stability of samples taken in tedlar bags have not been determined

**Analyte & Samples(s) Qualified:**

23A0672-01[SVE- INF], 23A0672-02[SVE- EFF]

---

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:**

**Ethanol**

23A0672-01[SVE- INF], 23A0672-02[SVE- EFF], B329065-BLK1, B329065-BS1

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V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

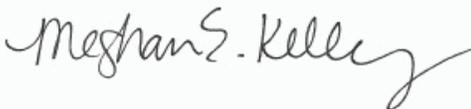
**Analyte & Samples(s) Qualified:**

**Ethanol**

23A0672-01[SVE- INF], 23A0672-02[SVE- EFF], B329065-BLK1, B329065-BS1, S082062-CCV1

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The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

**ANALYTICAL RESULTS**

 Project Location: 110 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: SVE- INF**  
**Sample ID: 23A0672-01**  
 Sample Matrix: Air  
 Sampled: 1/4/2023 10:16

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23A0672**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	14	8.0	4.8		33	19	11	4	1/14/23	6:43	CMR
Benzene	0.35	0.20	0.15		1.1	0.64	0.48	4	1/14/23	6:43	CMR
Benzyl chloride	ND	0.20	0.18		ND	1.0	0.91	4	1/14/23	6:43	CMR
Bromodichloromethane	ND	0.20	0.14		ND	1.3	0.94	4	1/14/23	6:43	CMR
Bromoform	ND	0.20	0.14		ND	2.1	1.4	4	1/14/23	6:43	CMR
Bromomethane	ND	0.20	0.13		ND	0.78	0.52	4	1/14/23	6:43	CMR
1,3-Butadiene	ND	0.20	0.17		ND	0.44	0.37	4	1/14/23	6:43	CMR
2-Butanone (MEK)	15	8.0	2.1		44	24	6.3	4	1/14/23	6:43	CMR
Carbon Disulfide	ND	2.0	0.18		ND	6.2	0.58	4	1/14/23	6:43	CMR
Carbon Tetrachloride	ND	0.20	0.16		ND	1.3	1.0	4	1/14/23	6:43	CMR
Chlorobenzene	ND	0.20	0.13		ND	0.92	0.61	4	1/14/23	6:43	CMR
Chloroethane	ND	0.20	0.18		ND	0.53	0.47	4	1/14/23	6:43	CMR
Chloroform	0.26	0.20	0.19		1.3	0.98	0.93	4	1/14/23	6:43	CMR
Chloromethane	0.47	0.40	0.16		0.97	0.83	0.33	4	1/14/23	6:43	CMR
Cyclohexane	ND	0.20	0.12		ND	0.69	0.42	4	1/14/23	6:43	CMR
Dibromochloromethane	ND	0.20	0.13		ND	1.7	1.1	4	1/14/23	6:43	CMR
1,2-Dibromoethane (EDB)	ND	0.20	0.12		ND	1.5	0.93	4	1/14/23	6:43	CMR
1,2-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.69	4	1/14/23	6:43	CMR
1,3-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.67	4	1/14/23	6:43	CMR
1,4-Dichlorobenzene	ND	0.20	0.13		ND	1.2	0.79	4	1/14/23	6:43	CMR
Dichlorodifluoromethane (Freon 12)	0.43	0.20	0.20		2.1	0.99	0.97	4	1/14/23	6:43	CMR
1,1-Dichloroethane	ND	0.20	0.17		ND	0.81	0.71	4	1/14/23	6:43	CMR
1,2-Dichloroethane	ND	0.20	0.18		ND	0.81	0.73	4	1/14/23	6:43	CMR
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.60	4	1/14/23	6:43	CMR
cis-1,2-Dichloroethylene	19	0.20	0.15		74	0.79	0.58	4	1/14/23	6:43	CMR
trans-1,2-Dichloroethylene	0.22	0.20	0.16		0.86	0.79	0.62	4	1/14/23	6:43	CMR
1,2-Dichloropropane	0.24	0.20	0.11		1.1	0.92	0.50	4	1/14/23	6:43	CMR
cis-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.47	4	1/14/23	6:43	CMR
trans-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.46	4	1/14/23	6:43	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20		ND	1.4	1.4	4	1/14/23	6:43	CMR
1,4-Dioxane	ND	2.0	0.17		ND	7.2	0.60	4	1/14/23	6:43	CMR
Ethanol	80	8.0	3.5	V-05, L-03	150	15	6.6	4	1/14/23	6:43	CMR
Ethyl Acetate	ND	2.0	1.0		ND	7.2	3.6	4	1/14/23	6:43	CMR
Ethylbenzene	ND	0.20	0.12		ND	0.87	0.51	4	1/14/23	6:43	CMR
4-Ethyltoluene	ND	0.20	0.12		ND	0.98	0.60	4	1/14/23	6:43	CMR
Heptane	0.14	0.20	0.13	J	0.57	0.82	0.52	4	1/14/23	6:43	CMR
Hexachlorobutadiene	ND	0.20	0.16		ND	2.1	1.8	4	1/14/23	6:43	CMR
Hexane	ND	8.0	1.0		ND	28	3.7	4	1/14/23	6:43	CMR
2-Hexanone (MBK)	ND	0.20	0.10		ND	0.82	0.41	4	1/14/23	6:43	CMR
Isopropanol	2.7	8.0	1.4	J	6.7	20	3.4	4	1/14/23	6:43	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15		ND	0.72	0.56	4	1/14/23	6:43	CMR
Methylene Chloride	ND	2.0	0.93		ND	6.9	3.2	4	1/14/23	6:43	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.11		ND	0.82	0.44	4	1/14/23	6:43	CMR
Naphthalene	ND	0.20	0.15		ND	1.0	0.79	4	1/14/23	6:43	CMR
Propene	1.9	8.0	1.8	J	3.2	14	3.0	4	1/14/23	6:43	CMR
Styrene	ND	0.20	0.11		ND	0.85	0.45	4	1/14/23	6:43	CMR
1,1,2,2-Tetrachloroethane	ND	0.20	0.11		ND	1.4	0.74	4	1/14/23	6:43	CMR

**ANALYTICAL RESULTS**

 Project Location: 110 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: SVE- INF**  
**Sample ID: 23A0672-01**  
 Sample Matrix: Air  
 Sampled: 1/4/2023 10:16

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23A0672**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	65	0.20	0.15		440	1.4	1.0	4	1/14/23	6:43	CMR
Tetrahydrofuran	21	2.0	0.33		63	5.9	0.97	4	1/14/23	6:43	CMR
Toluene	1.3	0.20	0.11		5.0	0.75	0.43	4	1/14/23	6:43	CMR
1,2,4-Trichlorobenzene	ND	0.20	0.19		ND	1.5	1.4	4	1/14/23	6:43	CMR
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	1/14/23	6:43	CMR
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	1/14/23	6:43	CMR
Trichloroethylene	6.9	0.20	0.13		37	1.1	0.72	4	1/14/23	6:43	CMR
Trichlorofluoromethane (Freon 11)	0.26	0.80	0.24	J	1.5	4.5	1.3	4	1/14/23	6:43	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	1/14/23	6:43	CMR
1,2,4-Trimethylbenzene	0.15	0.20	0.088	J	0.73	0.98	0.43	4	1/14/23	6:43	CMR
1,3,5-Trimethylbenzene	ND	0.20	0.11		ND	0.98	0.52	4	1/14/23	6:43	CMR
Vinyl Acetate	ND	4.0	1.1		ND	14	3.8	4	1/14/23	6:43	CMR
Vinyl Chloride	ND	0.20	0.18		ND	0.51	0.46	4	1/14/23	6:43	CMR
m&p-Xylene	0.33	0.40	0.22	J	1.4	1.7	0.97	4	1/14/23	6:43	CMR
o-Xylene	0.13	0.20	0.10	J	0.57	0.87	0.44	4	1/14/23	6:43	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	110	70-130	1/14/23 6:43

**ANALYTICAL RESULTS**

 Project Location: 110 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: SVE- EFF**  
**Sample ID: 23A0672-02**  
 Sample Matrix: Air  
 Sampled: 1/4/2023 10:10

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23A0672**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	11	8.0	4.8		25	19	11	4	1/14/23 7:24	CMR	
Benzene	0.30	0.20	0.15		0.96	0.64	0.48	4	1/14/23 7:24	CMR	
Benzyl chloride	ND	0.20	0.18		ND	1.0	0.91	4	1/14/23 7:24	CMR	
Bromodichloromethane	ND	0.20	0.14		ND	1.3	0.94	4	1/14/23 7:24	CMR	
Bromoform	ND	0.20	0.14		ND	2.1	1.4	4	1/14/23 7:24	CMR	
Bromomethane	ND	0.20	0.13		ND	0.78	0.52	4	1/14/23 7:24	CMR	
1,3-Butadiene	ND	0.20	0.17		ND	0.44	0.37	4	1/14/23 7:24	CMR	
2-Butanone (MEK)	16	8.0	2.1		48	24	6.3	4	1/14/23 7:24	CMR	
Carbon Disulfide	ND	2.0	0.18		ND	6.2	0.58	4	1/14/23 7:24	CMR	
Carbon Tetrachloride	ND	0.20	0.16		ND	1.3	1.0	4	1/14/23 7:24	CMR	
Chlorobenzene	ND	0.20	0.13		ND	0.92	0.61	4	1/14/23 7:24	CMR	
Chloroethane	ND	0.20	0.18		ND	0.53	0.47	4	1/14/23 7:24	CMR	
Chloroform	0.22	0.20	0.19		1.1	0.98	0.93	4	1/14/23 7:24	CMR	
Chloromethane	0.57	0.40	0.16		1.2	0.83	0.33	4	1/14/23 7:24	CMR	
Cyclohexane	ND	0.20	0.12		ND	0.69	0.42	4	1/14/23 7:24	CMR	
Dibromochloromethane	ND	0.20	0.13		ND	1.7	1.1	4	1/14/23 7:24	CMR	
1,2-Dibromoethane (EDB)	ND	0.20	0.12		ND	1.5	0.93	4	1/14/23 7:24	CMR	
1,2-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.69	4	1/14/23 7:24	CMR	
1,3-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.67	4	1/14/23 7:24	CMR	
1,4-Dichlorobenzene	ND	0.20	0.13		ND	1.2	0.79	4	1/14/23 7:24	CMR	
Dichlorodifluoromethane (Freon 12)	0.20	0.20	0.20		0.99	0.99	0.97	4	1/14/23 7:24	CMR	
1,1-Dichloroethane	ND	0.20	0.17		ND	0.81	0.71	4	1/14/23 7:24	CMR	
1,2-Dichloroethane	ND	0.20	0.18		ND	0.81	0.73	4	1/14/23 7:24	CMR	
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.60	4	1/14/23 7:24	CMR	
cis-1,2-Dichloroethylene	0.34	0.20	0.15		1.3	0.79	0.58	4	1/14/23 7:24	CMR	
trans-1,2-Dichloroethylene	ND	0.20	0.16		ND	0.79	0.62	4	1/14/23 7:24	CMR	
1,2-Dichloropropane	0.39	0.20	0.11		1.8	0.92	0.50	4	1/14/23 7:24	CMR	
cis-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.47	4	1/14/23 7:24	CMR	
trans-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.46	4	1/14/23 7:24	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20		ND	1.4	1.4	4	1/14/23 7:24	CMR	
1,4-Dioxane	ND	2.0	0.17		ND	7.2	0.60	4	1/14/23 7:24	CMR	
Ethanol	82	8.0	3.5	L-03, V-05	150	15	6.6	4	1/14/23 7:24	CMR	
Ethyl Acetate	ND	2.0	1.0		ND	7.2	3.6	4	1/14/23 7:24	CMR	
Ethylbenzene	0.14	0.20	0.12	J	0.63	0.87	0.51	4	1/14/23 7:24	CMR	
4-Ethyltoluene	ND	0.20	0.12		ND	0.98	0.60	4	1/14/23 7:24	CMR	
Heptane	0.13	0.20	0.13	J	0.52	0.82	0.52	4	1/14/23 7:24	CMR	
Hexachlorobutadiene	ND	0.20	0.16		ND	2.1	1.8	4	1/14/23 7:24	CMR	
Hexane	ND	8.0	1.0		ND	28	3.7	4	1/14/23 7:24	CMR	
2-Hexanone (MBK)	ND	0.20	0.10		ND	0.82	0.41	4	1/14/23 7:24	CMR	
Isopropanol	3.3	8.0	1.4	J	8.2	20	3.4	4	1/14/23 7:24	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15		ND	0.72	0.56	4	1/14/23 7:24	CMR	
Methylene Chloride	ND	2.0	0.93		ND	6.9	3.2	4	1/14/23 7:24	CMR	
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.11		ND	0.82	0.44	4	1/14/23 7:24	CMR	
Naphthalene	ND	0.20	0.15		ND	1.0	0.79	4	1/14/23 7:24	CMR	
Propene	ND	8.0	1.8		ND	14	3.0	4	1/14/23 7:24	CMR	
Styrene	0.12	0.20	0.11	J	0.49	0.85	0.45	4	1/14/23 7:24	CMR	
1,1,2,2-Tetrachloroethane	ND	0.20	0.11		ND	1.4	0.74	4	1/14/23 7:24	CMR	

**ANALYTICAL RESULTS**

 Project Location: 110 Cattermill Rd, Great Neck, N  
 Date Received: 1/6/2023  
**Field Sample #: SVE- EFF**  
**Sample ID: 23A0672-02**  
 Sample Matrix: Air  
 Sampled: 1/4/2023 10:10

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23A0672**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analized		
Tetrachloroethylene	20	0.20	0.15		140	1.4	1.0	4	1/14/23 7:24	CMR	
Tetrahydrofuran	23	2.0	0.33		67	5.9	0.97	4	1/14/23 7:24	CMR	
Toluene	2.2	0.20	0.11		8.3	0.75	0.43	4	1/14/23 7:24	CMR	
1,2,4-Trichlorobenzene	ND	0.20	0.19		ND	1.5	1.4	4	1/14/23 7:24	CMR	
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	1/14/23 7:24	CMR	
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	1/14/23 7:24	CMR	
Trichloroethylene	0.48	0.20	0.13		2.6	1.1	0.72	4	1/14/23 7:24	CMR	
Trichlorofluoromethane (Freon 11)	ND	0.80	0.24		ND	4.5	1.3	4	1/14/23 7:24	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	1/14/23 7:24	CMR	
1,2,4-Trimethylbenzene	0.33	0.20	0.088		1.6	0.98	0.43	4	1/14/23 7:24	CMR	
1,3,5-Trimethylbenzene	ND	0.20	0.11		ND	0.98	0.52	4	1/14/23 7:24	CMR	
Vinyl Acetate	ND	4.0	1.1		ND	14	3.8	4	1/14/23 7:24	CMR	
Vinyl Chloride	ND	0.20	0.18		ND	0.51	0.46	4	1/14/23 7:24	CMR	
m&p-Xylene	0.42	0.40	0.22		1.8	1.7	0.97	4	1/14/23 7:24	CMR	
o-Xylene	0.19	0.20	0.10	J	0.82	0.87	0.44	4	1/14/23 7:24	CMR	

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

112

70-130

1/14/23 7:24

**Sample Extraction Data**
**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23A0672-01 [SVE- INF]	B329065	1	1	N/A	1000	400	100	01/13/23
23A0672-02 [SVE- EFF]	B329065	1	1	N/A	1000	400	100	01/13/23

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	

**Batch B329065 - TO-15 Prep**
**Blank (B329065-BLK1)**

Prepared &amp; Analyzed: 01/13/23

Acetone	ND	1.4
Benzene	ND	0.035
Benzyl chloride	ND	0.035
Bromodichloromethane	ND	0.035
Bromoform	ND	0.035
Bromomethane	ND	0.035
1,3-Butadiene	ND	0.035
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.35
Carbon Tetrachloride	ND	0.035
Chlorobenzene	ND	0.035
Chloroethane	ND	0.035
Chloroform	ND	0.035
Chloromethane	ND	0.070
Cyclohexane	ND	0.035
Dibromochloromethane	ND	0.035
1,2-Dibromoethane (EDB)	ND	0.035
1,2-Dichlorobenzene	ND	0.035
1,3-Dichlorobenzene	ND	0.035
1,4-Dichlorobenzene	ND	0.035
Dichlorodifluoromethane (Freon 12)	ND	0.035
1,1-Dichloroethane	ND	0.035
1,2-Dichloroethane	ND	0.035
1,1-Dichloroethylene	ND	0.035
cis-1,2-Dichloroethylene	ND	0.035
trans-1,2-Dichloroethylene	ND	0.035
1,2-Dichloropropane	ND	0.035
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
Ethylbenzene	ND	0.035
4-Ethyltoluene	ND	0.035
Heptane	ND	0.035
Hexachlorobutadiene	ND	0.035
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.035
Isopropanol	ND	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.035
Methylene Chloride	ND	0.35
4-Methyl-2-pentanone (MIBK)	ND	0.035
Naphthalene	ND	0.035
Propene	ND	1.4
Styrene	ND	0.035

L-03, V-05

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

**Batch B329065 - TO-15 Prep**
**Blank (B329065-BLK1)**

Prepared &amp; Analyzed: 01/13/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
1,2,4-Trichlorobenzene	ND	0.035
1,1,1-Trichloroethane	ND	0.035
1,1,2-Trichloroethane	ND	0.035
Trichloroethylene	ND	0.035
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.035
1,3,5-Trimethylbenzene	ND	0.035
Vinyl Acetate	ND	0.70
Vinyl Chloride	ND	0.035
m&p-Xylene	ND	0.070
o-Xylene	ND	0.035

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>9.07</i>	<i>8.00</i>	<i>113</i>	<i>70-130</i>
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**LCS (B329065-BS1)**

Prepared &amp; Analyzed: 01/13/23

Acetone	4.67	5.00	93.4	70-130
Benzene	4.44	5.00	88.9	70-130
Benzyl chloride	4.90	5.00	97.9	70-130
Bromodichloromethane	4.32	5.00	86.4	70-130
Bromoform	5.04	5.00	101	70-130
Bromomethane	4.68	5.00	93.5	70-130
1,3-Butadiene	4.14	5.00	82.9	70-130
2-Butanone (MEK)	4.62	5.00	92.3	70-130
Carbon Disulfide	4.86	5.00	97.3	70-130
Carbon Tetrachloride	4.44	5.00	88.8	70-130
Chlorobenzene	4.38	5.00	87.7	70-130
Chloroethane	4.68	5.00	93.5	70-130
Chloroform	4.82	5.00	96.3	70-130
Chloromethane	4.24	5.00	84.8	70-130
Cyclohexane	4.53	5.00	90.7	70-130
Dibromochloromethane	4.64	5.00	92.9	70-130
1,2-Dibromoethane (EDB)	4.27	5.00	85.4	70-130
1,2-Dichlorobenzene	5.06	5.00	101	70-130
1,3-Dichlorobenzene	5.21	5.00	104	70-130
1,4-Dichlorobenzene	5.18	5.00	104	70-130
Dichlorodifluoromethane (Freon 12)	4.95	5.00	99.0	70-130
1,1-Dichloroethane	4.86	5.00	97.1	70-130
1,2-Dichloroethane	4.86	5.00	97.2	70-130
1,1-Dichloroethylene	4.97	5.00	99.4	70-130
cis-1,2-Dichloroethylene	4.62	5.00	92.3	70-130
trans-1,2-Dichloroethylene	4.64	5.00	92.8	70-130
1,2-Dichloropropane	4.46	5.00	89.1	70-130

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B329065 - TO-15 Prep</b>											
<b>LCS (B329065-BS1)</b>											
Prepared & Analyzed: 01/13/23											
cis-1,3-Dichloropropene	4.29				5.00		85.8	70-130			
trans-1,3-Dichloropropene	4.37				5.00		87.5	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.46				5.00		89.2	70-130			
1,4-Dioxane	4.57				5.00		91.3	70-130			
Ethanol	3.47				5.00		<b>69.4</b> *	70-130			L-03, V-05
Ethyl Acetate	4.84				5.00		96.8	70-130			
Ethylbenzene	4.48				5.00		89.7	70-130			
4-Ethyltoluene	4.91				5.00		98.2	70-130			
Heptane	4.54				5.00		90.8	70-130			
Hexachlorobutadiene	4.95				5.00		99.1	70-130			
Hexane	5.03				5.00		101	70-130			
2-Hexanone (MBK)	4.29				5.00		85.8	70-130			
Isopropanol	3.69				5.00		73.7	70-130			
Methyl tert-Butyl Ether (MTBE)	4.69				5.00		93.9	70-130			
Methylene Chloride	4.16				5.00		83.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.36				5.00		87.1	70-130			
Naphthalene	5.07				5.00		101	70-130			
Propene	4.10				5.00		82.0	70-130			
Styrene	4.74				5.00		94.7	70-130			
1,1,2,2-Tetrachloroethane	4.27				5.00		85.5	70-130			
Tetrachloroethylene	4.67				5.00		93.4	70-130			
Tetrahydrofuran	4.99				5.00		99.9	70-130			
Toluene	4.38				5.00		87.5	70-130			
1,2,4-Trichlorobenzene	4.63				5.00		92.5	70-130			
1,1,1-Trichloroethane	4.24				5.00		84.8	70-130			
1,1,2-Trichloroethane	4.29				5.00		85.7	70-130			
Trichloroethylene	4.52				5.00		90.3	70-130			
Trichlorofluoromethane (Freon 11)	5.05				5.00		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.76				5.00		95.1	70-130			
1,2,4-Trimethylbenzene	4.89				5.00		97.8	70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.8	70-130			
Vinyl Acetate	3.65				5.00		72.9	70-130			
Vinyl Chloride	4.57				5.00		91.5	70-130			
m&p-Xylene	9.36				10.0		93.6	70-130			
o-Xylene	4.72				5.00		94.5	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>9.37</i>				<i>8.00</i>		<i>117</i>	<i>70-130</i>			

**Note: Blank Subtraction is not performed unless otherwise noted**

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m <sup>3</sup>	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

**ANALYST**

RJM Raymond J. McCarthy  
STATION PDF Management Station  
LR Lionel Rios  
KKM Kerry K. McGee  
CMR Catherine M. Rouleau  
BRF Brittany R. Fisk

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S076501-ICV1)</b>			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S082062-CCV1)</b>			Lab File ID: G23A013003.D			Analyzed: 01/13/23 15:00			
Bromochloromethane (1)	1159997	8.307	1159997	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2858015	10.081	2858015	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2660760	14.446	2660760	14.446	100	60 - 140	0.0000	+/-0.50	
<b>LCS (B329065-BS1)</b>			Lab File ID: G23A013005.D			Analyzed: 01/13/23 16:21			
Bromochloromethane (1)	1219522	8.307	1159997	8.307	105	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3174975	10.075	2858015	10.081	111	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2945362	14.44	2660760	14.446	111	60 - 140	-0.0060	+/-0.50	
<b>Blank (B329065-BLK1)</b>			Lab File ID: G23A013008.D			Analyzed: 01/13/23 18:29			
Bromochloromethane (1)	1187490	8.313	1159997	8.307	102	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3001317	10.081	2858015	10.081	105	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2811369	14.446	2660760	14.446	106	60 - 140	0.0000	+/-0.50	
<b>SVE- INF (23A0672-01)</b>			Lab File ID: G23A013025.D			Analyzed: 01/14/23 06:43			
Bromochloromethane (1)	1149969	8.3	1159997	8.307	99	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	2724176	10.075	2858015	10.081	95	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2614749	14.44	2660760	14.446	98	60 - 140	-0.0060	+/-0.50	
<b>SVE- EFF (23A0672-02)</b>			Lab File ID: G23A013026.D			Analyzed: 01/14/23 07:24			
Bromochloromethane (1)	1144391	8.301	1159997	8.307	99	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2712903	10.075	2858015	10.081	95	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2599359	14.44	2660760	14.446	98	60 - 140	-0.0060	+/-0.50	

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S082062-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.48	1.084004	0.9711418		-10.4	30
Benzene	A	5.00	4.43	0.9129288	0.8091854		-11.4	30
Benzyl chloride	A	5.00	4.92	1.030942	1.014989		-1.5	30
Bromodichloromethane	A	5.00	4.38	0.6953811	0.6087		-12.5	30
Bromoform	A	5.00	4.82	0.5656468	0.5457917		-3.5	30
Bromomethane	A	5.00	4.55	0.6009459	0.5468856		-9.0	30
1,3-Butadiene	A	5.00	4.16	0.5443004	0.4531667		-16.7	30
2-Butanone (MEK)	A	5.00	4.38	1.507683	1.319078		-12.5	30
Carbon Disulfide	A	5.00	4.47	2.02748	1.813383		-10.6	30
Carbon Tetrachloride	A	5.00	4.56	0.5479998	0.5001972		-8.7	30
Chlorobenzene	A	5.00	4.32	0.8809329	0.7609333		-13.6	30
Chloroethane	A	5.00	4.46	0.3452967	0.3082987		-10.7	30
Chloroform	A	5.00	4.50	1.561184	1.405308		-10.0	30
Chloromethane	A	5.00	4.13	0.6821899	0.5639546		-17.3	30
Cyclohexane	A	5.00	4.46	0.3600845	0.3209321		-10.9	30
Dibromochloromethane	A	5.00	4.59	0.6396581	0.5870834		-8.2	30
1,2-Dibromoethane (EDB)	A	5.00	4.30	0.6171207	0.5300922		-14.1	30
1,2-Dichlorobenzene	A	5.00	4.85	0.6937094	0.6729722		-3.0	30
1,3-Dichlorobenzene	A	5.00	5.03	0.7409581	0.7458368		0.7	30
1,4-Dichlorobenzene	A	5.00	5.05	0.7218155	0.7286874		1.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.38	1.62808	1.427953		-12.3	30
1,1-Dichloroethane	A	5.00	4.56	1.342742	1.225618		-8.7	30
1,2-Dichloroethane	A	5.00	4.59	0.9627523	0.8845347		-8.1	30
1,1-Dichloroethylene	A	5.00	4.58	1.140142	1.044965		-8.3	30
cis-1,2-Dichloroethylene	A	5.00	4.46	0.9670963	0.8621609		-10.9	30
trans-1,2-Dichloroethylene	A	5.00	4.46	1.001825	0.8946354		-10.7	30
1,2-Dichloropropane	A	5.00	4.45	0.3567989	0.3174657		-11.0	30
cis-1,3-Dichloropropene	A	5.00	4.44	0.5092852	0.4521936		-11.2	30
trans-1,3-Dichloropropene	A	5.00	4.37	0.4570981	0.3992354		-12.7	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.54	1.73998	1.581608		-9.1	30
1,4-Dioxane	A	5.00	4.15	0.1857641	0.1540224		-17.1	30
Ethanol	A	5.00	3.44	0.2343264	0.1611108		-31.2	30 *
Ethyl Acetate	A	5.00	4.78	0.2308163	0.2208737		-4.3	30
Ethylbenzene	A	5.00	4.47	1.455024	1.302082		-10.5	30
4-Ethyltoluene	A	5.00	4.79	1.413771	1.353935		-4.2	30
Heptane	A	5.00	4.61	0.2850308	0.2626013		-7.9	30
Hexachlorobutadiene	A	5.00	4.80	0.4677459	0.4494728		-3.9	30
Hexane	A	5.00	4.85	0.8985394	0.8180904		-3.1	30

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S082062-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.33	0.7712864	0.6684917		-13.3	30
Isopropanol	A	5.00	4.12	1.338902	1.10363		-17.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.45	1.834723	1.633425		-11.0	30
Methylene Chloride	A	5.00	3.99	0.9597215	0.7652172		-20.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.43	0.7726854	0.6839505		-11.5	30
Naphthalene	A	5.00	4.74	1.092246	1.036408		-5.1	30
Propene	A	5.00	4.10	0.5941328	0.4870247		-18.0	30
Styrene	A	5.00	4.58	0.7890752	0.7227529		-8.4	30
1,1,2,2-Tetrachloroethane	A	5.00	4.35	0.9851261	0.8578277		-12.9	30
Tetrachloroethylene	A	5.00	4.52	0.457194	0.4130128		-9.7	30
Tetrahydrofuran	A	5.00	4.42	0.2957092	0.2612379		-11.7	30
Toluene	A	5.00	4.31	1.15399	0.9956169		-13.7	30
1,2,4-Trichlorobenzene	A	5.00	4.52	0.4973623	0.4495443		-9.6	30
1,1,1-Trichloroethane	A	5.00	4.36	0.5975698	0.5215659		-12.7	30
1,1,2-Trichloroethane	A	5.00	4.20	0.4162703	0.3501237		-15.9	30
Trichloroethylene	A	5.00	4.34	0.3947958	0.3425264		-13.2	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.71	1.463327	1.378293		-5.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.43	1.432547	1.268741		-11.4	30
1,2,4-Trimethylbenzene	A	5.00	4.79	1.156019	1.107011		-4.2	30
1,3,5-Trimethylbenzene	A	5.00	4.78	1.190388	1.138922		-4.3	30
Vinyl Acetate	A	5.00	3.73	1.986739	1.480423		-25.5	30
Vinyl Chloride	A	5.00	4.43	0.7142115	0.6329313		-11.4	30
m&p-Xylene	A	10.0	9.23	1.129066	1.04263		-7.7	30
o-Xylene	A	5.00	4.66	1.138955	1.060904		-6.9	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023





February 27, 2023

Payson Long  
NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: 110 Cuttermill Rd, Great Neck, NY  
Client Job Number:  
Project Number: 130072  
Laboratory Work Order Number: 23B1957

Enclosed are results of analyses for samples as received by the laboratory on February 16, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy  
Project Manager

## Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
Sample Preparation Information	9
QC Data	10
Air Toxics by EPA Compendium Methods	10
B332610	10
Flag/Qualifier Summary	13
Internal standard Area & RT Summary	14
Continuing Calibration Check	15
Certifications	17
Chain of Custody/Sample Receipt	19

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

NYDEC\_HRP Associates, Inc. - Farmington, CT  
197 Scott Swamp Road  
Farmington, CT 06032  
ATTN: Payson Long

REPORT DATE: 2/27/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 23B1957

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cuttermill Rd, Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	23B1957-01	Air		EPA TO-15	
SVE-EFF	23B1957-02	Air		EPA TO-15	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**EPA TO-15**

**Qualifications:**

**A-09**

Holding times and stability of samples taken in tedlar bags have not been determined

**Analyte & Samples(s) Qualified:**

23B1957-01[SVE-INF], 23B1957-01RE1[SVE-INF], 23B1957-02[SVE-EFF]

**L-05**

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

**Analyte & Samples(s) Qualified:**

**Benzene**

23B1957-01[SVE-INF], 23B1957-02[SVE-EFF], B332610-BS1

**V-05**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

**Analyte & Samples(s) Qualified:**

**1,2,4-Trichlorobenzene**

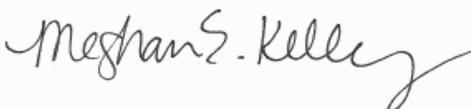
23B1957-01[SVE-INF], 23B1957-02[SVE-EFF], B332610-BLK1, B332610-BS1, S083780-CCV1

**Naphthalene**

23B1957-01[SVE-INF], 23B1957-02[SVE-EFF], B332610-BLK1, B332610-BS1, S083780-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**ANALYTICAL RESULTS**

 Project Location: 110 Cuttermill Rd, Great Neck, N  
 Date Received: 2/16/2023  
**Field Sample #: SVE-INF**  
**Sample ID: 23B1957-01**  
 Sample Matrix: Air  
 Sampled: 2/15/2023 08:15

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23B1957**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.2	8.0		22	19	4	2/24/23	4:05	CMR
Benzene	0.52	0.20	L-05	1.7	0.64	4	2/24/23	4:05	CMR
Benzyl chloride	ND	0.20		ND	1.0	4	2/24/23	4:05	CMR
Bromodichloromethane	ND	0.20		ND	1.3	4	2/24/23	4:05	CMR
Bromoform	ND	0.20		ND	2.1	4	2/24/23	4:05	CMR
Bromomethane	ND	0.20		ND	0.78	4	2/24/23	4:05	CMR
1,3-Butadiene	ND	0.20		ND	0.44	4	2/24/23	4:05	CMR
2-Butanone (MEK)	ND	8.0		ND	24	4	2/24/23	4:05	CMR
Carbon Disulfide	ND	2.0		ND	6.2	4	2/24/23	4:05	CMR
Carbon Tetrachloride	ND	0.20		ND	1.3	4	2/24/23	4:05	CMR
Chlorobenzene	ND	0.20		ND	0.92	4	2/24/23	4:05	CMR
Chloroethane	ND	0.20		ND	0.53	4	2/24/23	4:05	CMR
Chloroform	ND	0.20		ND	0.98	4	2/24/23	4:05	CMR
Chloromethane	0.57	0.40		1.2	0.83	4	2/24/23	4:05	CMR
Cyclohexane	0.90	0.20		3.1	0.69	4	2/24/23	4:05	CMR
Dibromochloromethane	ND	0.20		ND	1.7	4	2/24/23	4:05	CMR
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	2/24/23	4:05	CMR
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23	4:05	CMR
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23	4:05	CMR
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23	4:05	CMR
Dichlorodifluoromethane (Freon 12)	0.53	0.20		2.6	0.99	4	2/24/23	4:05	CMR
1,1-Dichloroethane	ND	0.20		ND	0.81	4	2/24/23	4:05	CMR
1,2-Dichloroethane	ND	0.20		ND	0.81	4	2/24/23	4:05	CMR
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	2/24/23	4:05	CMR
cis-1,2-Dichloroethylene	63	0.20		250	0.79	4	2/24/23	4:05	CMR
trans-1,2-Dichloroethylene	0.32	0.20		1.3	0.79	4	2/24/23	4:05	CMR
1,2-Dichloropropane	0.22	0.20		1.00	0.92	4	2/24/23	4:05	CMR
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	2/24/23	4:05	CMR
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	2/24/23	4:05	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	2/24/23	4:05	CMR
1,4-Dioxane	ND	2.0		ND	7.2	4	2/24/23	4:05	CMR
Ethanol	76	8.0		140	15	4	2/24/23	4:05	CMR
Ethyl Acetate	ND	2.0		ND	7.2	4	2/24/23	4:05	CMR
Ethylbenzene	0.50	0.20		2.2	0.87	4	2/24/23	4:05	CMR
4-Ethyltoluene	ND	0.20		ND	0.98	4	2/24/23	4:05	CMR
Heptane	ND	0.20		ND	0.82	4	2/24/23	4:05	CMR
Hexachlorobutadiene	ND	0.20		ND	2.1	4	2/24/23	4:05	CMR

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**ANALYTICAL RESULTS**

 Project Location: 110 Cuttermill Rd, Great Neck, N  
 Date Received: 2/16/2023  
**Field Sample #: SVE-INF**  
**Sample ID: 23B1957-01**  
 Sample Matrix: Air  
 Sampled: 2/15/2023 08:15

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23B1957**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	39	8.0		140	28	4	2/24/23	4:05	CMR
2-Hexanone (MBK)	0.40	0.20		1.6	0.82	4	2/24/23	4:05	CMR
Isopropanol	15	8.0		37	20	4	2/24/23	4:05	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	2/24/23	4:05	CMR
Methylene Chloride	ND	2.0		ND	6.9	4	2/24/23	4:05	CMR
4-Methyl-2-pentanone (MIBK)	0.28	0.20		1.1	0.82	4	2/24/23	4:05	CMR
Naphthalene	ND	0.20	V-05	ND	1.0	4	2/24/23	4:05	CMR
Propene	ND	8.0		ND	14	4	2/24/23	4:05	CMR
Styrene	0.24	0.20		1.0	0.85	4	2/24/23	4:05	CMR
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	2/24/23	4:05	CMR
Tetrachloroethylene	870	1.0		5900	6.8	20	2/24/23	3:41	CMR
Tetrahydrofuran	ND	2.0		ND	5.9	4	2/24/23	4:05	CMR
Toluene	1.2	0.20		4.4	0.75	4	2/24/23	4:05	CMR
1,2,4-Trichlorobenzene	ND	0.20	V-05	ND	1.5	4	2/24/23	4:05	CMR
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	2/24/23	4:05	CMR
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	2/24/23	4:05	CMR
Trichloroethylene	31	0.20		170	1.1	4	2/24/23	4:05	CMR
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	2/24/23	4:05	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	2/24/23	4:05	CMR
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	2/24/23	4:05	CMR
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	2/24/23	4:05	CMR
Vinyl Acetate	ND	4.0		ND	14	4	2/24/23	4:05	CMR
Vinyl Chloride	ND	0.20		ND	0.51	4	2/24/23	4:05	CMR
m&p-Xylene	2.3	0.40		10	1.7	4	2/24/23	4:05	CMR
o-Xylene	1.6	0.20		7.1	0.87	4	2/24/23	4:05	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.5	70-130	2/24/23 3:41
4-Bromofluorobenzene (1)	97.3	70-130	2/24/23 4:05

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**ANALYTICAL RESULTS**

 Project Location: 110 Cuttermill Rd, Great Neck, N  
 Date Received: 2/16/2023  
**Field Sample #: SVE-EFF**  
**Sample ID: 23B1957-02**  
 Sample Matrix: Air  
 Sampled: 2/15/2023 08:05

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23B1957**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	8.0		ND	19	4	2/24/23 10:24	CMR	
Benzene	0.41	0.20	L-05	1.3	0.64	4	2/24/23 10:24	CMR	
Benzyl chloride	ND	0.20		ND	1.0	4	2/24/23 10:24	CMR	
Bromodichloromethane	ND	0.20		ND	1.3	4	2/24/23 10:24	CMR	
Bromoform	ND	0.20		ND	2.1	4	2/24/23 10:24	CMR	
Bromomethane	ND	0.20		ND	0.78	4	2/24/23 10:24	CMR	
1,3-Butadiene	ND	0.20		ND	0.44	4	2/24/23 10:24	CMR	
2-Butanone (MEK)	ND	8.0		ND	24	4	2/24/23 10:24	CMR	
Carbon Disulfide	ND	2.0		ND	6.2	4	2/24/23 10:24	CMR	
Carbon Tetrachloride	ND	0.20		ND	1.3	4	2/24/23 10:24	CMR	
Chlorobenzene	ND	0.20		ND	0.92	4	2/24/23 10:24	CMR	
Chloroethane	ND	0.20		ND	0.53	4	2/24/23 10:24	CMR	
Chloroform	ND	0.20		ND	0.98	4	2/24/23 10:24	CMR	
Chloromethane	0.40	0.40		0.83	0.83	4	2/24/23 10:24	CMR	
Cyclohexane	0.86	0.20		3.0	0.69	4	2/24/23 10:24	CMR	
Dibromochloromethane	ND	0.20		ND	1.7	4	2/24/23 10:24	CMR	
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	2/24/23 10:24	CMR	
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23 10:24	CMR	
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23 10:24	CMR	
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	2/24/23 10:24	CMR	
Dichlorodifluoromethane (Freon 12)	0.45	0.20		2.2	0.99	4	2/24/23 10:24	CMR	
1,1-Dichloroethane	ND	0.20		ND	0.81	4	2/24/23 10:24	CMR	
1,2-Dichloroethane	ND	0.20		ND	0.81	4	2/24/23 10:24	CMR	
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	2/24/23 10:24	CMR	
cis-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	2/24/23 10:24	CMR	
trans-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	2/24/23 10:24	CMR	
1,2-Dichloropropane	1.8	0.20		8.5	0.92	4	2/24/23 10:24	CMR	
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	2/24/23 10:24	CMR	
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	2/24/23 10:24	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	2/24/23 10:24	CMR	
1,4-Dioxane	ND	2.0		ND	7.2	4	2/24/23 10:24	CMR	
Ethanol	36	8.0		69	15	4	2/24/23 10:24	CMR	
Ethyl Acetate	ND	2.0		ND	7.2	4	2/24/23 10:24	CMR	
Ethylbenzene	0.47	0.20		2.0	0.87	4	2/24/23 10:24	CMR	
4-Ethyltoluene	ND	0.20		ND	0.98	4	2/24/23 10:24	CMR	
Heptane	ND	0.20		ND	0.82	4	2/24/23 10:24	CMR	
Hexachlorobutadiene	ND	0.20		ND	2.1	4	2/24/23 10:24	CMR	

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**ANALYTICAL RESULTS**

 Project Location: 110 Cuttermill Rd, Great Neck, N  
 Date Received: 2/16/2023  
**Field Sample #: SVE-EFF**  
**Sample ID: 23B1957-02**  
 Sample Matrix: Air  
 Sampled: 2/15/2023 08:05

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID:  
 Canister Size:  
 Flow Controller ID:  
 Sample Type:

**Work Order: 23B1957**  
 Initial Vacuum(in Hg):  
 Final Vacuum(in Hg):  
 Receipt Vacuum(in Hg):  
 Flow Controller Type:  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	41	8.0		140	28	4	2/24/23 10:24		CMR
2-Hexanone (MBK)	0.31	0.20		1.3	0.82	4	2/24/23 10:24		CMR
Isopropanol	14	8.0		35	20	4	2/24/23 10:24		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	2/24/23 10:24		CMR
Methylene Chloride	ND	2.0		ND	6.9	4	2/24/23 10:24		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	2/24/23 10:24		CMR
Naphthalene	ND	0.20	V-05	ND	1.0	4	2/24/23 10:24		CMR
Propene	ND	8.0		ND	14	4	2/24/23 10:24		CMR
Styrene	ND	0.20		ND	0.85	4	2/24/23 10:24		CMR
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	2/24/23 10:24		CMR
Tetrachloroethylene	ND	0.20		ND	1.4	4	2/24/23 10:24		CMR
Tetrahydrofuran	ND	2.0		ND	5.9	4	2/24/23 10:24		CMR
Toluene	6.1	0.20		23	0.75	4	2/24/23 10:24		CMR
1,2,4-Trichlorobenzene	ND	0.20	V-05	ND	1.5	4	2/24/23 10:24		CMR
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	2/24/23 10:24		CMR
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	2/24/23 10:24		CMR
Trichloroethylene	ND	0.20		ND	1.1	4	2/24/23 10:24		CMR
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	2/24/23 10:24		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	2/24/23 10:24		CMR
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	2/24/23 10:24		CMR
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	2/24/23 10:24		CMR
Vinyl Acetate	ND	4.0		ND	14	4	2/24/23 10:24		CMR
Vinyl Chloride	ND	0.20		ND	0.51	4	2/24/23 10:24		CMR
m&p-Xylene	2.0	0.40		8.7	1.7	4	2/24/23 10:24		CMR
o-Xylene	1.3	0.20		5.6	0.87	4	2/24/23 10:24		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.8	70-130	2/24/23 10:24

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**Sample Extraction Data**
**Prep Method: TO-15 Prep**
**Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23B1957-01 [SVE-INF]	B332610	1	1	N/A	1000	200	50	02/23/23
23B1957-01RE1 [SVE-INF]	B332610	1	1	N/A	1000	200	10	02/23/23
23B1957-02 [SVE-EFF]	B332610	1	1	N/A	1000	200	50	02/23/23

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## QUALITY CONTROL

## Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B332610 - TO-15 Prep</b>											
<b>Blank (B332610-BLK1)</b>											
						Prepared & Analyzed: 02/23/23					
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									
Propene	ND	0.80									
Styrene	ND	0.020									

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD			
<b>Batch B332610 - TO-15 Prep</b>											
<b>Blank (B332610-BLK1)</b>						Prepared & Analyzed: 02/23/23					
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									V-05
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	8.32				8.00		104	70-130			
<b>LCS (B332610-BS1)</b>						Prepared & Analyzed: 02/23/23					
Acetone	4.59				5.00		91.8	70-130			
Benzene	7.23				5.00		145 *	70-130			L-05
Benzyl chloride	4.84				5.00		96.9	70-130			
Bromodichloromethane	5.83				5.00		117	70-130			
Bromoform	6.15				5.00		123	70-130			
Bromomethane	5.17				5.00		103	70-130			
1,3-Butadiene	4.82				5.00		96.4	70-130			
2-Butanone (MEK)	3.81				5.00		76.2	70-130			
Carbon Disulfide	4.95				5.00		98.9	70-130			
Carbon Tetrachloride	5.64				5.00		113	70-130			
Chlorobenzene	5.33				5.00		107	70-130			
Chloroethane	5.24				5.00		105	70-130			
Chloroform	5.36				5.00		107	70-130			
Chloromethane	5.28				5.00		106	70-130			
Cyclohexane	4.91				5.00		98.2	70-130			
Dibromochloromethane	5.93				5.00		119	70-130			
1,2-Dibromoethane (EDB)	5.43				5.00		109	70-130			
1,2-Dichlorobenzene	4.93				5.00		98.6	70-130			
1,3-Dichlorobenzene	5.56				5.00		111	70-130			
1,4-Dichlorobenzene	5.46				5.00		109	70-130			
Dichlorodifluoromethane (Freon 12)	5.04				5.00		101	70-130			
1,1-Dichloroethane	5.47				5.00		109	70-130			
1,2-Dichloroethane	4.91				5.00		98.2	70-130			
1,1-Dichloroethylene	4.73				5.00		94.6	70-130			
cis-1,2-Dichloroethylene	4.85				5.00		97.0	70-130			
trans-1,2-Dichloroethylene	5.23				5.00		105	70-130			
1,2-Dichloropropane	5.81				5.00		116	70-130			

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD			
<b>Batch B332610 - TO-15 Prep</b>											
<b>LCS (B332610-BS1)</b>						Prepared & Analyzed: 02/23/23					
cis-1,3-Dichloropropene	5.08				5.00		102	70-130			
trans-1,3-Dichloropropene	5.05				5.00		101	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.81				5.00		96.1	70-130			
1,4-Dioxane	4.83				5.00		96.6	70-130			
Ethanol	4.93				5.00		98.6	70-130			
Ethyl Acetate	3.99				5.00		79.7	70-130			
Ethylbenzene	4.77				5.00		95.5	70-130			
4-Ethyltoluene	4.40				5.00		88.0	70-130			
Heptane	5.42				5.00		108	70-130			
Hexachlorobutadiene	5.22				5.00		104	70-130			
Hexane	4.60				5.00		92.0	70-130			
2-Hexanone (MBK)	5.01				5.00		100	70-130			
Isopropanol	3.85				5.00		77.0	70-130			
Methyl tert-Butyl Ether (MTBE)	4.08				5.00		81.6	70-130			
Methylene Chloride	4.60				5.00		92.0	70-130			
4-Methyl-2-pentanone (MIBK)	4.94				5.00		98.8	70-130			
Naphthalene	3.65				5.00		73.0	70-130			V-05
Propene	5.34				5.00		107	70-130			
Styrene	4.66				5.00		93.3	70-130			
1,1,2,2-Tetrachloroethane	5.72				5.00		114	70-130			
Tetrachloroethylene	5.46				5.00		109	70-130			
Tetrahydrofuran	4.63				5.00		92.6	70-130			
Toluene	4.96				5.00		99.1	70-130			
1,2,4-Trichlorobenzene	3.70				5.00		74.0	70-130			V-05
1,1,1-Trichloroethane	5.12				5.00		102	70-130			
1,1,2-Trichloroethane	5.65				5.00		113	70-130			
Trichloroethylene	5.28				5.00		106	70-130			
Trichlorofluoromethane (Freon 11)	4.96				5.00		99.3	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.78				5.00		95.6	70-130			
1,2,4-Trimethylbenzene	4.57				5.00		91.4	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	4.14				5.00		82.8	70-130			
Vinyl Chloride	5.25				5.00		105	70-130			
m&p-Xylene	10.6				10.0		106	70-130			
o-Xylene	5.28				5.00		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.81</i>				<i>8.00</i>		<i>110</i>	<i>70-130</i>			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S082540-ICV1)</b>			Lab File ID: J23A025019.D			Analyzed: 01/26/23 00:04			
Bromochloromethane (1)	341158	2.806	348844	2.806	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1102343	3.428	1108168	3.428	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	959356	5.043	976400	5.038	98	60 - 140	0.0050	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S083780-CCV1)</b>			Lab File ID: J23A054004.D			Analyzed: 02/23/23 11:06			
Bromochloromethane (1)	390078	2.806	348844	2.806	112	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1144609	3.428	1108168	3.428	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	984901	5.043	976400	5.038	101	60 - 140	0.0050	+/-0.50	
<b>LCS (B332610-BS1)</b>			Lab File ID: J23A054005.D			Analyzed: 02/23/23 11:30			
Bromochloromethane (1)	375086	2.801	390078	2.806	96	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	1113065	3.427	1144609	3.428	97	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	962039	5.043	984901	5.043	98	60 - 140	0.0000	+/-0.50	
<b>Blank (B332610-BLK1)</b>			Lab File ID: J23A054008.D			Analyzed: 02/23/23 12:59			
Bromochloromethane (1)	336337	2.789	390078	2.806	86	60 - 140	-0.0170	+/-0.50	
1,4-Difluorobenzene (1)	838757	3.421	1144609	3.428	73	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	820762	5.034	984901	5.043	83	60 - 140	-0.0090	+/-0.50	
<b>SVE-INF (23B1957-01RE1)</b>			Lab File ID: J23A054038.D			Analyzed: 02/24/23 03:41			
Bromochloromethane (1)	364982	2.79	390078	2.806	94	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	967228	3.422	1144609	3.428	85	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	939345	5.036	984901	5.043	95	60 - 140	-0.0070	+/-0.50	
<b>SVE-INF (23B1957-01)</b>			Lab File ID: J23A054039.D			Analyzed: 02/24/23 04:05			
Bromochloromethane (1)	369758	2.79	390078	2.806	95	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	1021276	3.422	1144609	3.428	89	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	973570	5.037	984901	5.043	99	60 - 140	-0.0060	+/-0.50	
<b>SVE-EFF (23B1957-02)</b>			Lab File ID: J23A054043.D			Analyzed: 02/24/23 10:24			
Bromochloromethane (1)	375273	2.79	390078	2.806	96	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	1013974	3.422	1144609	3.428	89	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	990055	5.037	984901	5.043	101	60 - 140	-0.0060	+/-0.50	

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S083780-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.17	0.9172061	0.7657012		-16.5	30
Benzene	A	5.00	4.68	0.7387105	0.6916011		-6.4	30
Benzyl chloride	A	5.00	4.49	0.7213395	0.6474787		-10.2	30
Bromodichloromethane	A	5.00	5.41	0.5251533	0.5680263		8.2	30
Bromoform	A	5.00	5.95	0.4277704	0.5089454		19.0	30
Bromomethane	A	5.00	4.71	0.6097815	0.5746092		-5.8	30
1,3-Butadiene	A	5.00	4.62	0.4638914	0.4290342		-7.5	30
2-Butanone (MEK)	A	5.00	4.32	1.412082	1.220658		-13.6	30
Carbon Disulfide	A	5.00	4.38	1.950889	1.707416		-12.5	30
Carbon Tetrachloride	A	5.00	5.29	0.4804808	0.5085894		5.9	30
Chlorobenzene	A	5.00	5.01	0.7448082	0.7457172		0.1	30
Chloroethane	A	5.00	4.65	0.3583321	0.3333036		-7.0	30
Chloroform	A	5.00	4.80	1.602387	1.539532		-3.9	30
Chloromethane	A	5.00	4.90	0.498645	0.4884603		-2.0	30
Cyclohexane	A	5.00	4.50	0.3089687	0.2780128		-10.0	30
Dibromochloromethane	A	5.00	5.57	0.5087335	0.5667705		11.4	30
1,2-Dibromoethane (EDB)	A	5.00	5.18	0.4954263	0.5131399		3.6	30
1,2-Dichlorobenzene	A	5.00	4.66	0.6000711	0.558924		-6.9	30
1,3-Dichlorobenzene	A	5.00	5.25	0.6282622	0.6599794		5.0	30
1,4-Dichlorobenzene	A	5.00	5.14	0.5785005	0.5944768		2.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.73	1.788333	1.693015		-5.3	30
1,1-Dichloroethane	A	5.00	5.02	1.234282	1.23951		0.4	30
1,2-Dichloroethane	A	5.00	4.58	1.007865	0.9235773		-8.4	30
1,1-Dichloroethylene	A	5.00	4.31	1.125918	0.9715144		-13.7	30
cis-1,2-Dichloroethylene	A	5.00	4.46	0.988136	0.8823097		-10.7	30
trans-1,2-Dichloroethylene	A	5.00	4.76	1.018061	0.9686227		-4.9	30
1,2-Dichloropropane	A	5.00	5.34	0.2543605	0.271503		6.7	30
cis-1,3-Dichloropropene	A	5.00	4.86	0.3935901	0.3826369		-2.8	30
trans-1,3-Dichloropropene	A	5.00	4.65	0.350459	0.3259957		-7.0	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 113)	A	5.00	4.73	1.768022	1.67279		-5.4	30
1,4-Dioxane	A	5.00	4.32	0.1607629	0.1389652		-13.6	30
Ethanol	A	5.00	4.06	0.1626733	0.1321418		-18.8	30
Ethyl Acetate	A	5.00	3.80	0.2181169	0.165731		-24.0	30
Ethylbenzene	A	5.00	4.44	1.320541	1.173777		-11.1	30
4-Ethyltoluene	A	5.00	4.06	1.333301	1.083338		-18.7	30
Heptane	A	5.00	4.97	0.2163238	0.2150575		-0.6	30
Hexachlorobutadiene	A	5.00	5.06	0.4316824	0.4372647		1.3	30
Hexane	L	5.00	4.16	0.7010749	0.5896462		-16.7	30

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## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S083780-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.56	0.5317658	0.4849023		-8.8	30
Isopropanol	A	5.00	4.08	1.0816	0.8821087		-18.4	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	3.77	2.038246	1.537945		-24.5	30
Methylene Chloride	A	5.00	4.16	0.7621343	0.6334897		-16.9	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.46	0.2070279	0.1846318		-10.8	30
Naphthalene	A	5.00	3.00	0.9438203	0.5661938		-40.0	30 *
Propene	A	5.00	5.00	0.3658411	0.3658673		0.007	30
Styrene	A	5.00	4.22	0.7117754	0.6000051		-15.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.29	0.7493945	0.7935092		5.9	30
Tetrachloroethylene	A	5.00	5.13	0.3917065	0.4020433		2.6	30
Tetrahydrofuran	A	5.00	3.90	0.721119	0.5632638		-21.9	30
Toluene	A	5.00	4.55	1.018666	0.9276173		-8.9	30
1,2,4-Trichlorobenzene	A	5.00	3.27	0.3480916	0.2274486		-34.7	30 *
1,1,1-Trichloroethane	A	5.00	4.94	0.5043155	0.498782		-1.1	30
1,1,2-Trichloroethane	A	5.00	5.23	0.3354709	0.3511062		4.7	30
Trichloroethylene	A	5.00	4.93	0.332105	0.3275501		-1.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.60	1.844271	1.695862		-8.0	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.42	1.418208	1.252997		-11.6	30
1,2,4-Trimethylbenzene	A	5.00	4.30	1.114566	0.9581925		-14.0	30
1,3,5-Trimethylbenzene	A	5.00	4.82	1.126426	1.086381		-3.6	30
Vinyl Acetate	A	5.00	3.54	1.280082	0.9066125		-29.2	30
Vinyl Chloride	A	5.00	4.74	0.6431254	0.6103067		-5.1	30
m&p-Xylene	A	10.0	9.91	1.065519	1.055581		-0.9	30
o-Xylene	A	5.00	4.87	1.040057	1.013121		-2.6	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023





# APPENDIX D

## Monthly Groundwater Level Measurements and Groundwater Sampling Logs

**Stanton Cleaners Area Superfund Site  
Water Level Data Summary**

Site: Stanton Cleaners Area Superfund Site

Date: 1/4/23

Location: 110 Cutter Mill Road, Great Neck, NY

Project #: DEC10030M

Field Personnel: DJA, KG

Well ID	Depth to Water (feet)	Time	Notes
EPA-MW-11D	55.43	7:11	no bolts
EPA-MW-21R	63.49	8:17	1 bolt tab broken, bolt holes stripped
EPA-MW-23	61.69	8:12	bolt holes stripped
EPA-MW-26	56.91	9:20	ponded water, no bolts
EPA-MW-27	48.40	8:26	no bolts
EPA-MW-9A	60.63	8:36	
ST-MW-11	56.32	7:17	no bolts
ST-MW-12	67.72	8:49	no bolts
ST-MW-13	83.73	9:13	1 bolt tab broken, no bolts
ST-MW-14	50.14	8:22	no bolts bolt tabs broken, ponded water
ST-MW-15	70.49	9:06	no bolts
ST-MW-16	53.17	9:26	bolt tabs broken
ST-MW-17	66.96	8:46	no bolts
ST-MW-18	64.73	8:54	
ST-MW-19	62.36	8:32	ponded water, no bolts
ST-MW-20	65.03	8:41	no bolts

**Stanton Cleaners Area Superfund Site  
Water Level Data Summary**

Site: Stanton Cleaners Area Superfund Site

Date: 2/15/23

Location: 110 Cutter Mill Road, Great Neck, NY

Project #: DEC-1003.0M

Field Personnel: CJL, DJA

Well ID	Depth to Water (feet)	Time	Notes
EPA-MW-11D	54.17	7:15	NO bolts
EPA-MW-21R	63.08	7:54	1 bolt tab broken, bolt stripped
EPA-MW-23	61.27	7:59	bolt holes stripped
EPA-MW-26	56.67	8:09	NO bolts
EPA-MW-27	47.88	7:50	NO bolts
EPA-MW-9A	59.50	7:19	
ST-MW-11	55.31	7:12	NO bolts
ST-MW-12	67.27	7:27	<del>bolt hole tab broken</del> NO bolts
ST-MW-13	83.56	7:42	NO bolts bolt tabs broken
ST-MW-14	47.82	7:48	NO bolts
ST-MW-15	70.02	7:38	bolt tabs broken
ST-MW-16	52.80	8:06	NO bolts
ST-MW-17	66.38	7:25	NO bolts
ST-MW-18	67.22	8:17	<del>NO bolts</del>
ST-MW-19	61.84	7:34	NO bolts
ST-MW-20	62.79	7:23	NO bolts

**Stanton Cleaners Area Superfund Site  
Water Level Data Summary**

Site: Stanton Cleaners Area Superfund Site

Date: 3-15-23

Location: 110 Cutter Mill Road, Great Neck, NY

Project #: DEC-1003.0M

Field Personnel: CIL, KG

Well ID	Depth to Water (feet)	Time (AM)	Notes
EPA-MW-11D	53.64	10:26	BHS
EPA-MW-21R	62.58	9:53	BHS
EPA-MW-23	60.81	9:50	BHS
EPA-MW-26	56.25	10:03	BHS
EPA-MW-27	47.33	10:14	BHS
EPA-MW-9A	58.89	10:23	
ST-MW-11	—	—	Under parked car
ST-MW-12	66.63	10:36	BHS
ST-MW-13	82.95	10:53	BHS
ST-MW-14	47.07	10:16	BHS, ponded water
ST-MW-15	69.67	10:48	BHS
ST-MW-16	52.65	9:59	BHS
ST-MW-17	65.88	10:34	BHS
ST-MW-18	64.63	10:41	
ST-MW-19	61.23	10:20	BHS
ST-MW-20	63.31	10:32	BHS

Site Name: NYDEC Stanton Cleaners  
 Address: 110 Cutter Mill Rd, Great Neck, NY  
 Job #: DEC1003.OM T-4

Weather: P. Sunny, 60°F

On-Site: 7:00  
 Off-Site: 9:35  
 Purpose of Visit: GWM

Date: 1/4/23  
 Team Leader:  
 Field Team: DJA, KG

Well ID	DTW (ft)	DTB (ft)	Time	From	Screen Length (ft)	PDB set Depth (feet)	Sample Time	Notes
EPA-MW-9a	60.63	103.00	8:36	2" pvc HW	20	93.00	8:39	
EPA-MW-11d	55.43	135.71	7:11	4" pvc HW	10	130.71	7:15	no bolts, Dupe = MW-100
EPA-M-21r	63.49	86.38	8:17	2" pvc HW	10	81.38	8:19	1 bolt tab broken, bolt holes stripped
EPA-MW-23	61.69	95.45	8:12	2" pvc HW	10	90.45	8:15	bolt holes stripped
EPA-MW-26	56.91	95.44	9:20	2" pvc HW	10	90.44	9:23	no bolts, ponded water
EPA-MW-27	48.40	127.15	8:26	2" pvc HW	10	122.15	8:29	no bolts
STA-MW-11	56.32	83.06	7:17	2" pvc HW	10	78.06	7:19	no bolts
STA-MW-12	67.72	86.00	8:49	2" pvc HW	15	78.50	8:51	no bolts
STA-MW-13	83.73	101.81	9:13	2" pvc HW	15	94.31	9:16	no bolts, Dupe = MW-101
STA-MW-14	50.14	200.00	8:22	2" pvc HW	15	192.50	8:24	1 bolt tab broken, no bolts, ponded water
STA-MW-15	70.49	86.58	9:06	2" pvc HW	10	81.58	9:08	no bolts
STA-MW-16	53.17	69.21	9:26	2" pvc HW	15	61.71	9:28	no bolts, bolt tabs broken, ponded water
STA-MW-17	66.96	141.10	8:46	2" pvc HW	20	131.10	8:48	no bolts
STA-MW-18	64.73	203.00	8:53	2" pvc HW	20	193.00	8:57	
STA-MW-19	62.36	89.62	8:36	2" pvc HW	15	82.12	8:34	no bolts, ponded water
STA-MW-20	65.03	215.20	8:41	2" pvc HW	15	207.7	8:43	no bolts

trip blank = TB-1 sampled @ 8:10

# APPENDIX E

## Indoor Air Sampling – Sampling Questionnaire and Building Inspection



**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

Site Name: Stanton Cleaners Site Code: 130072 Operable Unit: \_\_\_\_\_  
 Building Code: \_\_\_\_\_ Building Name: Long Island Hebrew Academy  
 Address: 122 Cutter Mill Road Apt/Suite No: 3A  
 City: Great Neck State: NY Zip: 11021 County: Nassau

**Contact Information**

Preparer's Name: David Adam Phone No: 860-674-9570  
 Preparer's Affiliation: HRP Associates Inc. Company Code: \_\_\_\_\_  
 Purpose of Investigation: Indoor Air Sampling Date of Inspection: Jan 04 23  
 Contact Name: Sharyn Blaustein Affiliation: TENANT  
 Phone No: 516-466-3656 Alt. Phone No: rosel@LIHAGH.org Email: morahsora@LIHAGH.org  
 Number of Occupants (total): ~180 Number of Children: ~160  
 Occupant Interviewed?  Owner Occupied?  Owner Interviewed?  
 Owner Name (if different): North Shore Sephardic Synagogue Owner Phone: 516-482-4228  
 Owner Mailing Address: 130 Cutter Mill Road, Greack Neck NY

**Building Details**

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): MEDIUM  
 If Commercial or Industrial Facility, Select Operations: SCHOOL If Residential Select Structure Type: \_\_\_\_\_  
 Number of Floors: 3 Approx. Year Construction: 1960  Building Insulated?  Attached Garage?  
 Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):  
Building seems well insulated and sealed.

**Foundation Description**

Foundation Type: BASEMENT Foundation Depth (bgs): \_\_\_\_\_ Unit: FEET  
 Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: \_\_\_\_\_ Unit: INCHES  
 Foundation Wall Material: \_\_\_\_\_ Foundation Wall Thickness: \_\_\_\_\_  
 Floor penetrations? Describe Floor Penetrations: \_\_\_\_\_  
 Wall penetrations? Describe Wall Penetrations: \_\_\_\_\_  
 Basement is: FINISHED Basement is: DRY  Sumps/Drains? Water In Sump?: NO  
 Describe Foundation Condition (cracks, seepage, etc.) : \_\_\_\_\_  
 Radon Mitigation System Installed?  VOC Mitigation System Installed?  Mitigation System On?

**Heating/Cooling/Ventilation Systems**

Heating System: FORCED AIR Heat Fuel Type: GAS  Central A/C Present?

**Vented Appliances**

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: \_\_\_\_\_  
 Water Htr Vent Location: \_\_\_\_\_ Dryer Vent Location: \_\_\_\_\_



## Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

### PRODUCT INVENTORY

Building Name: Long Island Hebrew Academy      Bldg Code: \_\_\_\_\_      Date: \_\_\_\_\_  
 Bldg Address: 122 Cutter Mill Road      Apt/Suite No: 3A  
 Bldg City/State/Zip: Great Neck NY, 11021  
 Make and Model of PID: MiniRae Lite      Date of Calibration: Jan. 04 23

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Maintenance	East Coast Fabulous cleaner	1 gal.	U		0.0	<input type="checkbox"/>
Maintenance	Rustoleum oil based paint	1 gal. (2)	U		0.0	<input type="checkbox"/>
Maintenance	Minwax Wood Finish	1gal. (2)	U	Aliphatic Hydrocarbons	0.0	<input type="checkbox"/>
Maintenance	Spray Nine cleaner/degreaser	32oz.	U	2-Butoxyethanol, 2-Aminoethanol	0.0	<input type="checkbox"/>
Maintenance	Hi-Valu Bleach	1 gal.	U	Sodium Hydrocarbons	0.0	<input type="checkbox"/>
Maintenance	Windex Advanced multisurface	24oz.	U	2-Hexoxyethanol, Isopropanolamine, Sodium Dodecylbenzene Sulfonate, lauramine Oxide, Ammonium Hydroxide	0.0	<input type="checkbox"/>
Maintenance	Pro-finisher polyurethane	1 gal.	U		0.0	<input type="checkbox"/>
Maintenance	Crayola & Blickrylic student paint	1 gal. (17)	UO/U		0.0	<input type="checkbox"/>
Maintenance	East Coast Orange Citrus Clean	1 gal.	U	Nonionic Surfactant	0.0	<input type="checkbox"/>
Maintenance	3-in-one multipurpose oil	8oz.	U		0.0	<input type="checkbox"/>
Maintenance	Kleen Strip Paint Thinner	1gal.	U		0.0	<input type="checkbox"/>
Maintenance	Nu-foamicide cleaner/disinfect.	1gal. (9)	UO/U	N-Alkyl dimethyl benzyl ammonium chloride dimethyl ethylbenzyl ammonium chloride	0.0	<input type="checkbox"/>
Maintenance	Zep High Traffic Carpet spot	1 gal.	U		0.0	<input type="checkbox"/>
Maintenance	Simoniz Disinfectant Spray	6.5oz. (3)	UO/U	2 phenylbema, Ethanol, 4 tert Amylphenol	0.0	<input type="checkbox"/>
Maintenance	Benjamin Moore latex paint	1gal. (2)	U		0.0	<input type="checkbox"/>
Maintenance	BEHR Latex paint	1 gal. (8)	U		0.0	<input type="checkbox"/>

\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

\*\* Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete?  Yes     
 Were there any elevated PID readings taken on site?  No     
  Products with COC?



**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

**PRODUCT INVENTORY**

Building Name: Long Island Hebrew Academy Bldg Code: \_\_\_\_\_ Date: \_\_\_\_\_  
 Bldg Address: 122 Cutter Mill Road Apt/Suite No: 3A  
 Bldg City/State/Zip: Great Neck NY, 11021  
 Make and Model of PID: MiniRae Lite Date of Calibration: Jan. 04 23

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Maintenance	Martin Yale static eliminator	14oz.	U		0.0	<input type="checkbox"/>
Maintenance	Pratt & Lambert latex paint	1 gal.	U		0.0	<input type="checkbox"/>
Maintenance	Serwin Walliams latex paint	1gal. (2)	U		0.0	<input type="checkbox"/>
Maintenance	Glidden latex paint	1gal.(2)	U		0.0	<input type="checkbox"/>
Maintenance	Ace spackling compound	1 quart	U		0.0	<input type="checkbox"/>
Maintenance	Rustoleum oil based spray pai	16oz.	U		0.0	<input type="checkbox"/>
Maintenance	Elyptol hand sanitizer	16oz.	U		0.0	<input type="checkbox"/>
Maintenance	Opecal hand sanitizer	500ml	U		0.0	<input type="checkbox"/>
Maintenance	Helix hand sanitizer	1gal	U		0.0	<input type="checkbox"/>
Maintenance	Simoniz hand soap	000ml(8	U		0.0	<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

\*\* Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete?  Yes      Were there any elevated PID readings taken on site?  No       Products with COC?



**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

Site Name: Stanton Cleaners Site Code: 130072 Operable Unit: \_\_\_\_\_  
Building Code: \_\_\_\_\_ Building Name: Long Island Hebrew Academy  
Address: 122 Cutter Mill Road Apt/Suite No: 3A  
City: Great Neck State: NY Zip: 11021 County: Nassau

**Factors Affecting Indoor Air Quality**

Frequency Basement/Lowest Level is Occupied?: FULL TIME Floor Material: LINOLEUM/VINYL  
 Inhabited?  HVAC System On?  Bathroom Exhaust Fan?  Kitchen Exhaust Fan?  
Alternate Heat Source: NONE  Is there smoking in the building?  
 Air Fresheners? Description/Location of Air Freshener: \_\_\_\_\_  
 Cleaning Products Used Recently?: Description of Cleaning Products: Windex, Simoniz  
 Cosmetic Products Used Recently?: Description of Cosmetic Products: \_\_\_\_\_  
 New Carpet or Furniture? Location of New Carpet/Furniture: \_\_\_\_\_  
 Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: \_\_\_\_\_  
 Recent Painting/Staining? Location of New Painting: \_\_\_\_\_  
 Solvent or Chemical Odors? Describe Odors (if any): \_\_\_\_\_  
 Do Any Occupants Use Solvents At Work? If So, List Solvents Used: \_\_\_\_\_  
 Recent Pesticide/Rodenticide? Description of Last Use: every 3 months

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:  
Cleaning products used daily to clean floors, tables, desks and door handles.

Any Prior Testing For Radon? If So, When?: \_\_\_\_\_  
 Any Prior Testing For VOCs? If So, When?: \_\_\_\_\_

**Sampling Conditions**

Weather Conditions: PARTLY CLOUDY Outdoor Temperature: 60 °F  
Current Building Use: SCHOOL Barometric Pressure: 29.90 in(hg)  
Product Inventory Complete?  Yes  Building Questionnaire Completed?



## Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: \_\_\_\_\_ Address: 122 Cutter Mill Road 3A Great Neck, NY 11021

### Sampling Information

Sampler Name(s): David Adam, Keith Gandarillas Sampler Company Code: \_\_\_\_\_  
 Sample Collection Date: Jan 04 23 Date Samples Sent To Lab: \_\_\_\_\_  
 Sample Chain of Custody Number: \_\_\_\_\_ Outdoor Air Sample Location ID: \_\_\_\_\_

### SUMMA Canister Information

Sample ID:	LIHA-IA1	LIHA-IA1-DUP	LIHA-IA2	LIHA-IA3	LIHA-OA1
Location Code:	Classroom 3A	Classroom 3A	Playroom	Classroom 23	Outside
Location Type:	BASEMENT	BASEMENT	BASEMENT	FIRST FLOOR	OUTDOOR
Canister ID:	2227	1739	1204	1828	9013
Regulator ID:	3412	3542	3732	3489	3731
Matrix:	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Ambient Outc
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SF	SUMMA AIR SF	SUMMA AIR SF	SUMMA AIR SF

### Sampling Area Info

Slab Thickness (inches):					
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:					
Seal Adequate?:	<input type="checkbox"/>				

### Sample Times and Vacuum Readings

Sample Start Date/Time:	01/04/23 7:52	01/04/23 7:52	01/04/23 8:01	01/04/23 7:53	01/04/23 8:03
Vacuum Gauge Start:	30	27	28	30	28
Sample End Date/Time:	01/05/23 8:00	01/05/23 8:00	01/05/23 7:51	01/04/23 8:01	01/05/23 8:03
Vacuum Gauge End:	9	6	10.5	19	10.5
Sample Duration (hrs):	23.96	23.96	23.96	23.96	24.00
Vacuum Gauge Unit:	in (hg)				

### Sample QA/QC Readings

Vapor Port Purge:	<input type="checkbox"/>				
Purge PID Reading:					
Purge PID Unit:					
Tracer Test Pass:	<input type="checkbox"/>				

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

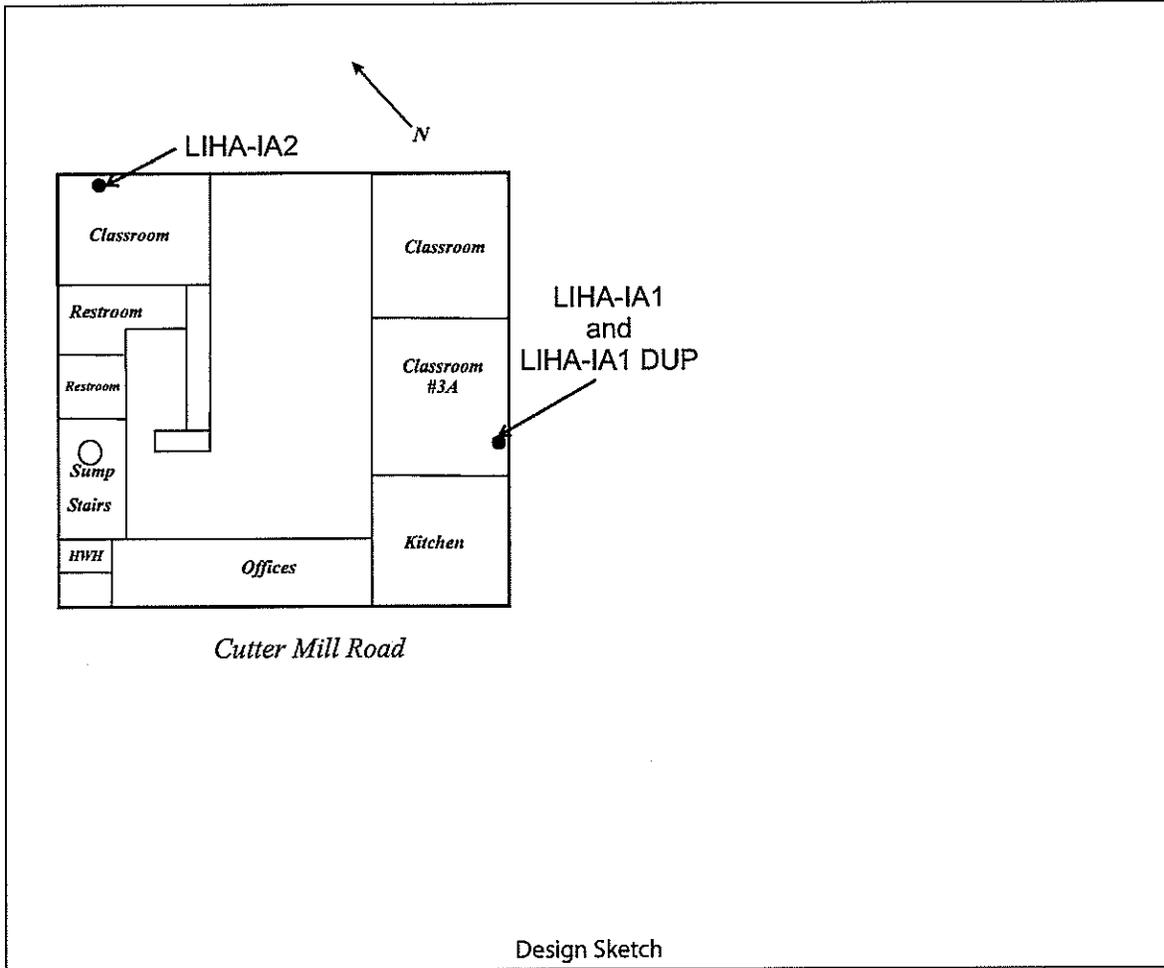


**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

**LOWEST BUILDING LEVEL LAYOUT SKETCH**

Please click the box with the blue border below to upload a sketch of the lowest building level .  
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



**Design Sketch Guidelines and Recommended Symbology**

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

<b>B or F</b>	Boiler or Furnace	○	Other floor or wall penetrations (label appropriately)
<b>HW</b>	Hot Water Heater	XXXXXXXX	Perimeter Drains (draw inside or outside outer walls as appropriate)
<b>FP</b>	Fireplaces	#####	Areas of broken-up concrete
<b>WS</b>	Wood Stoves	● SS-1	Location & label of sub-slab samples
<b>W/D</b>	Washer / Dryer	● IA-1	Location & label of indoor air samples
<b>S</b>	Sumps	● OA-1	Location & label of outdoor air samples
<b>@</b>	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

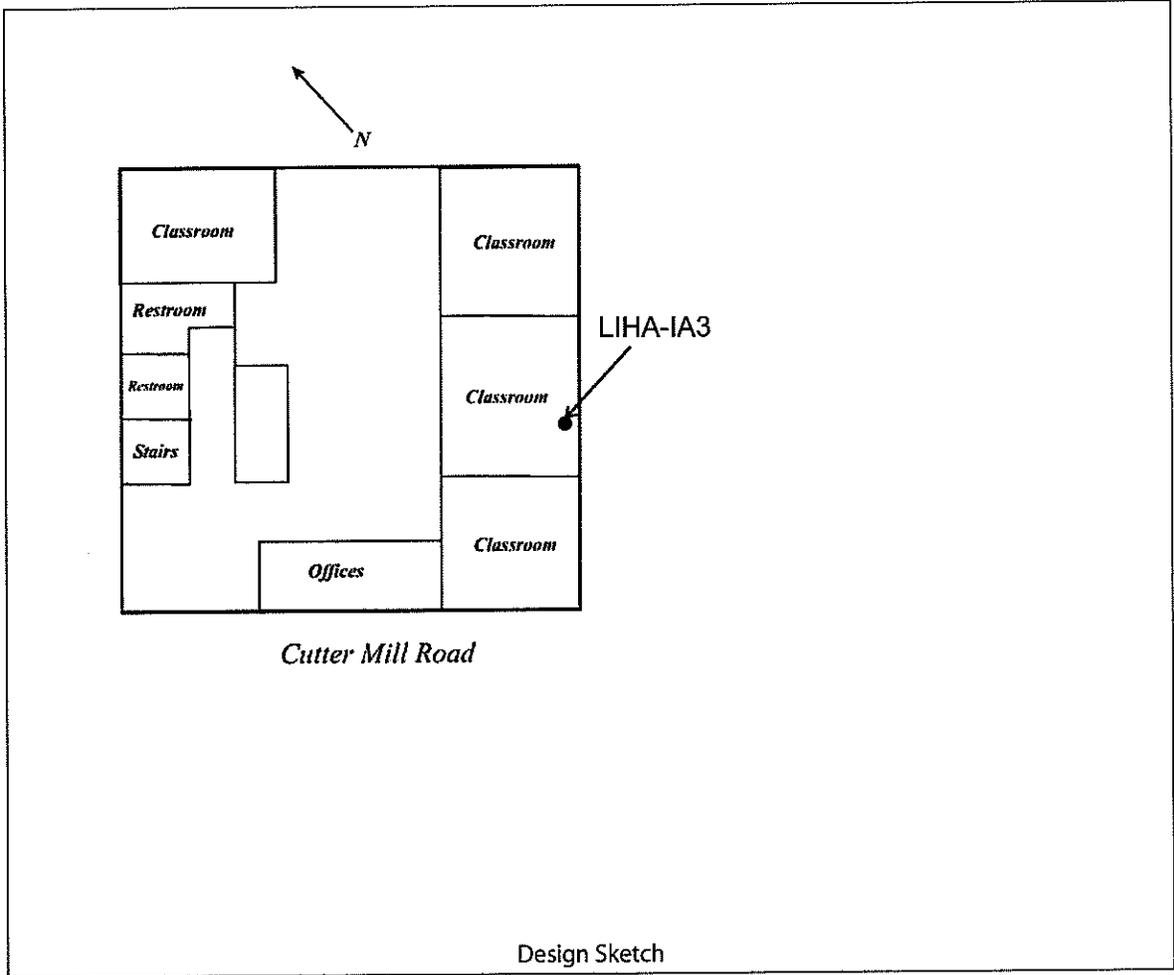


**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

**FIRST FLOOR BUILDING LAYOUT SKETCH**

Please click the box with the blue border below to upload a sketch of the first floor of the building. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



**Design Sketch Guidelines and Recommended Symbology**

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:
 

<b>B or F</b> Boiler or Furnace	○ Other floor or wall penetrations (label appropriately)
<b>HW</b> Hot Water Heater	<b>xxxxxxx</b> Perimeter Drains (draw inside or outside outer walls as appropriate)
<b>FP</b> Fireplaces	<b>#####</b> Areas of broken-up concrete
<b>WS</b> Wood Stoves	● SS-1 Location & label of sub-slab samples
<b>W/D</b> Washer / Dryer	● IA-1 Location & label of indoor air samples
<b>S</b> Sumps	● OA-1 Location & label of outdoor air samples
<b>@</b> Floor Drains	● PFET-1 Location and label of any pressure field test holes.

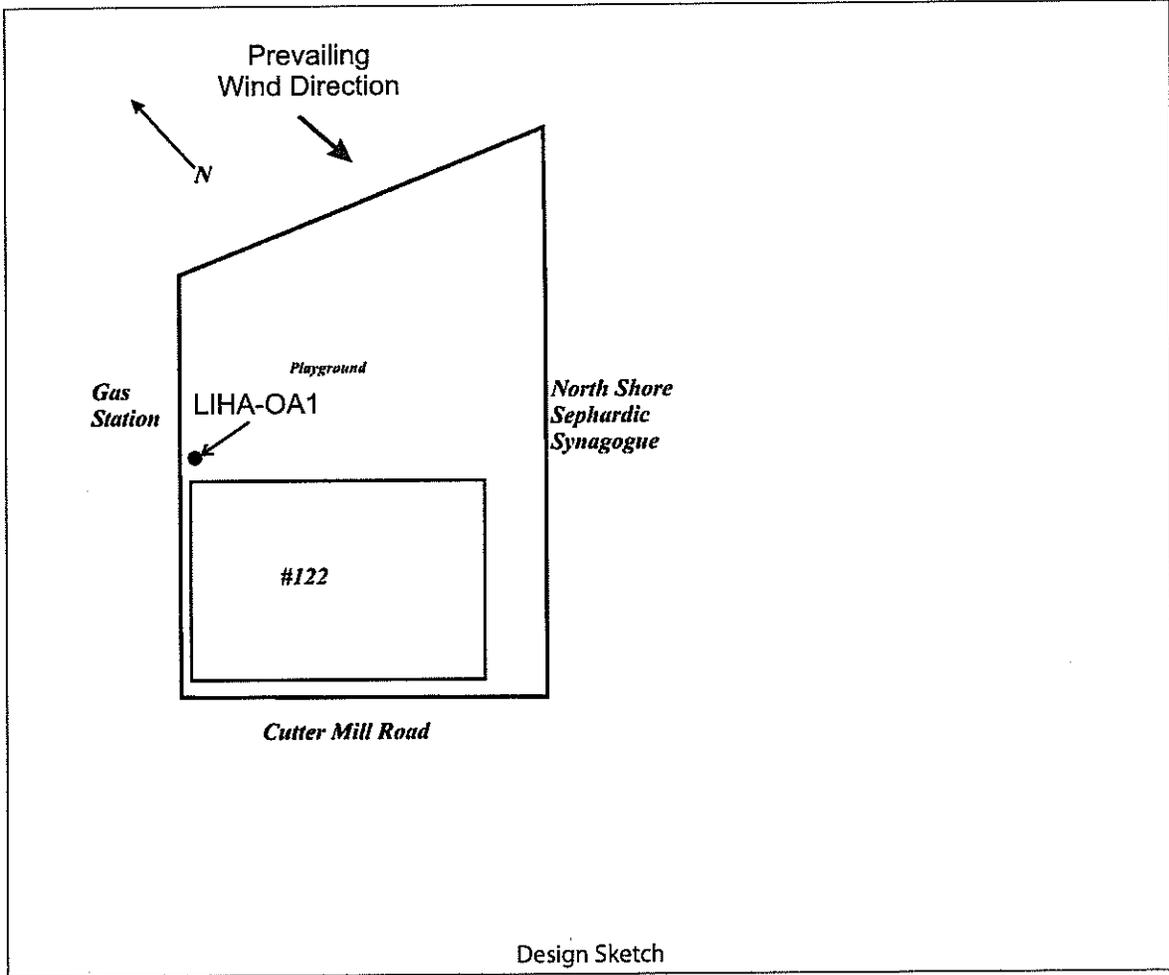


**Structure Sampling Questionnaire and Building Inventory**  
New York State Department of Environmental Conservation

**OUTDOOR PLOT LAYOUT SKETCH**

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

**Design Sketch Guidelines and Recommended Symbology**

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:
 

<b>B or F</b> Boiler or Furnace	○ Other floor or wall penetrations (label appropriately)
<b>HW</b> Hot Water Heater	xxxxxxx Perimeter Drains (draw inside or outside outer walls as appropriate)
<b>FP</b> Fireplaces	##### Areas of broken-up concrete
<b>WS</b> Wood Stoves	● SS-1 Location & label of sub-slab samples
<b>W/D</b> Washer / Dryer	● IA-1 Location & label of indoor air samples
<b>S</b> Sumps	● OA-1 Location & label of outdoor air samples
⊙ Floor Drains	● PFET-1 Location and label of any pressure field test holes.

# APPENDIX F

## Fire Safety Reports

Fire Safety Inspection Log  
 Stanton Dry Cleaners Site  
 NYSDEC Site No. 130072  
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
1	Exit signs internally or externally illuminated	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2	Smoke alarms tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3	Water leaks/water damage observed inside building	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4	Fire extinguishers within expiration or inspected annually	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5	All fire extinguishers present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6	Electrical Breaker Panel Issues	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7	Covers present on all junction boxes, electrical switches, and outlets	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8	Any evidence of pests present inside building (rodents, insects, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9	Emergency lighting tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing	Annual		
11	Battery powered emergency lighting tested	Annual		
12	Fire Extinguishers annual inspection	Annual		
13	Emergency Lighting Testing	Monthly		

Inspected By: *Dave Adan*

Inspection Date: *1-4-22*

Other Items Noted:

Fire Safety Inspection Log  
 Stanton Dry Cleaners Site  
 NYSDEC Site No. 130072  
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
1	Exit signs internally or externally illuminated	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2	Smoke alarms tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3	Water leaks/water damage observed inside building	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4	Fire extinguishers within expiration or inspected annually	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5	All fire extinguishers present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6	Electrical Breaker Panel Issues	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7	Covers present on all junction boxes, electrical switches, and outlets	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8	Any evidence of pests present inside building (rodents, insects, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9	Emergency lighting tested and functioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing <i>Removed</i>	Annual		
11	Battery powered emergency lighting tested	Annual	<i>12-12-22</i>	<i>12-19-23</i>
12	Fire Extinguishers annual inspection	Annual	<i>5-12-22</i>	<i>5-12-23</i>
13	Emergency Lighting Testing	Monthly	<i>2-15-23</i>	

Inspected By: *ZYS 2/3*  
 Inspection Date: *02/15/23*

Other Items Noted:

Fire Safety Inspection Log  
 Stanton Dry Cleaners Site  
 NYSDEC Site No. 130072  
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
		1	Exit signs internally or externally illuminated
2	Smoke alarms tested and functioning	<input checked="" type="radio"/> Yes	<input type="radio"/> No
3	Water leaks/water damage observed inside building	<input type="radio"/> Yes	<input checked="" type="radio"/> No
4	Fire extinguishers within expiration or inspected annually	<input checked="" type="radio"/> Yes	<input type="radio"/> No
5	All fire extinguishers present	<input checked="" type="radio"/> Yes	<input type="radio"/> No
6	Electrical Breaker Panel Issues	<input type="radio"/> Yes	<input checked="" type="radio"/> No
7	Covers present on all junction boxes, electrical switches, and outlets	<input checked="" type="radio"/> Yes	<input type="radio"/> No
8	Any evidence of pests present inside building (rodents, insects, etc.)	<input type="radio"/> Yes	<input checked="" type="radio"/> No
9	Emergency lighting tested and functioning	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing <i>Removed</i>	Annual		
11	Battery powered emergency lighting tested	Annual	12/19/22	12/19/23
12	Fire Extinguishers annual inspection	Annual	5/14/22	5/14/23
13	Emergency Lighting Testing	Monthly	3/15/23	

Inspected By: *KA/CSC*

Inspection Date: *3/15/23*

Other Items Noted: