



**2023 PERIODIC REVIEW REPORT
for**

**April 30, 2022 – April 30, 2023
Reporting Period**

**FORMER GROSSINGERS RESORT
LIBERTY, SULLIVAN COUNTY, NEW YORK**

NYSDEC Site # C353015

**prepared for:
SULLIVAN RESORTS, LLC
7 Renaissance Square
White Plains, New York 10601**

**prepared by:
SESI CONSULTING ENGINEERS
959 Route 46E, 3rd Floor, Suite 300
Parsippany, NJ 07054**

February 2024

Project No.: 09313

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LIST OF ACRONYMS

Acronym	Definition
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bgs	Below ground surface
CFCs	Chlorofluorocarbons
DER	Division of Environmental Remediation
DER-10	NYSDEC Technical Guidance for Site Investigation & Remediation
ECs	Engineering Controls
EE	Environmental Easement
HAL	USEPA Health Advisory Level
ICs	Institutional Controls
LNAPL	Light Non-Aqueous Phase Liquid
MCL	Maximum Contaminant Level
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbon
PFAS	Per and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
ppt	parts per trillion
PRR	Periodic Review Report
RI	Remedial Investigation
RI/IRM	Remedial Investigation/Interim Remedial Measure
RIWP	Remedial Investigation Work Plan
SCO	Soil Cleanup Objectives
SESI	SESI Consulting Engineers, PC
SMP	Site Management Plan
SV	Soil Vapor
SVI	Soil Vapor Investigation

Acronym	Definition
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TOGS	Technical and Operations Guidance Series
USCO	Unrestricted Use Soil Cleanup Objectives
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

1.1 SUMMARY

SESI Consulting Engineers DPC (SESI) prepared this Periodic Review Report (PRR) for the period April 30, 2022 to April 30, 2023 for the Former Grossingers Resort, New York State Brownfield Cleanup Program (BCP) Site No. C353015, located in Liberty, New York (hereinafter referred to as the "Site"). SESI prepared this PRR on behalf of Sullivan Resorts LLC, who entered into a Brownfield Cleanup Agreement (BCA) as Volunteers in April 2018 with the New York State Department of Environmental Conservation (NYSDEC) to remediate the Site.

Historically, Site development included a 272-room resort hotel, boiler room, laundry room, convention center, swimming pool, ice skating rink and its ancillary building, service building known as the Joy Cottage, service building known as the Harry G, and outdoor tennis courts constructed over time since 1950s. A downhill ski slope was located to the west of the main hotel buildings.

A remedial investigation (RI) was conducted in 2019 and the results of the soil sampling showed exceedances to the unrestricted use Soil Cleanup Objectives (USCOs) for benzene, ethylbenzene, 2-methylnaphthalene, Polycyclic aromatic hydrocarbon (PAHs), mercury and lead. The results of surface soil samples showed one (1) or more of the pesticides 4,4'-DDT, 4,4'-DDE and 4,4'-DDD, lead and PAHs above the USCOs. The Site investigation for soil vapor identified elevated concentrations of Trichlorofluoromethane (Freon-11), Dichlorodifluoromethane (Freon-12), benzene, and 1,3 butadiene. The Site investigation for groundwater showed exceedances to the Class GA Groundwater Standards for benzene, ethylbenzene, isopropyl benzene, lead, barium, nickel and beryllium, Freon-11, Freon-12. The per-and polyfluoroalkyl substances (PFAS) perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected at concentrations exceeding the U.S. Environmental Protection Agency Health Advisory Level (HAL) of 70 parts per trillion (ppt). The impacts at the Site are the result of a leaking underground storage tank (UST), historically applied pesticides, and other historical Site facilities.

The Site has been remediated to conditional Track 1. The remaining Engineering Control (EC) is groundwater monitoring. There are no engineering controls for soil vapors because

the Site does not have any buildings; however, a vapor intrusion investigation is ongoing. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to the remaining contamination to ensure protection of public health and the environment. An Environmental Easement (EE) was granted to the NYSDEC and recorded by the Site owners with the Sullivan County Clerk, and it requires compliance with a Site Management Plan (SMP) and the ICs and ECs placed on the Site. These ICs currently allow for residential, restricted residential use, commercial, and industrial uses, but prohibit the use of groundwater without necessary water quality treatment. The ECs require quarterly groundwater monitoring for natural attenuation. A Site Location Map is provided in Figure 1.1 of the SMP. All SMP figures are included in **Appendix A** of this report.

This PRR reports the required inspection and monitoring activities that were conducted during the current reporting period. The inspection and monitoring were conducted to ensure compliance with the ICs required by the EE and as stated in the SMP as approved by NYSDEC.

1.2 EFFECTIVENESS OF REMEDIAL PROGRAM

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an on-site monitoring well network including MW-203, MW-204, MW-206, MW-207, MW-209, MW-213, MW-214, MW-216, and MW-217 was sampled for volatile organic compounds (VOCs) and PFAS. As presented in Section 3, Freon 11 and Freon 12 levels detected in monitoring wells MW-213, MW-214, MW-216, and MW-217 have been generally decreasing since February 2019, and Freon 11 levels in MW-214 and MW-216 and Freon 12 levels in MW-216 and MW-217 are below the Ambient Water Quality Standards (AWQS).

The PFOS and PFOA levels detected in exceedances in monitoring wells MW-203, MW-204, MW-206, MW-207, MW-213, MW-214, MW-216, and MW-217 have been generally decreasing or remained stable since February 2019. PFOS levels in MW-204, MW-206 and MW-207 are all below the AWQS, and moderate increases were observed in MW-203, MW-216 and MW-217 since the July 2022 sampling event. PFOA levels in MW-203,

MW-204, MW-206, MW-207, MW-216 and MW-217 are all below the AWQS, and decreases were observed in MW-213 and MW-214 since the July 2022 sampling event.

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 during this monitoring period. As presented in Section 3, the highest detected levels of Freon 11 and Freon 12 across the Site have generally decreased in the post-Certificate of Completion (COC) sampling rounds. Levels in SMPV-1, SMPV-10, and SMPV-14 have shown decreases since March 2020, with levels in SMPV-2, SMPV-11, SMPV-12, and SMPV-13 fluctuating but showing levels lower than the previously reported maximum levels.

1.3 COMPLIANCE

In accordance with the SMP for the Site, SESI sampled the groundwater well network in March 2020, September 2020, April 2021, September 2021, November 2021, July 2022, and June 2023. Soil vapor samples were collected in March 2020, April 2021, September 2021, July 2022, and June 2023 (snow cover made some sampling events not possible).

1.4 CONCLUSIONS AND RECOMMENDATIONS

SESI has conducted monitoring and sampling in compliance with the Site SMP and has verified that the ECs and ICs are in compliance.

SEIS recommends the following for the next reporting period:

- Conduct one (1) final sampling event in January 2024 for Freon 11 in monitoring wells MW-213 and MW-217 to confirm the decreasing trend.
- Conduct one (1) final sampling event in January 2024 for Freon 12 in monitoring wells MW-213 and MW-214 to confirm decreasing trend.
- Conduct one (1) final sampling event in January 2024 for PFOS in monitoring wells MW-203, MW-213, MW-214, MW-216, and MW-217 to confirm decreasing trend.
- Conduct one (1) final sampling event in January 2024 for PFOA in monitoring wells MW-213 and MW-214 to confirm decreasing trend.
- No further sampling of monitoring of wells MW-201, MW-204, MW-205, MW-206, MW-207, MW-209, MW-210, and MW-211.
- SESI recommends one final sampling of vapor points SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 in January 2024, at which point levels will

be assessed and a decision will be made with respect to the need for further sampling (note that the US EPA does not regulate Freon-11 for Vapor Intrusion Screening Levels).

- Soil vapor monitoring of the onsite vapor monitoring points SMPV-1 and SMPV-3 shows that the soil vapor concentrations in these sampling points have reached asymptotic levels. Therefore, SESI recommends no further sampling of vapor monitoring points SMPV-1 and SMPV-3.
- Prepare a final Periodic Review Report to evaluate current groundwater and soil vapor concentrations and make recommendation to terminate institutional and engineering controls at the Site; report to be submitted in March 2024.

2.0 SITE OVERVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in New Liberty, Sullivan County, New York, and is identified as a portion of tax parcel ID number 30-1-1.1 on the Sullivan County Tax Map. A United States Geological Survey (USGS) topographical quadrangle map, SMP Figure 1.1 in **Appendix A**, shows the Site location. The Site is an approximately 17.30-acre area bounded by residential dwellings and undeveloped woodlands along Route 52 to the north, Route 52 and multiple commercial dwellings to the south, residential dwellings and commercial properties along Sunset Lake to the east, and the Middle Mongaup River and commercial properties along Route 17 to the west. A boundary map is attached to the amended BCA as required by Environmental Conservation Law Title 14 Section 27-1419 and is shown on SMP **Figure 1.2 in Appendix A**.

2.2 SITE HISTORY

The Site is part of the former Grossingers Resort, developed in 1916. The resort hotel was composed of more than three dozen buildings with a total floor area of approximately 700,000 square feet. The resort featured indoor and outdoor tennis facilities, indoor and outdoor pools, a championship golf course, a skating rink, skiing facilities, horse trails and more. Since its closure in 1986 and prior to the implementation of the Remedial Investigation/Interim Remedial Measure (RI/IRM), the hotel complex had been shuttered and many of the old resort hotel structures remained. The structures were well beyond repair and required demolition. This Site is currently vacant; all operations on the Site ceased around 1986. However, the golf course is still active and is not part of the Site.

2.2.1 REMEDIAL INVESTIGATION (RI) CONDUCTED AT THE SITE

The Remedial Investigation Report/Interim Remedial Measure Construction Completion Report prepared by SESI in December 2019 details the results of prior investigations and the RI performed on the Site. The RI was conducted in accordance with the Remedial Investigation\Interim Remedial Measures Work Plan (RI/IRMWP) for the Site, which was submitted to NYSDEC on October 3, 2018 and subsequently approved by the NYSDEC on October 16, 2018.

The results of the remedial investigation soil sampling showed exceedances to the USCOs for benzene, ethylbenzene, 2-methylnaphthalene, PAHs, mercury and lead.

After the demolition and removal of the building foundations, a soil boring investigation was conducted in every building footprint to determine the environmental conditions of the uncovered areas. The soil boring investigation included performing 24 additional soil borings (SB-51 to SB-74) at the Site. Two (2) soil samples were collected from each boring. Soil borings were also conducted around the boiler room, which contained two (2) 15,000-gallon No. 4 heating oil USTs. Light non-aqueous phase liquid (LNAPL) was observed in borings in the boiler room area. (This LNAPL was subsequently removed as part of the remedial action.) The soil boring locations are shown on SMP Figure 2.2 in **Appendix A**. The exceedances shown on SMP Figure 2.2 in **Appendix A** are the exceedances left post remediation as described below in Section 2.2.5.

All soil borings were advanced to a minimum of 15 ft-bgs or to bedrock, whichever was encountered first. Two (2) soil samples were collected from each boring. Sample collection depths from each boring location were biased based on the field screening which included photo ionization detector, visual, and olfactory observations. If the field screening did not result in any impacts, the soil samples were collected at the six-inch interval above the water table and at the deepest six-inch interval, which is just above bedrock. All samples were analyzed for Target Compound List/Target Analyte List (TCL/TAL) +30 tentatively identified compounds.

The results of the soil boring samples showed PAHs were detected above the unrestricted use SCOs in a soil sample collected from boring SB-62 at concentrations ranging from 3.23 mg/kg to 8.15 mg/kg. The pesticide 4,4'-DDE was detected in soil boring SB-66 (3.5 to 4.0 feet) above the unrestricted use SCO at a concentration of 0.005 mg/kg. In soil boring SB-73 (11.5 to 12.0), the pesticides 4,4'-DDT (0.014 mg/kg), 4,4'-DDE (0.027 mg/kg) and 4,4'-DDD (0.008 mg/kg) were detected above the unrestricted use SCOs. All these exceedances were excavated as part of the remedial action as described below; the remaining exceedances shown on SMP Figure 2.2 in **Appendix A** are described in Section 2.2.5 below.

Surface Soil Sampling

Surface soil samples were initially collected at ten (10) locations during October and November 2018 after most of the buildings were demolished. The surface soil sample locations were determined after the vegetation was removed based on field screening, visual observations of stained soils and historic data. Surface soil samples were collected from the 0.0 to 2-inch interval below ground surface.

The results of the ten (10) surface soil samples showed one (1) or more of the pesticides 4,4'-DDT, 4,4'-DDE and 4,4'-DDD were detected above the unrestricted use SCO in seven (7) of the ten (10) surface soil samples at concentrations ranging from 0.005 mg/kg to 0.061 mg/kg. Lead was detected in surface soil sample SS-3 above the unrestricted use SCO at 67.1 mg/kg. PAHs were detected above the unrestricted use SCO in sample SS-5 at concentrations ranging from 3.96 mg/kg to 9.92 mg/kg.

To determine the horizontal and vertical extent of the pesticides, additional surface soil samples were collected at 15 locations within the BCP Area during November and December 2018. Two (2) samples were collected from each location at the 0 to 2-inch below grade interval and the 6 to 8-inch below grade interval after the vegetation was removed. The soil samples were collected using a stainless-steel trowel or shovel and delivered to Test America Laboratories for pesticide analysis on a 24-hour turnaround time. Care was taken when collecting the soil samples not to cross-contaminate between sample intervals and sample locations. The stainless-steel trowel or shovel was decontaminated prior to each use with a detergent wash and distilled water rinse. Any fall in from the surrounding soil was removed prior to collecting the sample. All surface soil exceedances were excavated except for the exceedances shown on SMP Figure 2.3 in **Appendix A**. The remaining soil exceedances are described in Section 2.2.5 below.

After demolition of the buildings, eight (8) additional surface soil samples were collected beneath the former buildings during June 2019. Pesticide exceedances to the unrestricted use SCO were detected in three (3) of the eight (8) samples.

Soil Vapor Sampling

A soil vapor investigation was determined to be necessary in preparation for the planned development on the Site, which may include buildings. To evaluate the potential for future exposures in the future building, SESI designed a soil vapor investigation (SVI) in accordance with the NYS Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion (Guidance) (October 2006). The SVI plan was included in the RI/IRMWP submitted to the NYSDEC on October 3, 2018 and subsequently approved on October 16, 2018.

During the period from November 30, 2018 to December 14, 2018, ten (10) soil vapor (SV) samples (V-1, V-2, V-3, V-10, V-11, V-12, V-13, V-14, V-15, and V-16) were collected across the Site. The sample locations and results are presented on SMP Figure 2.4 in **Appendix A**. The soil vapor samples were collected from vapor points installed in the vadose zone to a depth of 2 or 3 ft-bg. Planned SV sample locations V-4 through V-9 were not installed because they are all in the former LNAPL area, which was subsequently remediated by excavation to bedrock.

A second round of soil vapor samples was collected from February 8 to 11, 2019. SV samples were collected from locations V-1, V-2, V-11, V-12, V-13 and V-14. SESI attempted to collect samples from the remaining locations; however, melting ice and snow caused the vapor points to fill up with water. The soil vapor results were compared to the NYSDOH October 2006 air guideline values, which does not include values for soil vapors.

The soil vapor results showed that benzene was detected in samples V-1 (24 ug/m³), V-10 (40 ug/m³) and V-14 (18 ug/m³). Soil vapor point V-1 is located in the former tennis court area. Soil vapor point V-10 is located south of the former indoor pool and V-14 is located near the western boundary of the BCP area. The compound 1,3-butadiene was also detected in samples V-1 (66 ug/m³), V-3 (28 ug/m³), V-11 (53 ug/m³), V-15 (60 ug/m³) and V-16 (57 ug/m³). Soil vapor point V-3 is located beneath the former convention center, V-11 is located at the southeast portion of the BCP and V-15 and V-16 are located in the former ski maintenance area. The results of the soil vapor samples collected from February 8 to February 11, 2019 showed trichlorofluoromethane in all six (6) samples at concentrations ranging from 2,300 ug/m³ at V-2 to 660,000 ug/m³ at V-11.

Dichlorodifluoromethane was detected at concentrations ranging from 110 ug/m³ at V-2 to 680,000 ug/m³ at V-13. Benzene was detected in soil vapor point V-14 at 16 ug/m³. The compound 1,3-butadiene was not detected in any of the vapor points sampled in February 2019.

Groundwater Sampling

The Site investigation for groundwater included the installation of five (5) monitoring wells. The results of the groundwater sample showed exceedances to the Class GA AWQS for benzene, ethylbenzene, isopropyl benzene, lead, barium, nickel and beryllium. These wells were abandoned prior to the implementation of the IRM.

Initially, twelve (12) groundwater monitoring wells (MW-201 through MW-212) were installed. The wells were installed to replace the abandoned wells, investigate potential impacts to groundwater from the soil contamination and delineate groundwater contamination upgradient and downgradient from the former, since remediated, boiler room/LNAPL area.

The twelve (12) groundwater monitoring wells (MW-201 through MW-212) were gauged for depth to LNAPL/depth to groundwater after they were installed and developed. A sheen was detected in five (5) monitoring wells (MW-202, MW-203, MW-204, MW-205 and MW-206) located within the boiler room/LNAPL area. Therefore, these five (5) wells located in the former UST/LNAPL area were not sampled. In later sampling events, wells MW-203, MW-204, MW-205 and MW-206 were sampled because there was no LNAPL detected; and MW-202 was destroyed and never sampled. The remaining wells were sampled for TCL/TAL+30, 1-4 dioxane and PFAS in accordance with the RI/IRMWP. During the December 2018 sampling event, one (1) well (MW-207) resulted in exceedances of the AWQS for Freon-12 and Freon-11. There were no other exceedances for any of the other TCL/TAL compounds or 1,4 dioxane in any of the wells. The groundwater sampling results are presented in on SMP Figure 2.8 in **Appendix A**.

Based on the NYSDEC January 10, 2019 comments, three (3) monitoring wells (MW-213, MW-214, and MW-215) were installed at the Site on January 17, 2019. MW-215 was installed in the ski maintenance area to replace MW-1. Two (2) monitoring wells (MW-

216 and MW-217) were installed in July 2019 along the western boundary of the BCP site area for downgradient delineation of the Freon.

An additional round of groundwater samples was collected from the previous and new monitoring wells on January 29, 2019 and from February 6 to February 8, 2019. The samples were analyzed for TCL/TAL+30, and select wells, where PFAS were previously detected, were analyzed also for PFAS. The results of the groundwater samples collected on January 29 and February 6 through 8, 2019 showed Freon-12 and Freon-11 exceedances in well MW-213. No other exceedances of the Groundwater Class GA Effluent Standards were detected in any of the wells sampled. This includes MW-207, which previously had exceedances for Freon-12 and Freon-11.

As a result of the Freon exceedances in well MW-213, on July 10, 2019 two (2) additional monitoring wells (MW-216 and MW-217) were installed to the north of well MW-213 to delineate the northern extent of the Freon plume. The results of the groundwater sampling for wells MW-216 and MW-217 showed Freon 12 and Freon 11 above 5 ug/l in monitoring well MW-216 at concentrations of 48 ug/l and 120 ug/l, respectively. Freon 11 was detected in monitoring well MW-217 at a concentration of 12 ug/L. Freon 12 was not detected in monitoring well MW-217.

The PFAS compounds PFOS and PFOA were detected in well MW-207 at concentrations of 91 and 100 ppt, respectively. PFOS and PFOA are present at a maximum combined concentration of 159 ppt in MW-206 and 191 ppt in MW-217, compared to the current U.S. Environmental Protection Agency HAL of 70 ppt.

2.2.2 DESCRIPTION OF INTERIM REMEDIAL MEASURES

The following IRM were conducted in accordance with the NYSDEC approved RI/IRMWP.

1. Removal of two (2) USTs that were present under the boiler room slab and the clean-up of the resulting LNAPL discharge area.
2. Basin Sediment: Removal of sediments that contained metals exceedances, and excavation around the outlet area until confirmed clean post-excavation samples (which did not exceed the USCOs) were obtained.

3. Stockpile D: Disposal of the stockpiled material and sampling in the stockpile area to confirm removal of all contaminants that exceeded the unrestricted SCOs.
4. Ice Skating Rink: Excavation of the area around SB-14, which contained PAH and VOC exceedances, on a 25-foot radius to a depth of 1-foot. Collection of bottom and side wall samples to document the remedial action.
5. Joy Cottage: Excavation of the area around SB-38, which contained pesticide exceedances, on a 25-foot radius to a depth of 1.5-foot. Collection of bottom and side wall samples to document the remedial action.
6. Ski Maintenance Area: Excavation of the area around SB-16, which had metal exceedances, on a 25-foot radius to depth of 1.5-foot and around SB-41, which had pesticide exceedances, on a 25-foot radius to a depth of 1.5 foot. Collection of bottom and side wall samples to document remedial action.
7. From August 2018 through December 2018, SESI observed Capital Wrecking remove structures on the Site, remove two (2) USTs, and excavate contaminated soil. Air monitoring was conducted in accordance with the Community Air Monitoring Plan.

2.2.3 DESCRIPTION OF REMEDIAL ACTIONS

The site was remediated in accordance with the remedy selected by the NYSDEC in the RI/IRMWP dated October 2018.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation and off-Site disposal of on-Site soils which exceed USCOs, as defined by 6 NYCRR Part 375-6.8.
2. Closure of the two (2) USTs by removal of all observable LNAPL in soil and weathered shale;
3. Collection and analysis of end-point samples at the bottom and sidewalls of all the excavations to evaluate the remedy by comparing results to the Track 1 USCOs.

4. Execution and recording of an Environmental Easement to restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH.
5. Development and implementation of an SMP for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance, and (4) reporting.
6. Periodic certification of the institutional and Engineering Controls listed above.

2.2.4 ON-SITE AND OFF-SITE TREATMENT SYSTEMS

No long-term treatment systems were required to be installed as part of the site remedy.

2.2.5 MANAGEMENT OF RESIDUAL CONTAMINATION THROUGH INSTITUTIONAL AND ENGINEERING CONTROLS IN THE ENVIRONMENTAL EASEMENT

The Site has conditionally achieved a Track 1 remedy. Until that is changed to an unconditional remedy, the Department requires that an Environmental Easement (EE) be placed on the Site to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling the use of groundwater; and (3) limit the use and development of the site to residential, restricted residential, commercial and industrial uses. An SMP (December 2019) was prepared by SESI and approved by the NYSDEC for the long-term management and monitoring of the EE requirements.

The SMP lists the institutional controls (ICs) and engineering controls (ECs) required by the NYSDEC to manage the residual contamination present at this Site (discussed in Section 3.0) to protect public health and the environment in the future and keep the Site safe for reuse. The remedy for the Site did not require the construction of any other Engineering Control systems, however, groundwater monitoring is included as an engineering control.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, PROTECTIVENESS

The goal of the SMP is to manage the residual contamination at the Site through implementation of ICs until the Department determines that the conditional Track 1 designation can be changed to an unconditional Track 1. At present, SESI is conducting monitoring/inspection of the ICs and ECs on the Site in accordance with the SMP dated December 2019.

Groundwater Monitoring

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an onsite monitoring well network including MW-201, MW-203, MW-204, MW-205, MW-206, MW-207, MW-209, MW-210, MW-211, MW-213, MW-214, MW-216, and MW-217 was sampled periodically for VOCs and PFAS since the issuance of the COC. Monitoring well MW-208 has been damaged and is no longer sampled. Monitoring well MW-212 and MW-209 are frequently not sampled due to insufficient water levels. Monitoring wells MW-201, MW-205, MW-210, or MW-211 were not sampled in the June 2023 sampling event, per the recommendation made in a previously submitted PRR.

The available groundwater sampling and purging logs are presented for the June 2023 sampling event are presented in **Appendix B. Table 3.1** presents the groundwater analytical result summary compared to the AWQS. The laboratory data of the sampling events for this monitoring period are presented in **Appendix C**.

Table 3.2 below and **Figure 3.1** present a summary of VOC exceedances in groundwater and **Chart 1** and **Chart 2** illustrate the historic data trends in each well for Freon 11 and Freon 12. Freon 11 concentrations detected during the June 2023 sampling event have decreased in MW-213, MW-214, MW-216, and MW-217 in comparison with the July 2022 sampling event. No Freon-11 exceedances were detected in monitoring wells MW-214 and MW-216 during this monitoring period.

Freon 12 was analyzed for samples collected from monitoring wells MW-213, MW-214, MW-216 and MW-217. Freon 12 concentrations detected during the June 2023 sampling event have decreased in MW-213, MW-14, and MW-216 in comparison with the June

2022 sampling event. No Freon 12 exceedances were detected in monitoring wells MW-216 or MW-217 during this monitoring period.

Table 3.2 Summary of Historical VOC Exceedances in Groundwater

LOCATION					MW-213		MW-213		MW-213		MW-213		MW-213		MW-213		MW-213		
SAMPLING DATE					1/29/2019		3/4/2020		9/2/2020		4/27/2021		9/8/2021		11/19/2021		7/12/2022		6/29/2023
SAMPLE TYPE					Water	Q	WATER		WATER		WATER		WATER		WATER		WATER		WATER
	NY-AWQS	Units			Results		Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results
Trichlorofluoromethane (Freon 11)	5	ug/l			48		71		56		52		48		61		37		24
Dichlorodifluoromethane (Freon 12)	5	ug/l			29		74		40		54		41		45		31		23

LOCATION					MW-214		MW-214		MW-214		MW-214		MW-214		MW-214		MW-214			
SAMPLING DATE					1/29/2019		3/4/2020		9/3/2020		4/27/2021		9/9/2021		11/22/2021		7/12/2022		6/29/2023	
SAMPLE TYPE					Water	Q	WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	NY-AWQS	Units			Results		Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	
Trichlorofluoromethane (Freon 11)	5	ug/l			0.14	U	10		5.1		5.4		1	J	3		2.5		1.5	J
Dichlorodifluoromethane (Freon 12)	5	ug/l			0.88	J	27		16		21		5	U	10		9.9		6.9	

LOCATION					MW-216		MW-216		MW-216		MW-216		MW-216		MW-216		MW-216			
SAMPLING DATE					7/10/2019		3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023	
SAMPLE TYPE					Water	Q	WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	NY-AWQS	Units			Results		Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	
Trichlorofluoromethane (Freon 11)	5	ug/l			120		48		6.9		29		5.3		4.7		5.5		4	
Dichlorodifluoromethane (Freon 12)	5	ug/l			48		15		3.9		11		3.6	J	3.5	J	3.6	J	2.4	J

LOCATION					MW-217		MW-217		MW-217		MW-217		MW-217		MW-217		MW-217			
SAMPLING DATE					7/10/2019		3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023	
SAMPLE TYPE					Water	Q	WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	NY-AWQS	Units			Results		Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	
Trichlorofluoromethane (Freon 11)	5	ug/l			12		22		5.6		47		55		62		52		18	
Dichlorodifluoromethane (Freon 12)	5	ug/l			5	U	5	U	0.31	U	5	U	5	U	5	U	5	U	5	U

Notes:

1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

Table 3.3 below and **Figure 3.1** present a summary of PFOS and PFOA exceedances in groundwater and **Chart 3** and **Chart 4** illustrate the historic data trends in each well for PFOS and PFOA. The PFOS exceedances were detected in monitoring wells MW-203, MW-213, MW-214, MW-16, and MW-217 during the June 2023 sampling event. While the general trend has been decreasing for PFOS in all wells, PFOS concentrations showed a slight increase in concentrations in June 2023 in MW-203, MW-216, and MW-217 in comparison with the July 2022 results.

The PFOS exceedances were detected only in monitoring wells MW-213 and MW-214 during the June 2023 sampling event. The general trend has been decreasing for PFOA in all wells, with most wells indicating levels below the AWQS.

Table 3.3 Summary of Historical PFAS Exceedances in Groundwater

LOCATION			MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
SAMPLING DATE			2/7/2019	3/5/2020	9/2/2020	4/28/2021	9/8/2021	11/22/2021	7/11/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	37		27.9		25		14.5		18	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	22.3		6		5.15		3.26		3.28	
											1.82	J
											1.82	U
												2.89
LOCATION			MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204
SAMPLING DATE			3/5/2020	3/5/2020	9/2/2020	4/27/2021	9/9/2021	11/22/2021	7/11/2022			
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	5.05		5.05		12.1		4.41		7.56	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	2.22		2.22		3.94		1.53	J	1.95	
											1.28	JF
											1.8	U
LOCATION			MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206
SAMPLING DATE			2/6/2019	3/5/2020	9/2/2020	4/27/2021	9/9/2021	11/22/2021	7/11/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	51.9		47.9		38.7		30.9		32.5	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	107		25.5		12.1		26		14.6	
											13.1	
											1.79	U
												5.6
LOCATION			MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207
SAMPLING DATE			2/6/2019	3/5/2020	9/3/2020	4/27/2021	9/9/2021	11/22/2021	7/11/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	34		11.3		22.1		8.36		29.9	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	23.4		6.59		5.46		2.2		9.68	
											3.64	
											1.8	U
												1.8
												U
LOCATION			MW-208	MW-208								
SAMPLING DATE			2/7/2019	3/5/2020								
SAMPLE TYPE			WATER	WATER								
	NY-AWQS	Units	Results	Q	Results	Q						
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	17.6		68.2							
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	10.8		38.2							
LOCATION			MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213
SAMPLING DATE			1/29/2019	3/4/2020	9/2/2020	4/27/2021	9/8/2021	11/19/2021	7/12/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	91.2		73.4		60.7		70		64.1	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	40.4		32.8		26.5		27.7		24	
											25.4	
											1.03	J
												14.4
LOCATION			MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214
SAMPLING DATE			1/29/2019	3/4/2020	9/3/2020	4/27/2021	9/9/2021	11/22/2021	7/12/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	48.5		47.3		46.6		40.3		30.5	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	68.6		29.9		25.8		29.5		15.9	
											24.7	
											0.826	J
												21.1
												J
LOCATION			MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216
SAMPLING DATE			7/10/2019	3/6/2020	9/3/2020	4/28/2021	9/8/2021	11/19/2021	7/11/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	29.4		6.51		24.8		24.9		20.8	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	17.9		8.18		9.39		10.8		11.7	
											9.79	
											1.78	U
												6.12
LOCATION			MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217
SAMPLING DATE			7/10/2019	3/6/2020	9/3/2020	4/28/2021	9/8/2021	11/19/2021	7/11/2022	6/29/2023		
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l	17		30		42.1		19.5		38.6	
Perfluorooctanoic Acid (PFOA)	6.7	ng/l	16.5		15.7		13.8		14.6		21.4	
											12.8	
											2.26	
											1.74	U
												4.67

Notes:

- Results are shown in micrograms per liter (ug/L)
- Yellow shading denotes exceedances of NYSDEC PFAS Screening Values
- Bold = Compound Detected
- Q = Qualifier
- U = Compound Not Detected

6. J = Estimated Concentration

Soil Vapor

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 during this monitoring period. **Table 3.4** presents the vapor analytical results. The analytical data are presented in **Appendix D**. The soil vapor locations are depicted in **Figure 3.2**. No comparison has been made to standards as New York State does not have guidance values or standards for VOCs in soil vapor.

As shown on **Table 3.4** below, detections of Freon-11 were identified in vapor points SMPV-1, SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 at concentrations ranging from 2.39 ug/m³ (SMPV-1 June 2023) to 725 ug/m³ (SMPV-11 June 2023). Freon 11 soil vapor concentrations from the June 2023 sampling event have remained stable and have reached asymptotic levels except for SMPV-13. SMPV-13 levels have gone down since June 2022, but are higher than earlier samples collected shortly after the remediation was completed.

Freon-12 was detected in soil vapor points SMPV-1, SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 at concentrations ranging from 2.43 ug/m³ (SMPV-1, June 2023) to 1,230 ug/m³ (SMPV-13, June 2023). Freon-12 soil vapor concentrations have remained stable in comparison with the historical sampling events except for SMPV-13. SMPV-13 levels have gone down since June 2022, but are higher than earlier samples collected shortly after the remediation was completed.

It should be noted that the US EPA does not regulate Freon-11 for Vapor Intrusion Screening Levels (VISL) (https://epa-visl.ornl.gov/cgi-bin/visl_search).

Table 3.4: Summary of Historical Soil Vapor Results

LOCATION	V-1		V-1		SMPV-1		SMPV-1		SMPV-1		SMPV-1		SMPV-1	
SAMPLING DATE	12/14/2018		2/11/2019		3/6/2020		4/29/2021		9/20/2021		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	66		370	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U
Benzene	24		590	U	0.811		2.37		1.65		5.24		9.01	
Trichlorofluoromethane (FREON 11)	3.5	U	380000	B	4.24		2.56		6.57		5.9		2.39	
Dichlorodifluoromethane (FREON 12)	9.9	U	2600	U	3.21		2.36		2.09		3.63		2.43	

LOCATION	V-2		V-2		SMPV-2		SMPV-2		SMPV-2		SMPV-2		SMPV-2	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/29/2021		9/20/2021		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	3.5	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U
Benzene	2.3	U	5.6	U	0.639	U	1.52		1.53		7.16		12.3	
Trichlorofluoromethane (FREON 11)	3.5		2300	B	1.12	U	21.5		58.4		27.2		22.7	
Dichlorodifluoromethane (FREON 12)	9.9	U	110		2.16		2.52		2.62		3.26		2.5	

LOCATION	V-3		SMPV-3		SMPV-3		SMPV-3	
SAMPLING DATE	12/14/2018		3/6/2020		4/29/2021		7/12/2022	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	28		0.442	U	0.442	U	0.442	U
Benzene	5.1	J	0.639	U	2.87		0.639	U
Trichlorofluoromethane (FREON 11)	26		3.2		1.21		2.11	
Dichlorodifluoromethane (FREON 12)	140		4.84		2.34		3.89	

LOCATION	V-10		SMPV-10		SMPV-10		SMPV-10		SMPV-10		SMPV-10		SMPV-10	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021		9/20/2021		7/12/2022		6/29/2023			
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q		
1,3-Butadiene	1.4	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U		
Benzene	40		1.09		1.9		0.639	U	8.79		3.19			
Trichlorofluoromethane (FREON 11)	3.5	U	111		21.5		7.81		43.9		30.4			
Dichlorodifluoromethane (FREON 12)	9.9	U	73.2		8.41		2.67		10.3		5.59			

LOCATION	V-11		V-11		SMPV-11		SMPV-11		SMPV-11		SMPV-11		SMPV-11	
SAMPLING DATE	12/13/2018		2/11/2019		3/6/2020		4/28/2021		9/20/2021		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	53		510	U	0.442	U	0.442	U	0.442	U	2.21	U	1.84	U
Benzene	11		810	U	0.652		2.87		0.639	U	21.2		6.26	
Trichlorofluoromethane (FREON 11)	62		660000	B	9.72		238		1210		1700		725	
Dichlorodifluoromethane (FREON 12)	9.9	U	3500	U	2.52		2.24		2.38		4.94	U	7.32	

LOCATION	V-12		V-12		SMPV-12		SMPV-12		SMPV-12	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5.7	U	0.442	U	0.442	U	0.442	U
Benzene	2.3	U	5.7	U	0.639	U	6.9		4.31	
Trichlorofluoromethane (FREON 11)	3.5	U	5300	B	1.82		3.53		22.1	
Dichlorodifluoromethane (FREON 12)	9.9	U	25	U	2.73		2.8		3.58	

LOCATION	V-13		SMPV-13		SMPV-13		SMPV-13		SMPV-13		SMPV-13	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021		9/20/2021		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	0.14	U	0.878		0.442	U	0.442	U	0.923	U	0.442	U
Benzene	0.23	U	0.639	U	1.38		0.984		10.4		8.95	
Trichlorofluoromethane (FREON 11)	13		48.7		105		91		691		289	
Dichlorodifluoromethane (FREON 12)	69		285		376		96.9		2950		1230	

LOCATION	V-14		V-14		SMPV-14		SMPV-14		SMPV-14		SMPV-14		SMPV-14	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/28/2021		9/20/2021		7/12/2022		6/29/2023	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U
Benzene	18		16	J	1.51		0.834		0.958		6.23		10.4	
Trichlorofluoromethane (FREON 11)	4.5	J	4600	B	826		447		72.5		181		61.3	
Dichlorodifluoromethane (FREON 12)	21	J	1400		82.1		10.6		3.16		40.5		2.89	

Notes:

1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

Institutional and Engineering Controls

The Site remedy requires that an EE be placed on the property to (1) implement, maintain and monitor the Institutional and Engineering Controls; (2) prevent future exposure to remaining contamination by controlling the use of groundwater; and (3) limit the use and development of the site to residential, restricted residential, commercial and industrial uses. An SMP (December 2019) was prepared by SESI and approved by the NYSDEC for the long-term management and monitoring of the EE requirements.

A series of ICs and ECs is required to prevent future exposure to remaining contamination. Adherence to these ICs and ECs on the Site is required and will be implemented under the EE and SMP. The boundaries are shown on SMP Figure 3.1 and the requirements include:

- The property may be used for residential, restricted residential, commercial, and industrial use;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Sullivan County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP; all ECs must be inspected at a frequency and in a manner defined in the SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on SMP Figure 3.1, and any potential impacts that are identified must be monitored or mitigated.

Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC Division of Environmental Remediation (DER-10) Technical Guidance for Site Investigation and Remediation (May 3, 2010).

Monitoring Wells Associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue as determined by the NYSDEC, with consultation with NYSDOH, until residual concentrations of the dissolved phase Freon in groundwater are found to be consistently below ambient water quality standards, the Site Standards, Criteria and Guidelines, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for natural attenuation may no longer be required, a proposal to discontinue the system will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If Freon levels in groundwater become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

Soil Vapor Intrusion Evaluation

A soil vapor intrusion evaluation must be performed upon a change in use of the property that will result in occupancy of a previously unoccupied building or initial occupancy of a new building. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

4.2 IC/EC CERTIFICATION

The NYSDEC Institutional and Engineering Controls Certification Form has been completed and is included in **Appendix E**.

5.0 MONITORING PLAN COMPLIANCE

5.1 MONITORING COMPLETED DURING CURRENT REPORTING PERIOD

Table 5.1: SMP Monitoring Frequency Requirements

Task/Report	Reporting Frequency
Inspection Report	NA
Groundwater monitoring and sampling	Quarterly: March, June, September and December
Soil Vapor Sampling	Semi-annually
Periodic Review Report	Annually, or as otherwise determined by the Department

Groundwater Monitoring

Groundwater samples were collected from monitoring wells MW-201, MW-203, MW-204, MW-205, MW-206, MW-207, MW-210, MW-211, MW-213, MW-214, MW-216, and MW-217 in accordance with the SMP. However, samples were not obtained from the first quarter of 2023; groundwater samples were collected during June 2023 and presented herein. Groundwater samples were analyzed for VOCs and PFAS as described in Section 3.0.

Soil Vapor Monitoring

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-12, SMPV-11, SMPV-13, and SMPV-14 in June 2023 in accordance with the SMP.

5.2 COMPARISON WITH REMEDIAL OBJECTIVES

Groundwater

As discussed in Section 3 of this report, Freon 11 and Freon 12 exceedances that were detected in groundwater samples collected from monitoring wells MW-213, MW-214, MW-217 post-COC in March 2020 are generally showing decreasing trends an asymptotic trends as shown in Chart 1.

The PFOS compound PFOA exceedances that were detected in monitoring wells MW-203, MW-213, MW-214, MW-216, and MW-217 are generally showing decreasing trends

and asymptotic trends as shown in the attached **Chart 3** and **Chart 4**, with minor increases in MW-203, MW-216 and MW-217 in the June 2023 sampling event.

Soil Vapor

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 during this monitoring period. Freon 11 soil vapor concentrations from the June 2023 sampling event have remained stable and have reached asymptotic levels except for SMPV-13. SMPV-13 levels have gone down since June 2022, but are higher than earlier samples collected shortly after the remediation was completed. Freon-12 soil vapor concentrations have remained stable in comparison with the historical sampling events except for SMPV-13. SMPV-13 levels have gone down since June 2022, but are higher than earlier samples collected shortly after the remediation was completed.

Monitoring Deficiencies

All aspects of the monitoring plan were in accordance with the SMP, however, not all events were completed due to sampling conditions (i.e., snow covered ground) and a couple of well sampling logs were not completed.

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems, to protect public health and the environment. Therefore, the operation and maintenance of such components is not applicable.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Compliance with the SMP

All aspects of the SMP, including IC/EC and monitoring, have met the requirements. The O&M is not required at this time for the site. There are no new exposure pathways resulting in an unacceptable risk. Not all sampling events were conducted due to excessive snow and limited access to sampling points.

Performance and Effectiveness of the Remedy

The sampling of the monitoring well network is determining the effectiveness of the Site's ability to naturally degrade the contaminants of concern in groundwater.

Future PRR Submittals

The next PRR will be submitted in March 2024.

Recommendations

SESI has conducted monitoring and sampling in compliance with the Site SMP and all aspects of the remedial program appear to be meeting the site remedy design goal. Based on the results and the attached charts the level of contamination in groundwater is decreasing and has attained asymptotic levels. Accordingly, SESI recommends the following for the next reporting period.

- Conduct one (1) final sampling event in January 2024 for Freon 11 in monitoring wells MW-213 and MW-217 to confirm the decreasing trend.
- Conduct one (1) final sampling event in January 2024 for Freon 12 in monitoring wells MW-213 and MW-214 to confirm decreasing trend.
- Conduct one (1) final sampling event in January 2024 for PFOS in monitoring wells MW-203, MW-213, MW-214, MW-216, and MW-217 to confirm decreasing trend.
- Conduct one (1) final sampling event in January 2024 for PFOA in monitoring wells MW-213 and MW-214 to confirm decreasing trend.
- No further sampling of monitoring of wells MW-201, MW-204, MW-205, MW-206, MW-207, MW-209, MW-210, and MW-211.

- SESI recommends one final sampling of vapor points SMPV-2, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 in January 2024, at which point levels will be assessed and a decision will be made with respect to the need for further sampling (note that the US EPA does not regulate Freon-11 for Vapor Intrusion Screening Levels).
- Soil vapor monitoring of the onsite vapor monitoring points SMPV-1, SMPV-3 shows that the soil vapor concentrations in these sampling points have reached asymptotic levels. Therefore, SESI recommends no further sampling of vapor monitoring points SMPV-1 and SMPV-3.
- Prepare a final Periodic Review Report to evaluate current groundwater and soil vapor concentrations and make recommendation to terminate institutional and engineering controls at the Site; report to be submitted in March 2024.

Tables

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-201		MW-201		MW-203		MW-203	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		3/5/2020		9/2/2020	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2148182-01		L2164321-01		L2010093-01		460-217547-1	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	1.98	U	0.57	J	2.04	U	0.733	J	1.86	U	27.9		25	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.98	U	1.04	U	2.04	U	1.82	U	1.86	U	0.288	J	1.1	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.98	U	2.92	U	2.04	U	1.82	U	1.86	U	2.14	U	3.1	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	0.454	J	0.46	U	0.514	J	1.82	U	0.651	J	1.62	J	1.71	J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.98	U	11	J	2.04	U	1.82	U	1.86	U	2.14	U	11.1	J
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.98	U	1.79	U	2.04	U	1.82	U	1.86	U	2.34		5.65	J
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	0.565	J	0.55	U	0.518	J	1.82	U	1.86	U	2.13	J	2.03	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.98	U	0.52	U	2.04	U	1.82	U	1.86	U	1.32	J	0.55	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	0.553	J	0.8	U	0.486	J	0.763	J	0.517	J	6		5.15	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.98	U	0.29	U	2.04	U	1.82	U	1.86	U	0.464	J	0.35	J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.98	U	0.3	U	2.04	U	1.82	U	1.86	U	2.14	U	0.32	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	1.98	U	0.33	J B	2.04	U	1.82	U	1.86	U	0.914	J	1.47	J B
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	1.98	U	0.51	J B	2.04	U	1.82	U	1.86	U	2.79		2.13	B
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.98	U	0.19	U	2.04	U	1.82	U	1.86	U	1.23	J	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	1.98	U	0.24	U	2.04	U	1.82	U	1.86	U	1.77	J	1.57	J
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.98	U	0.18	U	2.04	U	1.82	U	1.86	U	2.14	U	0.19	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.98	U	0.25	U	2.04	U	1.82	U	1.86	U	0.802	J	0.76	J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.98	U	0.27	U	2.04	U	1.82	U	0.484	J	3.92		0.29	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.98	U	1.88	U	2.04	U	1.82	U	1.86	U	2.14	U	2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.98	U	1.22	U	2.04	U	1.82	U	1.86	U	0.768	J	1.3	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.98	U	0.33	U	2.04	U	1.82	U	1.86	U	0.978	J	2.31	B
PFOA/PFOS, Total		500	ng/l	0.553	J	12.41		0.486	J	1.5	J	0.517	J	33.9		59.23	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-203		MW-203		MW-203		MW-203		MW-203		MW-204		MW-204
SAMPLING DATE				4/28/2021		9/8/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		9/2/2020
LAB SAMPLE ID				L2121852-02		L2148182-02		L2164698-04		L2236815-01		L2337731-05		L2010093-02		460-217547-4
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	14.5		18		12.8		0.982	J	11.9		5.05		12.1
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.82	U	1.73	U	1.83	U	1.28	J	1.75	U	2.04	U	1.08
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.82	U	1.73	U	1.83	U	0.462	J	1.75	U	2.04	U	3.03
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	0.564	J	1.05	J	0.605	J	0.909	JF	0.905	J	0.812	J	1.26
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	2.13		1.73	U	1.83	U	1.12	J	1.75	U	2.04	U	2.02
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	3.14		4.14	F	2.35		0.538	J	1.75	U	2.04	U	1.86
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	0.778	J	0.812	J	0.701	JF	2.92		0.619	J	0.837	J	1.14
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.82	U	1.73	U	1.83	U	53.4		1.75	U	0.588	J	0.54
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	3.26		3.28		1.82	J	1.82	U	2.89		2.22		3.94
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.82	U	0.295	J	1.83	U	0.476	J	1.75	U	2.04	U	0.3
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.82	U	1.73	U	1.83	U	9.37		1.75	U	2.04	U	0.31
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	0.789	J	1.27	J	0.649	J	1.82	U	0.78	J	2.04	U	1.08
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	0.869	J	1.73	U	1.25	J	1.82	U	1.55	J	0.971	J	3.11
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.82	U	0.725	J	1.83	U	1.82	U	0.524	J	0.249	J	0.64
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	0.629	J	0.77	J	0.811	JF	1.82	U	0.741	J	0.563	J	1.02
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.82	U	1.73	U	1.83	U	1.82	U	1.75	U	2.04	U	0.19
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	0.32	J	0.538	J	1.83	U	1.82	U	0.297	JF	2.04	U	0.46
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.82	U	1.73	U	1.83	U	1.82		1.75	U	1.66	J	0.28
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.82	U	1.73	U	1.83	U	1.82	U	1.75	U	2.04	U	1.96
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.82	U	1.73	U	1.83	U	1.82	U	1.75	U	0.384	J	1.27
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	0.989	JF	0.853	JF	1.83	U	1.82	U	1.75	U	2.04	U	0.57
PFOA/PFOS, Total		500	ng/l	17.8		21.3		14.6	J	12.3		14.8		7.27		27.34

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION					MW-204		MW-204		MW-204		MW-204		MW-205		MW-205	
SAMPLING DATE					4/27/2021		9/9/2021		11/22/2021		7/11/2022		3/5/2020		9/2/2020	
LAB SAMPLE ID					L2121570-05		L2148526-01		L2164698-05		L2236815-02		L2010093-03		460-217547-3	
SAMPLE TYPE					WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l		4.41		7.56		4.68		1.8	U	2.13		0.93	J
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	U	1.93	U	1.75	U	1.81	U	0.966	J	1.9	U	1.09	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	3.08	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	J	0.701	J	0.976	J	1.12	J	0.386	JF	0.646	J	0.49	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	J	1.93	U	1.75	U	1.81	U	0.31	J	1.9	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	U	1.93	U	0.857	J	1.81	U	1.8	U	1.9	U	1.89	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	J	0.744	J	0.909	J	0.945	J	1.17	J	0.597	J	0.58	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.24	J	1.9	U	0.55	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l		1.53	J	1.95		1.28	JF	1.8	U	2.19		0.84	U
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	0.31	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	U	1.93	U	1.75	U	1.81	U	2.83		1.9	U	0.32	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	J B	1.93	U	1.75	U	0.456	J	1.8	U	1.9	U	0.44	J B
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	B	0.724	J	1.53	J	2.5		1.8	U	0.597	J	0.59	J B
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	J	1.93	U	0.332	J	1.81	U	1.8	U	1.9	U	0.2	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	J	0.389	J	0.926	J	1.05	J	1.8	U	0.414	J	0.25	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	0.19	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	J	1.93	U	0.332	J	1.81	U	1.8	U	0.3	J	0.27	U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.13	J	0.29	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	1.99	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	U	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	1.29	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	J B	1.93	U	1.75	U	1.81	U	1.8	U	1.9	U	0.35	U
PFOA/PFOS, Total		500	ng/l		5.94	J	9.51		5.96	J	4	J	4.32		2.16	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-205		MW-205		MW-205		MW-206		MW-206		MW-206		MW-206
SAMPLING DATE				4/27/2021		9/9/2021		11/19/2021		3/5/2020		9/2/2020		4/27/2021		9/9/2021
LAB SAMPLE ID				L2121570-06		L2148526-02		L2164321-02		L2010093-04		460-217547-4		L2121570-04		L2148526-03
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	0.583	J	0.819	JF	0.53	JF	47.9		38.7		30.9		32.5
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	0.97	U	1.94	U	1.83
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	2.73	U	1.94	U	1.83
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	1.87	U	1.84	U	1.78	U	4.08		1.83		4.2		1.49
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	2.24	J	1.94	U	1.87
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	1.67	U	1.94	U	1.83
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	0.478	J	1.84	U	1.78	U	5.43		2.28		5.8		2.09
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	0.48	U	1.94	U	1.83
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	0.62	J	0.786	J	0.498	J	25.5		12.1		26		14.6
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.87	U	1.84	U	1.78	U	0.561	J	0.45	J	0.307	J	0.315
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	0.28	U	1.94	U	1.83
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	1.87	U	1.84	U	1.78	U	2.91		1.93	B	4.42		2.35
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	1.87	U	1.84	U	1.78	U	9.62		5.79		13.1		5.14
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.87	U	1.84	U	1.78	U	2.22		1.06	J	2.68		1.53
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	1.87	U	1.84	U	1.78	U	5.37		2.47		6.84		2.52
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.87	U	1.84	U	1.78	U	0.809	J	0.43	J	1.94	U	1.83
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.87	U	1.84	U	1.78	U	1.29	J	0.75	J	1.01	J	0.766
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.87	U	1.84	U	0.352	J	0.802	J	0.26	U	1.94	U	1.83
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	1.76	U	1.94	U	1.83
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	1.15	U	1.94	U	1.83
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.87	U	1.84	U	1.78	U	1.91	U	0.66	J	1.94	U	1.83
PFOA/PFOS, Total		500	ng/l	1.2	J	1.61	J	1.03	J	73.4		70.69		56.9		47.1

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION					MW-206		MW-206		MW-206	MW-207		MW-207		MW-207		
SAMPLING DATE					11/22/2021		7/11/2022		6/29/2023	3/5/2020		9/3/2020		4/27/2021		
LAB SAMPLE ID					L2164698-01		L2236815-03		L2337731-08	L2010093-06		460-217659-2		L2121570-03		
SAMPLE TYPE					WATER		WATER		WATER	WATER		WATER		WATER		
	CasNum	NY-AWQS	Units	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l		34.1		4.43		9.57		11.3		22.1		8.36	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	U	1.9	U	1.88		1.72	U	2.09	U	1.03	U	2.14	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	U	1.9	U	0.869	J	1.72	U	2.09	U	2.91	U	2.14	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	J	1.77	J	1.67	JF	1.39	J	1.62	J	0.79	J	0.476	J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l		1.9	U	1.87		1.72	U	2.09	U	1.87	U	2.14	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	U	1.9	U	1.74	J	1.72	U	2.09	U	1.78	U	2.14	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l		2.35		9.34		1.78	F	1.61	J	0.91	J	0.66	J
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	U	1.9	U	1.22	J	1.72	U	2.09	U	0.52	U	2.14	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l		13.1		1.79	U	5.6		6.59		5.46		2.2	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	J	1.9	U	0.497	J	1.72	U	2.09	U	0.39	J	2.14	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	U	1.9	U	21.1		1.72	U	2.09	U	0.3	U	2.14	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l		2.46		1.79	U	0.741	J	1.15	J	1.92	B	0.472	J
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l		5.35		1.79	U	4.18		1.94	J	1.93	B	0.497	J
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	J	1.43	J	1.79	U	0.597	J	0.749	J	0.76	J	0.304	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l		2.68		1.79	U	1.96		1.35	J	0.94	J	0.506	J
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	U	1.9	U	1.79	U	1.72	U	2.09	U	0.37	J	2.14	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	J	0.512	JF	1.79	U	0.693	JF	0.644	J	0.61	J	0.467	J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	U	1.9	U	1.79	U	1.72	U	0.561	J	0.27	U	2.14	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	U	1.9	U	1.79	U	1.72	U	2.09	U	1.87	U	2.14	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	U	1.9	U	1.79	U	1.72	U	2.09	U	1.22	U	2.14	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	U	1.9	U	1.79	U	1.72	U	2.09	U	0.33	U	2.14	U
PFOA/PFOS, Total		500	ng/l		47.2		30.4		15.2		17.9		36.18		10.6	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-207		MW-207		MW-207		MW-207		MW-208		MW-209		MW-209
SAMPLING DATE				9/9/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		3/6/2020		4/28/2021
LAB SAMPLE ID				L2148526-04		L2164698-02		L2236815-04		L2337731-06		L2010093-05		L2010346-03		L2121852-03
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	29.9		17.4		1.5	J	8.97		68.2		1.18	J	2.44
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.75	U	1.87	U	1.39	J	1.77	U	0.792	J	2.3	U	2.04
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.75	U	1.87	U	0.632	J	1.77	U	8.18		2.3	U	2.04
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	1.57	J	1.87	U	0.935	J	1.77	U	6.12		2.77		2.11
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	57		1.87	U	0.953	J	1.77	U	1.87	J	2.3	U	8.87
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.75	U	1.87	U	1.06	J	1.77	U	9.71		1.26	J	2.04
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	2.72		1.87	U	4.96		0.319	J	8.38		2.74		1.84
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.75	U	1.87	U	2.49		1.77	U	0.518	J	2.3	U	2.04
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	9.68		3.64		1.8	U	1.81		38.2		5.16		4.08
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	0.624	J	1.87	U	0.664	J	1.77	U	3.69		2.3	U	2.04
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.75	U	1.87	U	19.4		1.77	U	1.96	U	2.3	U	2.04
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	1.78	F	1.32	J	0.574	J	0.538	J	6.24		2.3	U	0.506
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	2.52		0.58	J	1.8	U	0.464	J	10.3		6.63		3.22
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	0.916	J	0.427	J	1.8	U	0.258	J	2.4		1.36	J	0.669
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	1.81		0.558	J	1.8	U	0.368	JF	6.38		3.04		1.63
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.75	U	1.87	U	1.8	U	1.77	U	1.01	J	2.3	U	2.04
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.13	J	0.318	JF	0.585	JF	1.77	U	2.58		1.39	J	1.4
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.75	U	1.87	U	1.8	U	1.77	U	0.69	J	0.618	J	2.04
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.75	U	1.87	U	1.8	U	1.77	U	1.96	U	2.3	U	2.04
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.75	U	1.87	U	1.8	U	1.77	U	1.96	U	2.3	U	2.04
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.75	U	1.87	U	1.8	U	1.77	U	16.2		2.3	U	2.04
PFOA/PFOS, Total		500	ng/l	39.6		21		24.4		10.8		106		6.34	J	6.52

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION					MW-209		MW-209		MW-210		MW-210		MW-210		MW-210	
SAMPLING DATE					9/9/2021		11/22/2021		3/6/2020		9/3/2020		4/29/2021		9/8/2021	
LAB SAMPLE ID					L2148526-05		L2164698-07		L2010346-06		460-217659-3		L2122071-01		L2148182-03	
SAMPLE TYPE					WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l		3.38		1.76		6.43		3.56	cn	7.25		6.38	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	U	1.81	U	1.75	U	2.3	U	1.11	U	1.75	U	1.83	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	U	1.81	U	1.75	U	2.3	U	3.11	U	1.75	U	1.83	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l		2.27		1.2	J	0.885	J	0.6	J	1.48	J	0.939	J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l		24.1		1.75	U	2.3	U	2.01	U	1.75	U	1.83	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	U	1.81	U	1.75	U	2.3	U	1.91	U	1.75	U	1.83	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	J	1.93		0.76	J	1.21	J	0.58	U	1.8		1.07	J
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.55	U	1.75	U	1.83	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l		4.27		2.55		2.91		2.32		4.74		3.05	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.31	U	1.75	U	1.83	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.32	U	1.75	U	1.83	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	JF	0.348	J	1.75	U	1.1	J	1.02	J B	1.62	J	1.34	J
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l		5.04		2.11		1.59	J	1.54	J B	14		1.64	J
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	J	1.25	J	0.547	J	0.922	J	1.1	J	1.17	J	1.21	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	J	1.91		0.866	J	0.857	J	0.73	J	1.12	J	0.854	J
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.19	U	1.75	U	1.83	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	J	1.81		0.578	J	2.3	U	0.27	U	1.75	U	0.319	J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.29	U	1.75	U	1.83	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	U	1.81	U	1.75	U	2.3	U	2.01	U	1.75	U	1.83	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	U	1.81	U	1.75	U	2.3	U	1.31	U	1.75	U	1.83	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	U	1.81	U	1.75	U	2.3	U	0.36	J	1.75	U	1.83	U
PFOA/PFOS, Total		500	ng/l		7.65		4.31		9.34		11.23		12		9.43	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-210		MW-211		MW-211		MW-211		MW-211		MW-211		MW-213
SAMPLING DATE				11/19/2021		3/6/2020		9/3/2020		4/28/2021		9/9/2021		11/22/2021		3/4/2020
LAB SAMPLE ID				L2164321-03		L2010346-04		460-217659-4		L2121852-04		L2148526-06		L2164698-06		L2009793-01
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	5.6		2.27	U	1.75	J	1.58	J	1.46	J	2.06		73.4
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.85	U	2.27	U	1.1	U	2.04	U	1.84	U	1.81	U	1.92
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.85	U	2.27	U	3.09	U	2.04	U	1.84	U	1.81	U	1.92
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	1.37	J	0.609	J	0.49	U	0.551	J	1.84	U	1.81	U	9
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.85	U	2.27	U	5.28	J	1.84	J	1.84	U	1.81	U	1.92
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.85	U	2.27	U	1.89	U	2.04	U	1.84	U	1.81	U	1.19
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	0.956	J	0.432	J	0.58	U	0.555	J	1.84	U	1.81	U	11
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.85	U	2.27	U	0.55	U	2.04	U	1.84	U	1.81	U	1.92
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	2.78		0.941	J	0.87	J	0.939	J	1.07	J	0.745	JF	32.8
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.85	U	2.27	U	0.31	U	2.04	U	1.84	U	1.81	U	1.88
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.85	U	2.27	U	0.32	U	2.04	U	1.84	U	1.81	U	1.92
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	1.13	J	2.27	U	0.56	J B	2.04	U	1.84	U	1.81	U	5.37
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	1.35	J	2.27	U	0.72	J B	0.482	J	0.62	J	0.445	J	12.8
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.04	J	2.27	U	0.2	U	2.04	U	0.24	J	1.81	U	2.97
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	0.77	J	2.27	U	0.25	U	2.04	U	1.84	U	1.81	U	8.1
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.85	U	2.27	U	0.19	U	2.04	U	1.84	U	1.81	U	1.06
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.85	U	2.27	U	0.27	U	2.04	U	1.84	U	1.81	U	3.45
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	0.448	J	2.27	U	0.41	J	2.04	U	1.84	U	1.81	U	1.92
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.85	U	2.27	U	1.99	U	2.04	U	1.84	U	1.81	U	1.92
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.85	U	2.27	U	1.3	U	2.04	U	1.84	U	1.81	U	1.92
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.85	U	2.27	U	0.35	J	2.04	U	1.84	U	1.81	U	1.42
PFOA/PFOS, Total		500	ng/l	8.38		0.941	J	9.94		2.52	J	2.53	J	2.81	J	106

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION					MW-213		MW-213		MW-213		MW-213		MW-213		MW-213	MW-214		
SAMPLING DATE					9/2/2020		4/27/2021		9/8/2021		11/19/2021		7/12/2022		6/29/2023	3/4/2020		
LAB SAMPLE ID					460-217547-5		L2121570-02		L2148182-05		L2164321-05		L2237198-01		L2337731-03	L2009793-02		
SAMPLE TYPE					WATER		WATER		WATER		WATER		WATER		WATER	WATER		
	CasNum	NY-AWQS	Units	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																		
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l		60.7		70		64.1		67.4		7		41.9		47.3	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	U	1.04	U	1.97	U	1.75	U	1.9	U	6.14		1.76	U	0.26	J
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	U	2.92	U	1.97	U	1.75	U	0.88	JF	2.05		1.76	U	1.94	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l		7.81		8.53		6.09		8.21		5.93		4.91		5.47	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	U	2.14	J	1.97	U	13.6		1.9	U	4.86		1.76	U	1.94	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	J	1.79	U	1.97	U	1.29	JF	1.19	J	6.04		1.76	U	1.94	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l		8.64		9.6		7.58		7.37		23.6		3.95	F	8.26	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	U	0.52	U	1.97	U	1.75	U	1.9	U	10.2		1.76	U	1.94	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l		26.5		27.7		24		25.4		1.03	J	14.4		29.9	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	J	1.61	J	1.4	J	1.17	J	1.13	J	1.62	J	0.663	J	0.849	J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	U	0.3	U	1.97	U	1.75	U	1.9	U	68.1		1.76	U	1.94	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l		4.94	B	6.29		5.95		7.85		0.689	J	3.41		8.26	
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l		12.4	B	12.8		8.49		7.72		1.93	U	4.61		10.9	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l		2.27		2.92		2.46		2.32		0.747	J	1.65	J	3.88	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l		6.13		6.7		5.37		5.43		1.93	U	3.5		6.07	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	J	0.79	J	1.22	J	1.01	J	1.12	J	1.93	U	1.76	U	1.64	J
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l		2.51		2.67		1.98		2.13		1.4	J	1.44	JF	1.08	J
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	U	0.27	U	1.97	U	1.75	U	0.454	J	1.84	J	1.76	U	1.94	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	U	1.88	U	1.97	U	1.75	U	1.9	U	1.93	U	1.76	U	1.94	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	U	1.22	U	1.97	U	1.75	U	1.9	U	1.93	U	1.76	U	1.94	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	J	1.76	J B	1.27	JF	1.05	JF	0.941	JF	1.93	U	0.663	JF	1.94	U
PFOA/PFOS, Total		500	ng/l		138.2		97.7		88.1		92.8		91.7		56.3		77.2	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-214		MW-214		MW-214		MW-214		MW-214		MW-214		MW-216
SAMPLING DATE				9/3/2020		4/27/2021		9/9/2021		11/22/2021		7/12/2022		6/29/2023		3/6/2020
LAB SAMPLE ID				460-217659-5		L2121570-01		L2148526-07		L2164698-03		L2237198-02		L2337731-04		L2010346-01
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Perfluorinated Alkyl Acids by Isotope Dilution																
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	46.6		40.3		30.5		56.2		5.68		35.6		6.51
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.14	U	2.01	U	1.78	U	2.12	U	4.5		1.74	U	1.93
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	3.21	U	2.01	U	1.78	U	2.12	U	2.05		1.74	U	1.93
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	4.5		6.97	F	1.93		4.84		5.34		4.11		2.06
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	2.07	U	2.01	U	1.78	U	2.12	U	4.26		1.74	U	1.93
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.97	U	2.01	U	1.78	U	2.12	U	5.22		1.74	U	1.93
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	6.65		9.42		3.87		6.17		23.1		4.2		2.95
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	0.57	U	2.01	U	1.78	U	2.12	U	1.67	J	1.74	U	1.93
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	25.8		29.5		15.9		24.7		0.826	J	21.1		8.18
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.42	J	0.631	JF	1.78	U	0.679	J	1.1	J	0.271	J	1.93
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	0.33	U	2.01	U	1.78	U	2.12	U	42.4		1.74	U	1.93
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	5.44	B	6.66		5.31		6.15		0.495	JF	4.28		1.8
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	9.76	B	10.1		4.55		7.55		1.9	U	4.78		4.28
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	3.32		3.02		2.55		2.31		1.9	U	1.44	J	1.35
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	5.08		6.64		2.99		4.81		1.9	U	3.89		2.12
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	0.75	J	1.35	J	0.821	J	1.49	J	1.9	U	0.922	J	1.93
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.41	J	1.29	J	0.35	J	1.25	JF	1.9	U	0.954	JF	0.402
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	0.3	U	2.01	U	1.78	U	2.12	U	1.9	U	1.74	U	0.259
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	2.07	U	2.01	U	1.78	U	2.12	U	1.9	U	1.74	U	1.93
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.35	U	2.01	U	1.78	U	2.12	U	1.9	U	1.74	U	1.93
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	2.04	J	0.8	JF	1.78	U	1.32	JF	1.9	U	1.74	U	1.93
PFOA/PFOS, Total		500	ng/l	112.77		69.8		46.4		80.9		65.5		56.7		14.7

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION					MW-216		MW-216		MW-216		MW-216		MW-216		MW-216
SAMPLING DATE					9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023
LAB SAMPLE ID					460-217659-6		L2121852-05		L2148182-06		L2164321-06		L2236815-05		L2337731-02
SAMPLE TYPE					WATER		WATER		WATER		WATER		WATER		WATER
	CasNum	NY-AWQS	Units	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results Qual
Perfluorinated Alkyl Acids by Isotope Dilution															
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l		24.8		24.9		20.8		15.7		3.75		22.8
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	U	1.01	U	1.8	U	1.78	U	1.88	U	1.83		1.74 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	U	2.84	U	1.8	U	1.78	U	1.88	U	1.23	J	1.74 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l		2.52		2.4		4.29		3.7		2.22		1.74
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	U	1.83	U	2.29		28.4		1.88	U	1.74	J	1.74 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	U	1.74	U	0.744	J	1.78	U	1.88	U	2.19	F	1.74 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l		2.62		3.06		4.44		3.08		7.28		1.62 J
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	U	0.5	U	1.8	U	1.78	U	1.88	U	5.61		1.74 U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l		9.39		10.8		11.7		9.79		1.78	U	6.12
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	U	0.34	J	0.375	JF	0.286	JF	1.88	U	0.705	J	0.313 J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	U	0.29	U	1.8	U	1.78	U	1.88	U	21.2		1.74 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	J	2.96	B	3.56		2.88		2.1		0.328	JF	1.92
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l		4.37	B	5.08		7.11		4.42		1.78	U	3.01
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	J	1.19	J	1.3	J	1.48	J	1.23	J	1.78	U	1.02 J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l		1.88		2.39		2.68		2.1		1.78	U	1.7 J
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	U	0.17	U	1.8	U	1.78	U	1.88	U	1.78	U	1.74 U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	J	0.73	J	0.859	J	0.7	J	0.51	J	1.78	U	0.65 JF
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	J	0.27	U	1.8	U	1.78	U	0.416	J	1.78	U	1.74 U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	U	1.83	U	1.8	U	1.78	U	1.88	U	1.78	U	1.74 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	U	1.19	U	1.8	U	1.78	U	1.88	U	1.78	U	1.74 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	U	1.06	J	0.664	J	1.78	U	1.88	U	1.78	U	0.744 JF
PFOA/PFOS, Total		500	ng/l		51.86		35.7		32.5		25.5		28.5		28.9

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF HISTORICAL PFAS EXCEEDANCES IN GROUNDWATER
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-217		MW-217		MW-217		MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023	
LAB SAMPLE ID				L2010346-02		460-217659-7		L2121852-06		L2148182-07		L2164321-07		L2236815-06		L2337731-07	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ng/l	30		42.1		19.5		38.6		27		2.26		16	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.94	U	1.03	U	1.77	U	1.76	U	1.95	U	1.41	J	1.72	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.94	U	2.91	U	1.77	U	1.76	U	1.95	U	2.1		1.72	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	2.11		1.57	J	2.18		3.15		2.36		1.97		0.982	J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.94	U	4.04	J	1.36	J	26.9		1.95	U	1.55	J	1.72	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.94	U	1.79	U	1.77	U	1.76	U	1.95	U	3.88		1.72	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	3.4		2.59		3.86		5.25		2.74		9.15		0.82	J
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.94	U	0.52	U	1.77	U	1.76	U	1.95	U	3.05		1.72	U
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ng/l	15.7		13.8		14.6		21.4		12.8		1.74	U	4.67	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	0.473	J	0.71	J	1.77	U	0.303	J	0.305	JF	1.74	U	1.72	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.94	U	0.3	U	1.77	U	1.76	U	1.95	U	15.8		1.72	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	7.38		4.48	B	5.7		6.05		5.16		1.74	U	2.03	
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	4.31		3.68	B	3.66		6.43		3.06		1.74	U	1.3	J
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	2.93		2.13		2.75		3.78		2.48		1.74	U	0.978	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	2.66		2.07		2.74		3.75		2.31		1.74	U	0.778	J
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	0.752	J	0.61	J	1.77	U	0.978	J	0.691	J	1.74	U	1.72	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.08	J	1.51	J	0.496	J	0.887	J	0.52	J	1.74	U	1.72	U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.94	U	0.27	U	1.77	U	1.76	U	0.477	J	1.74	U	1.72	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.94	U	1.88	U	1.77	U	1.76	U	1.95	U	1.74	U	1.72	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.94	U	1.22	U	1.77	U	1.76	U	1.95	U	1.74	U	1.72	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.94	U	1.21	J	1.77	U	1.76	U	1.95	U	1.74	U	1.72	U
PFOA/PFOS, Total		500	ng/l	45.7		80.5		34.1		60		39.8		25		20.7	

Notes:
1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-201		MW-201		MW-203		MW-203	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		3/5/2020		4/28/2021	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2148182-01		L2164321-01		L2010093-01		L2121852-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	3.1	
Styrene	100-42-5	5	ug/l	2.5	U	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	0.95	J
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	-		2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	0.5	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	1.3	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	28	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	1	J
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	1.1	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	-		2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-201		MW-201		MW-203		MW-203	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		9/8/2021		11/19/2021		3/5/2020		4/28/2021	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2148182-01		L2164321-01		L2010093-01		L2121852-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	4.4	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.27	J
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	0.44	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	0.17	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	0.82	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	0.54	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	0.31	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	0.35	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	1.9	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	1	J
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	-		2	U	2	U	2	U	2	U	1.1	J
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	0.87	J
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
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3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
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TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-203		MW-203		MW-203		MW-203		MW-204		MW-204		MW-204	
SAMPLING DATE				9/8/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		4/27/2021		9/9/2021	
LAB SAMPLE ID				L2148182-02		L2164698-04		L2236815-01		L2337731-05		L2010093-02		L2121570-05		L2148526-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Qual	Results	Qual	Results	Qual	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	4.7		1.7	J	5.1		2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	1.5	J	1.2	J	4.2		2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	0.89	J	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	0.74	J	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-203		MW-203		MW-203		MW-203		MW-204		MW-204		MW-204	
SAMPLING DATE				9/8/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		4/27/2021		9/9/2021	
LAB SAMPLE ID				L2148182-02		L2164698-04		L2236815-01		L2337731-05		L2010093-02		L2121570-05		L2148526-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Qual	Results	Qual	Results	Qual	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	1.7	J
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.28	J	0.25	J	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	2.1	J
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	0.87	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.4	J	2.5	U	0.89	J	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	0.58	J	0.61	J	1	J	3		2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	0.89	J	2.5	U	1.5	J	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-204		MW-204		MW-205		MW-205		MW-205		MW-205		MW-206	
SAMPLING DATE				11/22/2021		7/11/2022		3/5/2020		4/27/2021		9/9/2021		11/19/2021		3/5/2020	
LAB SAMPLE ID				L2164698-05		L2236815-02		L2010093-03		L2121570-06		L2148526-02		L2164321-02		L2010093-04	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-204		MW-204		MW-205		MW-205		MW-205		MW-205		MW-206	
SAMPLING DATE				11/22/2021		7/11/2022		3/5/2020		4/27/2021		9/9/2021		11/19/2021		3/5/2020	
LAB SAMPLE ID				L2164698-05		L2236815-02		L2010093-03		L2121570-06		L2148526-02		L2164321-02		L2010093-04	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-206		MW-206		MW-206		MW-206		MW-206		MW-207		MW-207	
SAMPLING DATE				4/27/2021		9/9/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		9/3/2020	
LAB SAMPLE ID				L2121570-04		L2148526-03		L2164698-01		L2236815-03		L2337731-08		L2010093-06		460-217659-2	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.42	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.22	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.49	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	-	
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.43	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	-	
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	-	
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	1.3	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.37	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	250	U	250	U	28	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.28	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.25	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.22	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.47	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	-	
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.21	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	1.1	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	-	

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-206		MW-206		MW-206		MW-206		MW-206		MW-207		MW-207	
SAMPLING DATE				4/27/2021		9/9/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		9/3/2020	
LAB SAMPLE ID				L2121570-04		L2148526-03		L2164698-01		L2236815-03		L2337731-08		L2010093-06		460-217659-2	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	2.7	J	5	U	4.4	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.55	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.41	J
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	-	
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.41	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	0.17	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	0.82	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	0.54	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.34	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.26	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.26	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U
Dichlorodifluoromethane	75-71-8	5	ug/l	1.4	J	1.2	J	1	J	1.5	J	5	U	5	U	0.31	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	0.35	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	1.9	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	0.43	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.31	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.37	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.43	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	-	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-	

Notes:
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3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-207		MW-207		MW-207		MW-207		MW-207		MW-208		MW-209	
SAMPLING DATE				4/27/2021		9/9/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		3/6/2020	
LAB SAMPLE ID				L2121570-03		L2148526-04		L2164698-02		L2236815-04		L2337731-06		L2010093-05		L2010346-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Qua	Results	Qual	Results	Qual	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-207		MW-207		MW-207		MW-207		MW-207		MW-208		MW-209	
SAMPLING DATE				4/27/2021		9/9/2021		11/22/2021		7/11/2022		6/29/2023		3/5/2020		3/6/2020	
LAB SAMPLE ID				L2121570-03		L2148526-04		L2164698-02		L2236815-04		L2337731-06		L2010093-05		L2010346-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Qua	Results	Qual	Results	Qual	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	5	U	3.2	J	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.8	J	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-209		MW-209		MW-209		MW-210		MW-210		MW-210		MW-210	
SAMPLING DATE				4/28/2021		9/9/2021		11/22/2021		3/6/2020		9/3/2020		4/29/2021		9/8/2021	
LAB SAMPLE ID				L2121852-03		L2148526-05		L2164698-07		L2010346-06		460-217659-3		L2122071-01		L2148182-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	0.5	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.43	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	1.3	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	28	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U			0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	1.1	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-209		MW-209		MW-209		MW-210		MW-210		MW-210		MW-210	
SAMPLING DATE				4/28/2021		9/9/2021		11/22/2021		3/6/2020		9/3/2020		4/29/2021		9/8/2021	
LAB SAMPLE ID				L2121852-03		L2148526-05		L2164698-07		L2010346-06		460-217659-3		L2122071-01		L2148182-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Qual	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	7.1		5	U	5	U	4.4	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	0.17	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	0.82	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	0.54	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U	5	U	0.31	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	0.35	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	1.9	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-210		MW-211		MW-211		MW-211		MW-211		MW-211		MW-213	
SAMPLING DATE				11/19/2021		3/6/2020		9/3/2020		4/28/2021		9/9/2021		11/22/2021		3/4/2020	
LAB SAMPLE ID				L2164321-03		L2010346-04		460-217659-4		L2121852-04		L2148526-06		L2164698-06		L2009793-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	-		2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	0.5	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	-		5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	-		5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	1.3	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	28	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	-		0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	1.1	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	-		2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-210		MW-211		MW-211		MW-211		MW-211		MW-211		MW-213	
SAMPLING DATE				11/19/2021		3/6/2020		9/3/2020		4/28/2021		9/9/2021		11/22/2021		3/4/2020	
LAB SAMPLE ID				L2164321-03		L2010346-04		460-217659-4		L2121852-04		L2148526-06		L2164698-06		L2009793-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	4.4	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	-		5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	0.17	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	0.82	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	0.54	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	71	
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	0.31	U	5	U	5	U	5	U	74	
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	0.35	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	1.9	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	-		2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U

Notes:
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6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-213		MW-213		MW-213		MW-213		MW-213		MW-213		MW-214	
SAMPLING DATE				9/2/2020		4/27/2021		9/8/2021		11/19/2021		7/12/2022		6/29/2023		3/4/2020	
LAB SAMPLE ID				460-217547-5		L2121570-02		L2148182-05		L2164321-05		L2237198-01		L2337731-03		L2009793-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	1.3	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	28	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	1.1	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
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TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-213		MW-213		MW-213		MW-213		MW-213		MW-213		MW-214	
SAMPLING DATE				9/2/2020		4/27/2021		9/8/2021		11/19/2021		7/12/2022		6/29/2023		3/4/2020	
LAB SAMPLE ID				460-217547-5		L2121570-02		L2148182-05		L2164321-05		L2237198-01		L2337731-03		L2009793-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Qual	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	4.4	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	0.4	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	0.17	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	0.44	J	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	0.82	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	0.54	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	56		52		48		61		37		24		10	
Dichlorodifluoromethane	75-71-8	5	ug/l	40		54		41		45		31		23		27	
1,2-Dichloropropane	78-87-5	1	ug/l	0.35	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	1.9	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l			2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l			2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-214		MW-214		MW-214		MW-214		MW-214		MW-214		MW-216	
SAMPLING DATE				9/3/2020		4/27/2021		9/9/2021		11/22/2021		7/12/2022		6/29/2023		3/6/2020	
LAB SAMPLE ID				460-217659-5		L2121570-01		L2148526-07		L2164698-03		L2237198-02		L2337731-04		L2010346-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	1.3	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	28	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	1.1	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
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TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-214		MW-214		MW-214		MW-214		MW-214		MW-214		MW-216	
SAMPLING DATE				9/3/2020		4/27/2021		9/9/2021		11/22/2021		7/12/2022		6/29/2023		3/6/2020	
LAB SAMPLE ID				460-217659-5		L2121570-01		L2148526-07		L2164698-03		L2237198-02		L2337731-04		L2010346-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	4.4	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	0.4	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	0.17	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	0.82	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	0.54	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	5.1		5.4		1	J	3		2.5		1.5	J	48	
Dichlorodifluoromethane	75-71-8	5	ug/l	16		21		5	U	10		9.9		6.9		15	
1,2-Dichloropropane	78-87-5	1	ug/l	0.35	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	1.9	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-216		MW-216		MW-216		MW-216		MW-216		MW-216		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023		3/6/2020	
LAB SAMPLE ID				460-217659-6		L2121852-05		L2148182-06		L2164321-06		L2236815-05		L2337731-02		L2010346-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																	
Ethylbenzene	100-41-4	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	1.3	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l			2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	28	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l			2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	1.1	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-216		MW-216		MW-216		MW-216		MW-216		MW-216		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023		3/6/2020	
LAB SAMPLE ID				460-217659-6		L2121852-05		L2148182-06		L2164321-06		L2236815-05		L2337731-02		L2010346-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	4.4	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	0.4	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	-		5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	0.17	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	0.82	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	0.54	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	6.9		29		5.3		4.7		5.5		4		22	
Dichlorodifluoromethane	75-71-8	5	ug/l	3.9		11		3.6	J	3.5	J	3.6	J	2.2	J	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	0.35	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	1.9	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l			2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	-		2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-217		MW-217		MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023	
LAB SAMPLE ID				460-217659-7		L2121852-06		L2148182-07		L2164321-07		L2236815-06		L2337731-07	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS															
Ethylbenzene	100-41-4	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	-		2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	0.5	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.43	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	-		5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	-		5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	1.3	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	28	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	1.1	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	-		2	U	2	U	2	U	2	U	2	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-217		MW-217		MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021		9/8/2021		11/19/2021		7/11/2022		6/29/2023	
LAB SAMPLE ID				460-217659-7		L2121852-06		L2148182-07		L2164321-07		L2236815-06		L2337731-07	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	4.4	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	0.4	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l			5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	0.17	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	0.82	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	0.54	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	5.6		47		55		62		52		18	
Dichlorodifluoromethane	75-71-8	5	ug/l	0.31	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	0.35	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	1.9	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	-		2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Notes:
1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected
6. J = Estimated Concentration

TABLE 3.4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

CACATION		SMPV-1		SMPV-1		SMPV-1		SMPV-1		SMPV-1		SMPV-2		SMPV-2		SMPV-2		SMPV-2		SMPV-2		SMPV-3		SMPV-3		SMPV-3		SMPV-10		SMPV-10		SMPV-10		SMPV-10		SMPV-10		SMPV-11						
SAMPLING DATE		3/6/2020		4/29/2021		7/12/2022		6/29/2023		3/6/2020		4/29/2021		7/12/2022		6/29/2023		3/6/2020		4/29/2021		7/12/2022		6/29/2023		3/6/2020		4/28/2021		7/12/2022		6/29/2023		3/6/2020		4/28/2021		7/12/2022		6/29/2023				
LAB SAMPLE ID		L21010375-03		L21221151-01		L21507116-01		L22371755-01		L21010375-05		L21221151-02		L21507116-02		L22371755-02		L21010375-05		L21221151-02		L21507116-02		L22371755-02		L21010375-04		L21221151-03		L22371755-03		L21010375-07		L21221189-02		L21507116-03		L22371755-07		L21010375-08				
SAMPLE TYPE		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR				
SAMPLE DEPTH (ft.)																																												
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Volatile Organics in Air																																												
Ethylbenzene	100-41-4	ug/m3	1.8		3.44		0.869	U	10.9		3.25		0.869	U	6.34		0.869	U	10.3		2.43		0.869	U	2.99		5.34		2.9		1.39		0.869	U	17.9		0.925		0.869	U				
Styrene	100-42-5	ug/m3	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U		
Benzyl chloride	100-44-7	ug/m3	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U		
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U		
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U		
1,4-Dichlorobenzene	106-46-7	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U		
1,2-Dibromomethane	106-93-4	ug/m3	1.																																									

Notes:

1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

Figures

N:\ACAD\3\3\3\SUP 2019-12-10\2021-06-21 SAMPLE RESULTS\3\3\3 FIG-3-1 - GROUNDWATER SAMPLE RESULTS PLAN V.DWG 07/20/23 01:03:56PM, where: add: none, LAYOUT: FIG-3-1

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LOCATION	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217	MW-217
SAMPLING DATE	7/10/2019	3/6/2020	9/3/2020	4/28/2021	9/8/2021	11/19/2021	7/11/2022	6/29/2023
Trichlorofluoromethane (FREON 11)	12	22	5.6	47	55	62	52	18
Dichlorodifluoromethane (FREON 12)	5	5	0.31	5	5	5	5	5
Perfluorooctanesulfonic Acid (PFOS)	17	30	42.1	19.5	38.6	27	2.26	16
Perfluorooctanoic Acid (PFOA)	16.5	15.7	13.8	14.6	21.4	12.8	1.74	4.67

LOCATION	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216	MW-216
SAMPLING DATE	7/10/2019	3/6/2020	9/3/2020	4/28/2021	9/8/2021	11/19/2021	7/11/2022	6/29/2023
Trichlorofluoromethane (FREON 11)	120	48	6.9	29	5.3	4.7	5.5	4
Dichlorodifluoromethane (FREON 12)	48	15	3.9	11	3.6	J	3.6	J
Perfluorooctanesulfonic Acid (PFOS)	29.4	6.51	6.51	24.8	20.8	15.7	3.75	22.8
Perfluorooctanoic Acid (PFOA)	17.9	8.18	8.18	9.39	11.7	9.79	1.78	6.12

LOCATION	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213
SAMPLING DATE	1/29/2019	3/4/2020	9/2/2020	4/27/2021	9/8/2021	11/19/2021	7/12/2022	6/29/2023
Trichlorofluoromethane (FREON 11)	48	71	56	52	48	61	37	24
Dichlorodifluoromethane (FREON 12)	29	74	40	54	41	45	31	23
Perfluorooctanesulfonic Acid (PFOS)	91.2	73.4	60.7	70	64.1	67.4	7	41.9
Perfluorooctanoic Acid (PFOA)	40.4	32.8	26.5	27.7	24	25.4	1.03	14.4

LOCATION	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204
SAMPLING DATE	3/5/2020	9/2/2020	4/27/2021	9/9/2021	11/22/2021	7/11/2022
Perfluorooctanesulfonic Acid (PFOS)	5.05	12.1	4.41	7.56	4.68	1.8
Perfluorooctanoic Acid (PFOA)	2.22	3.94	1.53	1.95	1.28	1.8

LOCATION	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206
SAMPLING DATE	2/6/2019	3/5/2020	9/2/2020	4/27/2021	9/9/2021	11/22/2021	6/29/2023
Perfluorooctanesulfonic Acid (PFOS)	51.9	47.9	38.7	30.9	32.5	34.1	4.43
Perfluorooctanoic Acid (PFOA)	107	25.5	12.1	26	14.6	13.1	1.79

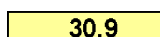
LOCATION	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207
SAMPLING DATE	2/6/2019	3/5/2020	9/3/2020	4/27/2021	9/9/2021	11/22/2021	6/29/2023
Perfluorooctanesulfonic Acid (PFOS)	34	11.3	22.1	8.36	29.9	17.4	1.5
Perfluorooctanoic Acid (PFOA)	23.4	6.59	5.46	2.2	9.68	3.64	1.8

LOCATION	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214
SAMPLING DATE	1/29/2019	3/4/2020	9/3/2020	4/27/2021	9/9/2021	11/22/2021	6/29/2023
Trichlorofluoromethane (FREON 11)	0.14	10	5.1	5.4	1	3	2.5
Dichlorodifluoromethane (FREON 12)	0.88	27	16	21	5	10	9.9
Perfluorooctanesulfonic Acid (PFOS)	48.5	47.3	46.6	40.3	30.5	56.2	35.6
Perfluorooctanoic Acid (PFOA)	68.6	29.9	25.8	29.5	15.9	24.7	0.826

LOCATION	MW-208	MW-208
SAMPLING DATE	2/7/2019	3/5/2020
Perfluorooctanesulfonic Acid (PFOS)	17.6	68.2
Perfluorooctanoic Acid (PFOA)	10.8	38.2

	NY-AQWS	Units
Ethylbenzene	5	ug/l
Trichlorofluoromethane (FREON 11)	5	ug/l
Dichlorodifluoromethane (FREON 12)	5	ug/l
Perfluorooctanesulfonic Acid (PFOS)	2.7	ng/l
Perfluorooctanoic Acid (PFOA)	6.7	ng/l

LEGEND

MW-201  - MONITORING WELL LOCATION AND DESIGNATION
 - EXCEEDS STANDARDS

Scale: 1"= 60'
0 30 60 120 180 240

KATERINA CHEREPANOV
CRONK
f/k/a KATERINA CRONK
INSTRUMENT NO. 2017-2245
SBL: 29-2-17

dwg by: YJ
chk by: FD
scale: AS NOTED
date: 07/20/2023

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015
MONITORING WELL LOCATIONS AND CONCENTRATIONS

job no. 9313
drawing no.

FIG-3.1



LOCATION	V-1	V-1	SMPV-1	SMPV-1	SMPV-1	SMPV-1	SMPV-1
SAMPLING DATE	12/14/2018	2/11/2019	3/6/2020	4/29/2021	9/20/2021	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results	Q	Results
1,3-Butadiene	66	U	370	U	0.442	U	0.442
Benzene	24	U	590	U	0.811	U	2.37
Trichlorofluoromethane (FREON 11)	3.5	U	380000	B	4.24	U	2.56
Dichlorodifluoromethane (FREON 12)	9.9	U	2600	U	3.21	U	2.36

LOCATION	V-2	V-2	SMPV-2	SMPV-2	SMPV-2	SMPV-2	SMPV-2
SAMPLING DATE	11/30/2018	2/11/2019	3/6/2020	4/29/2021	9/20/2021	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results	Q	Results
1,3-Butadiene	1.4	U	3.5	U	0.442	U	0.442
Benzene	2.3	U	5.6	U	0.639	U	1.52
Trichlorofluoromethane (FREON 11)	3.5	U	2300	B	1.12	U	21.5
Dichlorodifluoromethane (FREON 12)	9.9	U	110	U	2.16	U	2.52

LOCATION	V-3	SMPV-3	SMPV-3	SMPV-3
SAMPLING DATE	12/14/2018	3/6/2020	4/29/2021	7/12/2022
Units ug/m3	Results	Q	Results	Q
1,3-Butadiene	28	U	0.442	U
Benzene	5.1	U	0.639	U
Trichlorofluoromethane (FREON 11)	28	U	1.21	U
Dichlorodifluoromethane (FREON 12)	140	U	4.84	U

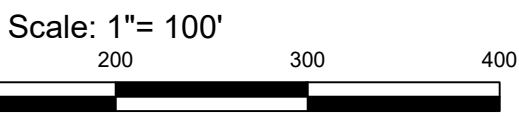
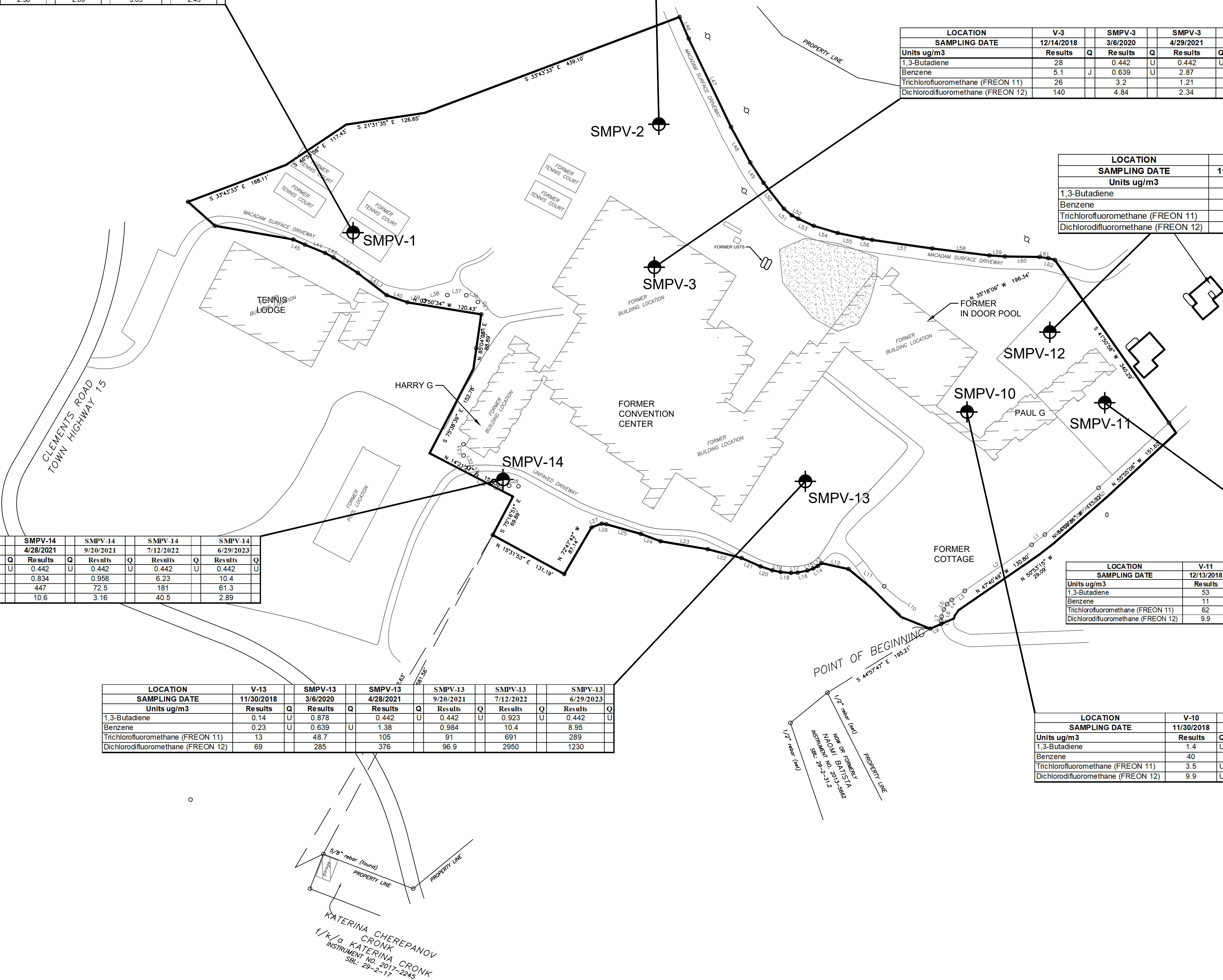
LOCATION	V-12	V-12	SMPV-12	SMPV-12	SMPV-12
SAMPLING DATE	11/30/2018	2/11/2019	3/6/2020	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results
1,3-Butadiene	1.4	U	5.7	U	0.442
Benzene	2.3	U	5.7	U	0.442
Trichlorofluoromethane (FREON 11)	3.5	U	5300	B	1.82
Dichlorodifluoromethane (FREON 12)	9.9	U	25	U	2.73

LOCATION	V-11	V-11	SMPV-11	SMPV-11	SMPV-11	SMPV-11
SAMPLING DATE	12/13/2018	2/11/2019	3/6/2020	4/29/2021	9/20/2021	7/12/2022
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	53	U	510	U	0.442	U
Benzene	11	U	810	U	0.652	U
Trichlorofluoromethane (FREON 11)	62	U	660000	B	9.72	U
Dichlorodifluoromethane (FREON 12)	9.9	U	3500	U	2.52	U

LOCATION	V-10	SMPV-10	SMPV-10	SMPV-10	SMPV-10	SMPV-10
SAMPLING DATE	11/30/2018	3/6/2020	4/29/2021	9/20/2021	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	0.442	U	0.442	U
Benzene	40	U	1.09	U	0.639	U
Trichlorofluoromethane (FREON 11)	3.5	U	111	U	7.81	U
Dichlorodifluoromethane (FREON 12)	9.9	U	73.2	U	8.41	U

LOCATION	V-13	SMPV-13	SMPV-13	SMPV-13	SMPV-13	SMPV-13
SAMPLING DATE	11/30/2018	3/6/2020	4/29/2021	9/20/2021	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	0.14	U	0.878	U	0.442	U
Benzene	0.23	U	0.639	U	1.38	U
Trichlorofluoromethane (FREON 11)	13	U	48.7	U	105	U
Dichlorodifluoromethane (FREON 12)	69	U	285	U	376	U

LOCATION	V-14	V-14	SMPV-14	SMPV-14	SMPV-14	SMPV-14	SMPV-14
SAMPLING DATE	11/30/2018	2/11/2019	3/6/2020	4/29/2021	9/20/2021	7/12/2022	6/29/2023
Units ug/m3	Results	Q	Results	Q	Results	Q	Results
1,3-Butadiene	1.4	U	5	U	0.442	U	0.442
Benzene	18	U	16	U	0.834	U	0.958
Trichlorofluoromethane (FREON 11)	4.5	U	4600	B	826	U	447
Dichlorodifluoromethane (FREON 12)	21	U	1400	U	82.1	U	10.6



REFERENCE
SITE INFORMATION TAKEN FROM "PRELIMINARY MAP". DATED FEBRUARY 1993.
LAST UPDATED ON DECEMBER 2009.

- LEGEND:
- SMPV-12 - LOCATION AND AND SOIL VAPOR POINT NUMBER
 - BROWNFIELDS CLEAN-UP PROGRAM (BCP) TOTAL AREA = 17.30+0.87 ACRES SITE BOUNDARY

N:\VAPOR\313\2023-07-14 VAPOR RESULTS\313 FIG-3.2 - SOIL VAPOR RESULTS PLAN 07-14-23.DWG 07/14/23 01:28:12PM, con.wrd, LAYOUT FIG-3.2

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12154

SOIL VAPOR POINT SAMPLE
RESULTS PLAN

job no. 9313C
drawing no.

FIG-3.2

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dwg by: AW
chk by: SG
scale: AS NOTED
date: 07/14/2023

by description

rev date

Chart 1 - Freon 11 (ug/l) Groundwater Concentration Trends
Former Grossingers Resort, NYSDEC Site # C353015

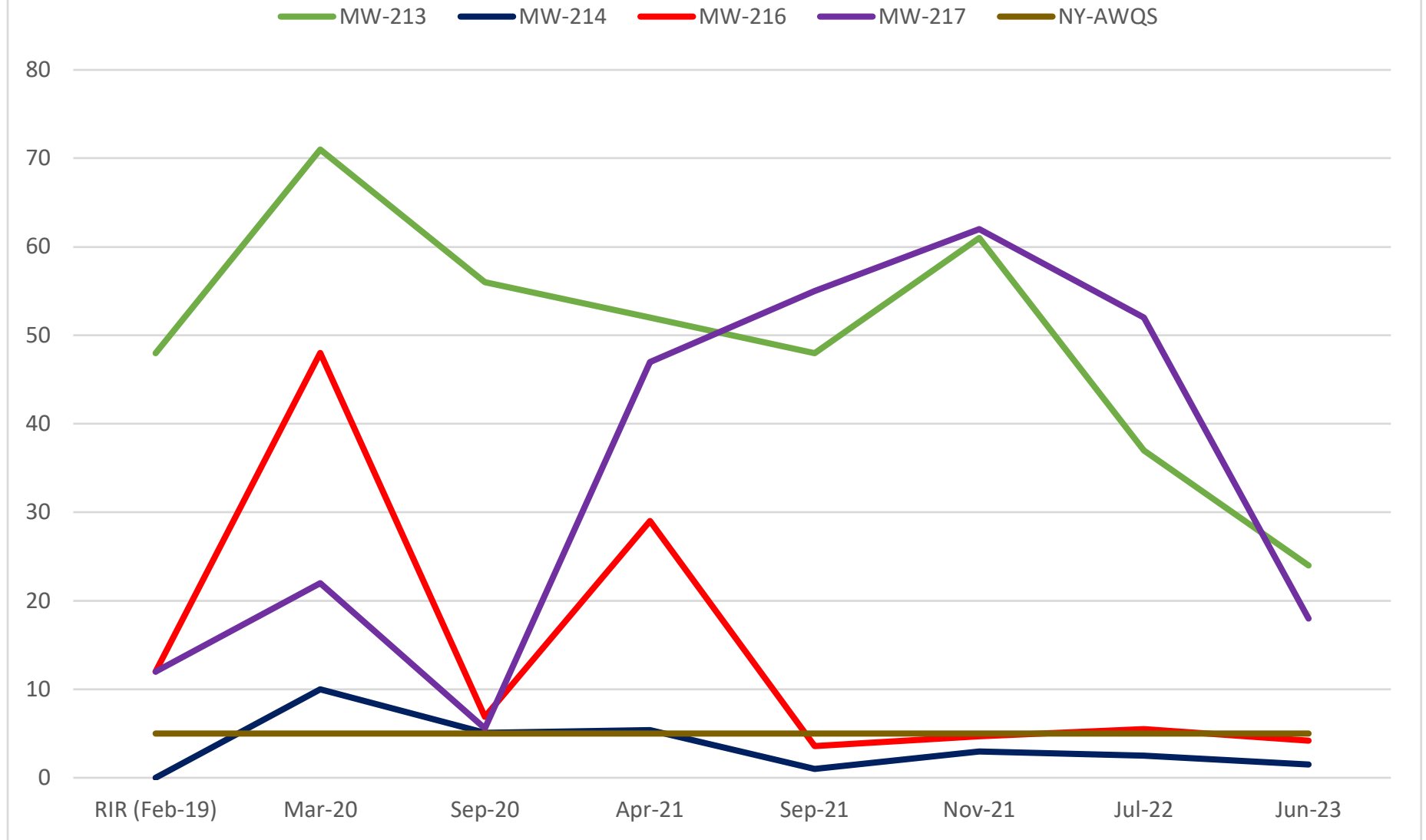
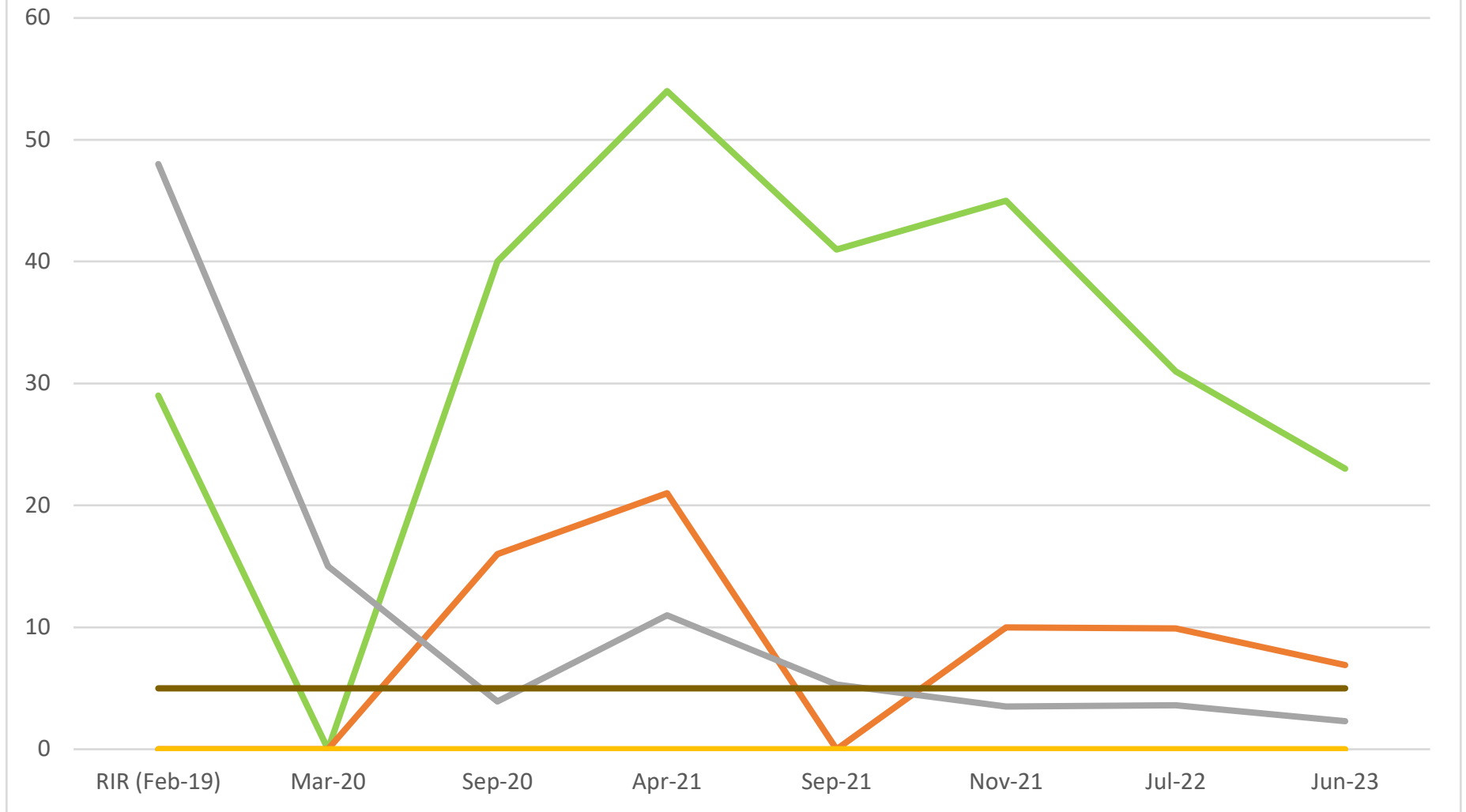


Chart 2 - Freon 12 (ug/l) Groundwater Concentration Trends
Former Grossingers Resort, NYSDEC Site # C353015

MW-213 MW-214 MW-216 MW-217 NY-AWQS



 MW-203
 MW-204
 MW-206
 MW-207

 MW-213
 MW-214
 MW-216
 MW-217
 NY-AWQS

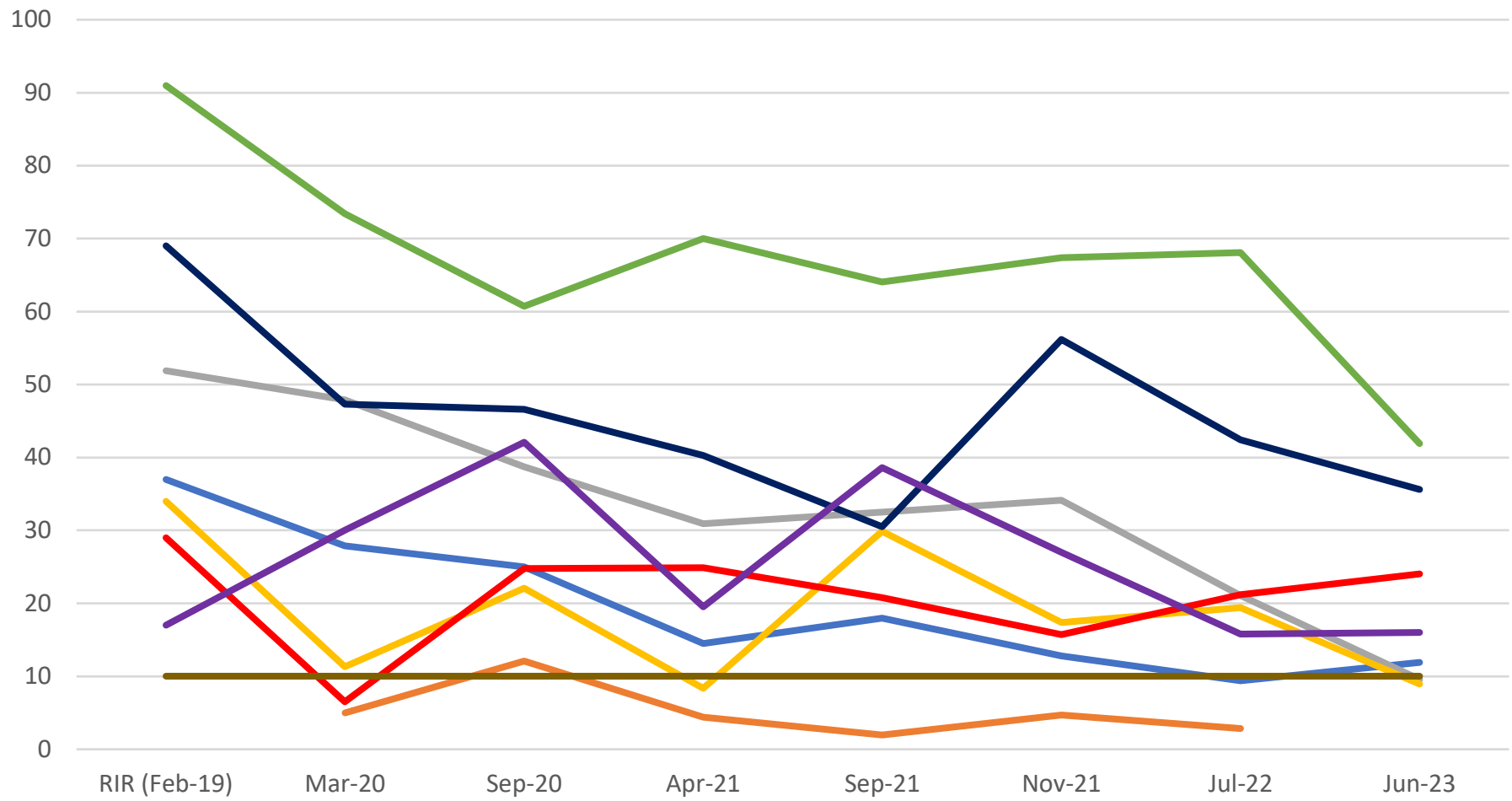
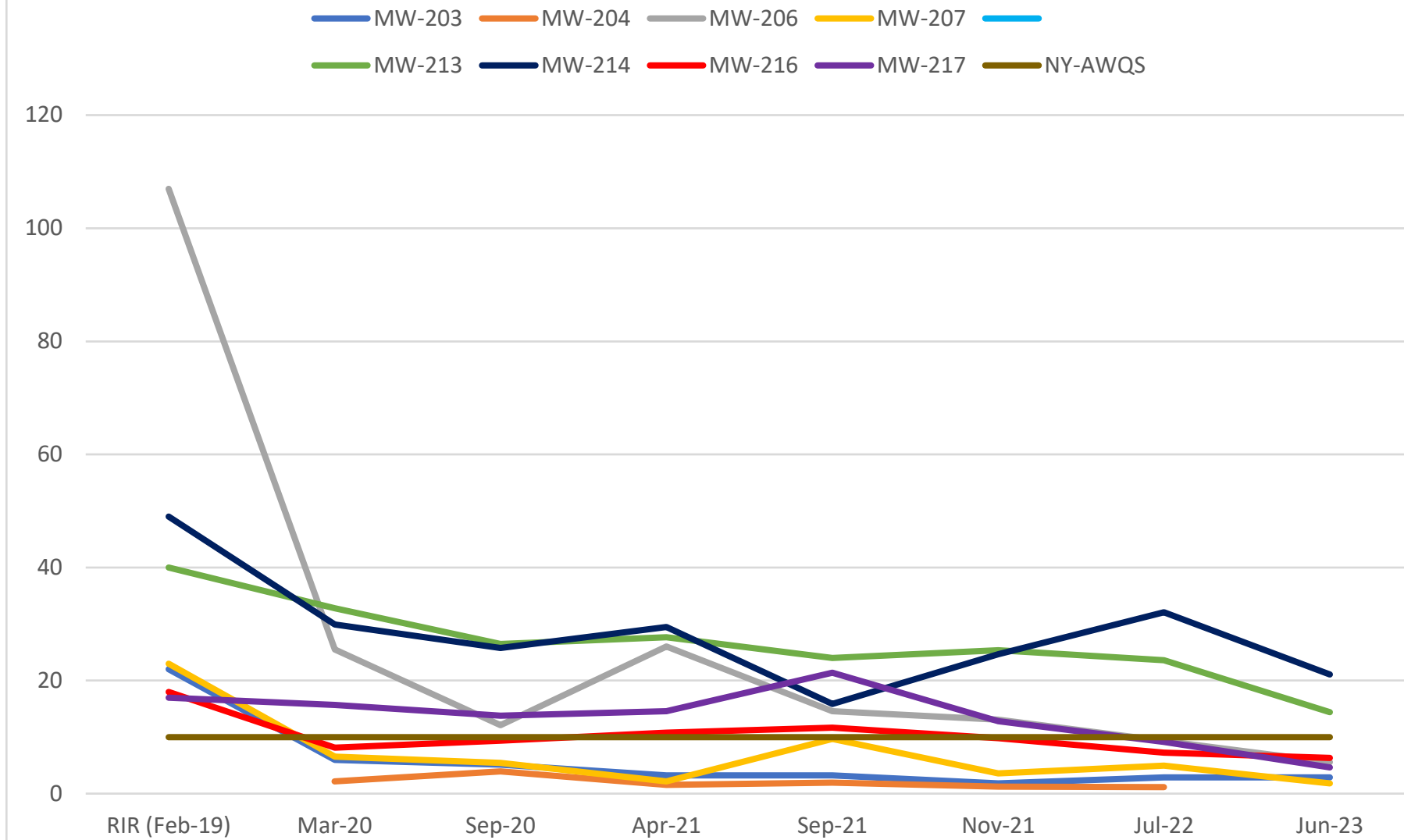


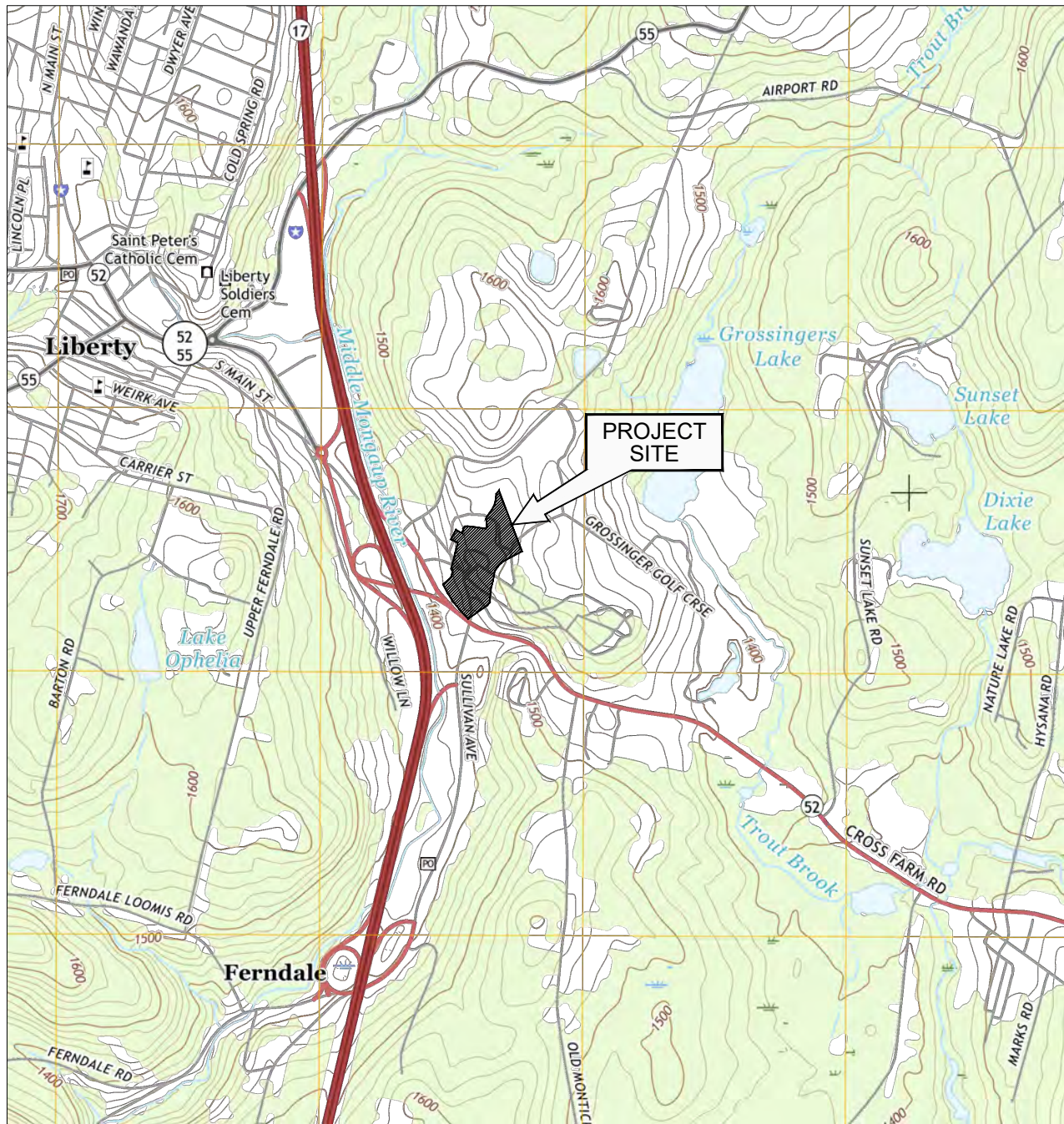
Chart 4 - PFOA (ng/l) Groundwater Concentration Trends
Former Grossingers Resort, NYSDEC Site # C353015



Appendix A:

Site Management Plan (SMP) Figures

N: \\ACAD\\9313\\SMP 2019-12-12-10\\9313 SITE PLAN FIG-1.1.DWG 12/11/19 02:56:24PM, jenny, LAYOUT:FIG-1.1



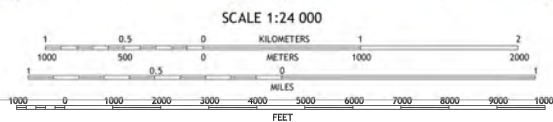
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 18T
10 000-foot ticks: New York Coordinate System of 1983 (east
zone)

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Imagery.....NAIP, July 2013
Roads.....U.S. Census Bureau, 2015 - 2016
Names.....GNIS, 2016
Hydrography.....National Hydrography Dataset, 2013
Contours.....National Elevation Dataset, 1999
Boundaries.....Multiple sources; see metadata file 1972 - 2016
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



U.S. National Grid 100,000-m Square ID
WM
Grid Zone Designation 18T



CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19



1	2	3	1 Livingston Manor
4	5	6	2 Willowemoc
7	8	9	3 Clayville
			4 Liberty West
			5 Grahamsville
			6 White Lake
			7 Monticello
			8 Woodridge

FIG-1.1

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

SITE PLAN

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SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

DRAWN BY: yy
CHECKED BY: FD
SCALE: N.T.S.
DATE: 12/11/19
JOB NO.: 9313



dwg by: yy
chk by: FD
scale: 1" = 80'
date: 8/20/19

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

Drawing title:

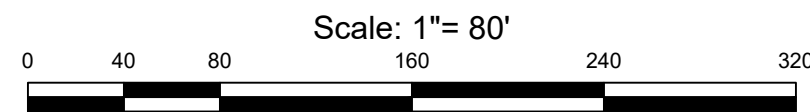
job no. 9313
drawing no.

FIG-1.2

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LEGEND

◆ - MONITORING WELL LOCATION

⊗ - FREE PRODUCT DETECTED

--- - GROUNDWATER CONTOUR

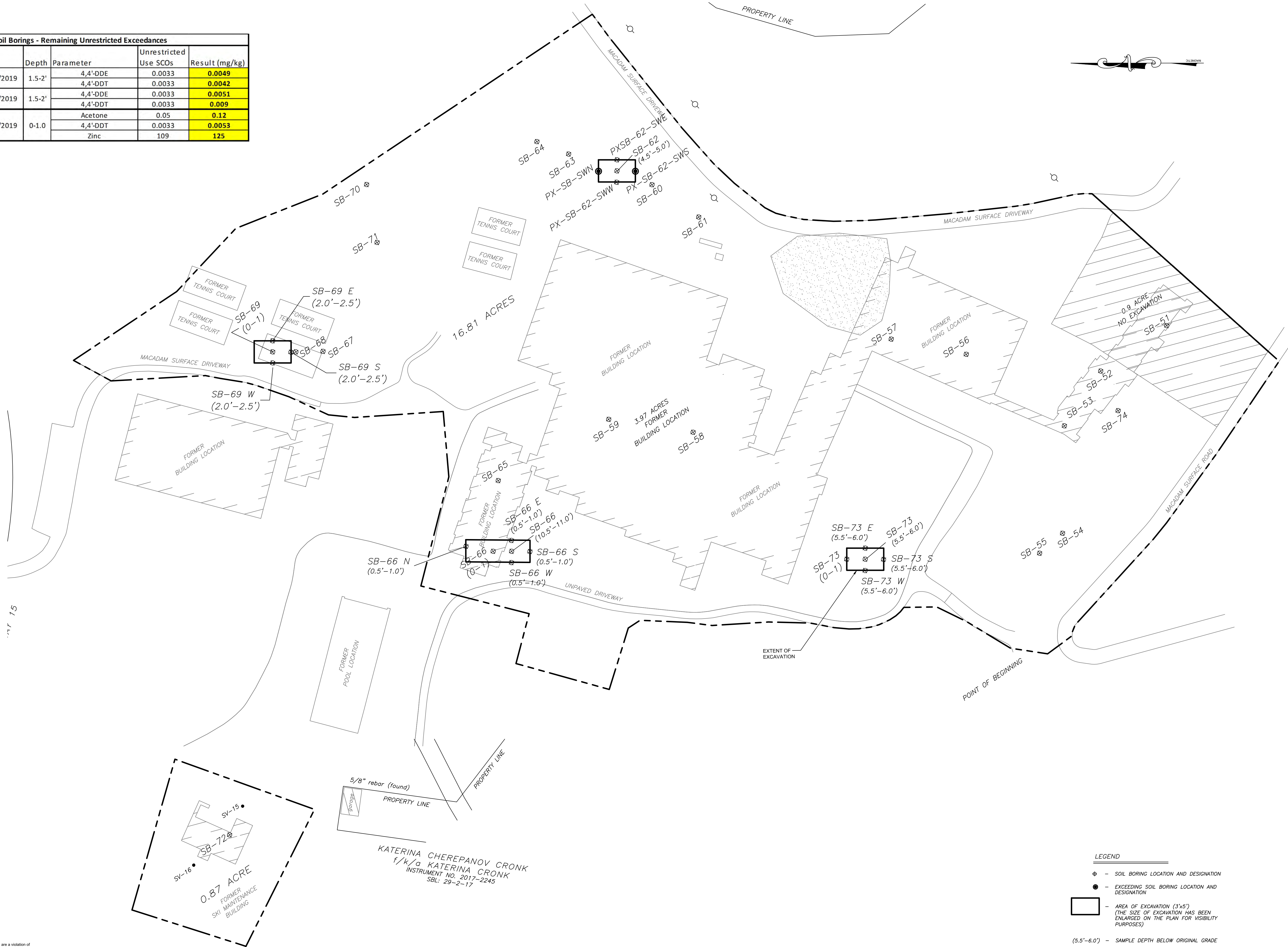
GROUNDWATER CONTOUR MAP

FIG- 2.1

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

ate: 12/21/18

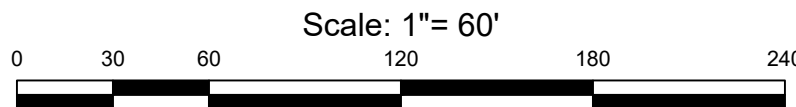
Soil Borings - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SB-62-SWN	1/17/2019	1.5'-2'	4,4'-DDE	0.0033	0.0049
			4,4'-DDT	0.0033	0.0042
SB-62-SWS	1/17/2019	1.5'-2'	4,4'-DDE	0.0033	0.0051
			4,4'-DDT	0.0033	0.009
SB-73 (0-1)	1/17/2019	0-1.0	Acetone	0.05	0.12
			4,4'-DDT	0.0033	0.0053
			Zinc	109	125



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REFERENCE
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DATED DECEMBER 10, 2018.



ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

job no. 9313
drawing no.

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

SOIL BORING INVESTIGATION RESULTS

SESICONSULTING ENGINEERS D.P.C.

122A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050

dwg by: JY
chk by: FD
scale: 1" = 60'
date: 08/20/19

rev description

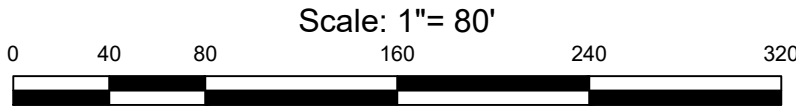
FIG 2.2

N:\MAGADAM\131\VER JULY 2019\0313 FIG-3.8.DWG 08/20/19 09:55:55AM, WPM, LAYOUT.FIG-3.8

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Surface Soil Pesticide Excavation Areas - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SS-27		0-2"	4,4'-DDT	0.0033	0.010
			4,4'-DDT	0.0033	0.027
			4,4'-DDE	0.0033	0.007
			4,4'-DDD	0.0033	0.005
SS-28		0-2"	Dieldrin	0.005	0.029
			4,4'-DDT	0.0033	0.013
			4,4'-DDE	0.0033	0.004
SS-33		0-2"	4,4'-DDT	0.0033	0.013
			4,4'-DDE	0.0033	0.004

REFERENCE
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- LEGEND
- - SURFACE SOIL SAMPLE LOCATION
 - ▨ - EXCAVATION AREA (DEPTH VARIES)
 - 1479.1 x - ELEVATION OF TOP/BOTTOM OF EXCAVATION
 - (0"-2") - SAMPLE DEPTH BELOW ORIGINAL GRADE



ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title:
PESTICIDES SURFACE INVESTIGATION RESULTS

job no. 9313
drawing no.

FIG 2.3

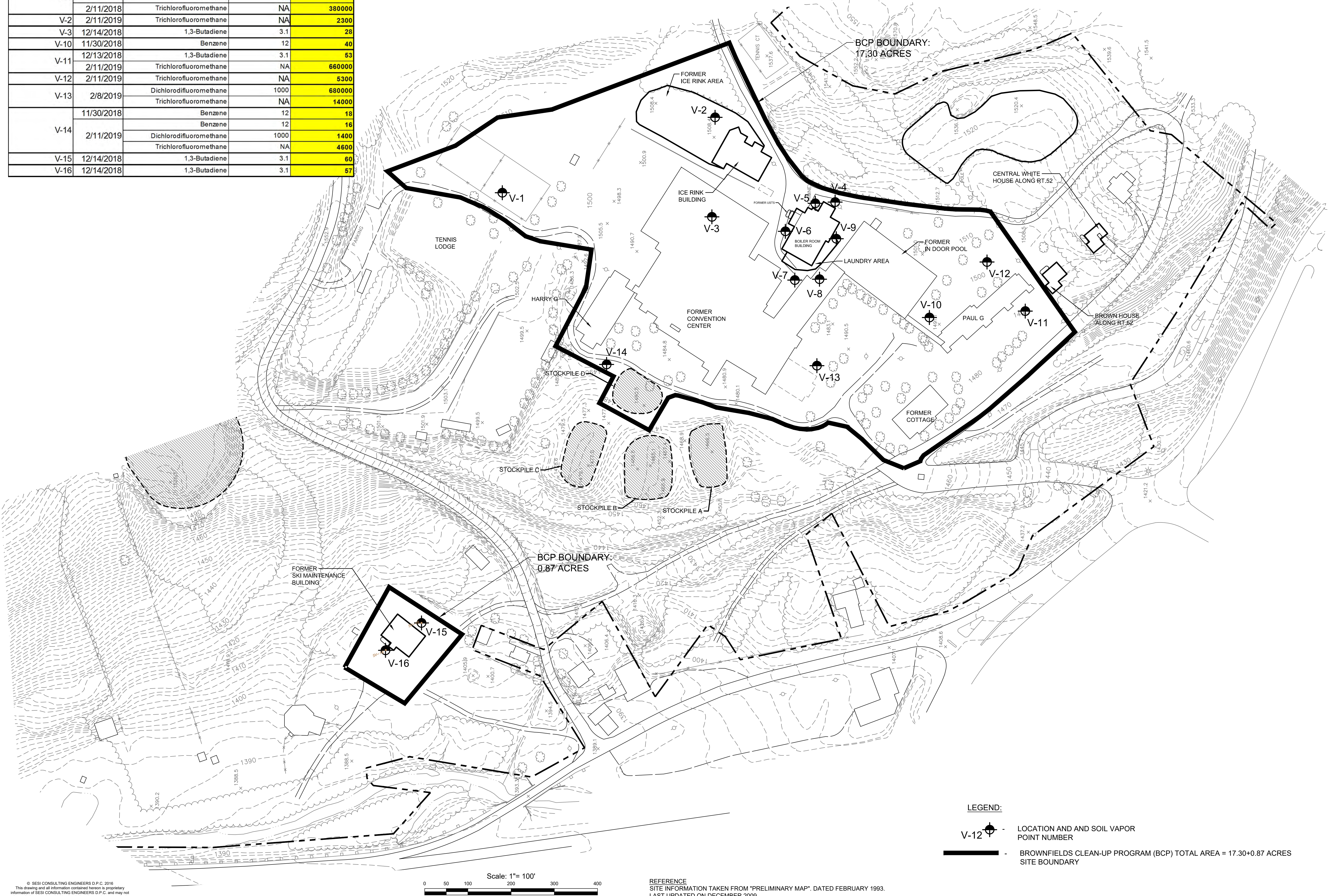
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SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

dwg by: YJ
chk by: FD
scale: 1" = 80'
date: 08/20/19

rev
date
by
description

Soil Vapor Data				
Sample Number	Date	Parameter	EPA Technical Guidance (ug/m3)	Result (ug/m3)
V-1	12/14/2018	1,3-Butadiene	3.1	66
	2/11/2018	Benzene	12	24
V-2	2/11/2018	Trichlorofluoromethane	NA	380000
	2/11/2019	Trichlorofluoromethane	NA	2300
V-3	12/14/2018	1,3-Butadiene	3.1	28
V-10	11/30/2018	Benzene	12	40
V-11	12/13/2018	1,3-Butadiene	3.1	53
	2/11/2019	Trichlorofluoromethane	NA	660000
V-12	2/11/2019	Trichlorofluoromethane	NA	5300
V-13	2/8/2019	Dichlorodifluoromethane	1000	680000
	2/8/2019	Trichlorofluoromethane	NA	14000
V-14	11/30/2018	Benzene	12	18
	2/11/2019	Benzene	12	16
	2/11/2019	Dichlorodifluoromethane	1000	1400
	2/11/2019	Trichlorofluoromethane	NA	4600
V-15	12/14/2018	1,3-Butadiene	3.1	60
V-16	12/14/2018	1,3-Butadiene	3.1	57



ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754

SOIL VAPOR POINT LOCATION PLAN

job no. 9313

drawing no.

drawing title:

FIG-2.4

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SOILS / FOUNDATIONS

SITE DESIGN

ENVIRONMENTAL

dwg by: YJ

chk by: FD

scale: 1" = 100'

date: 08/20/19

rev

date

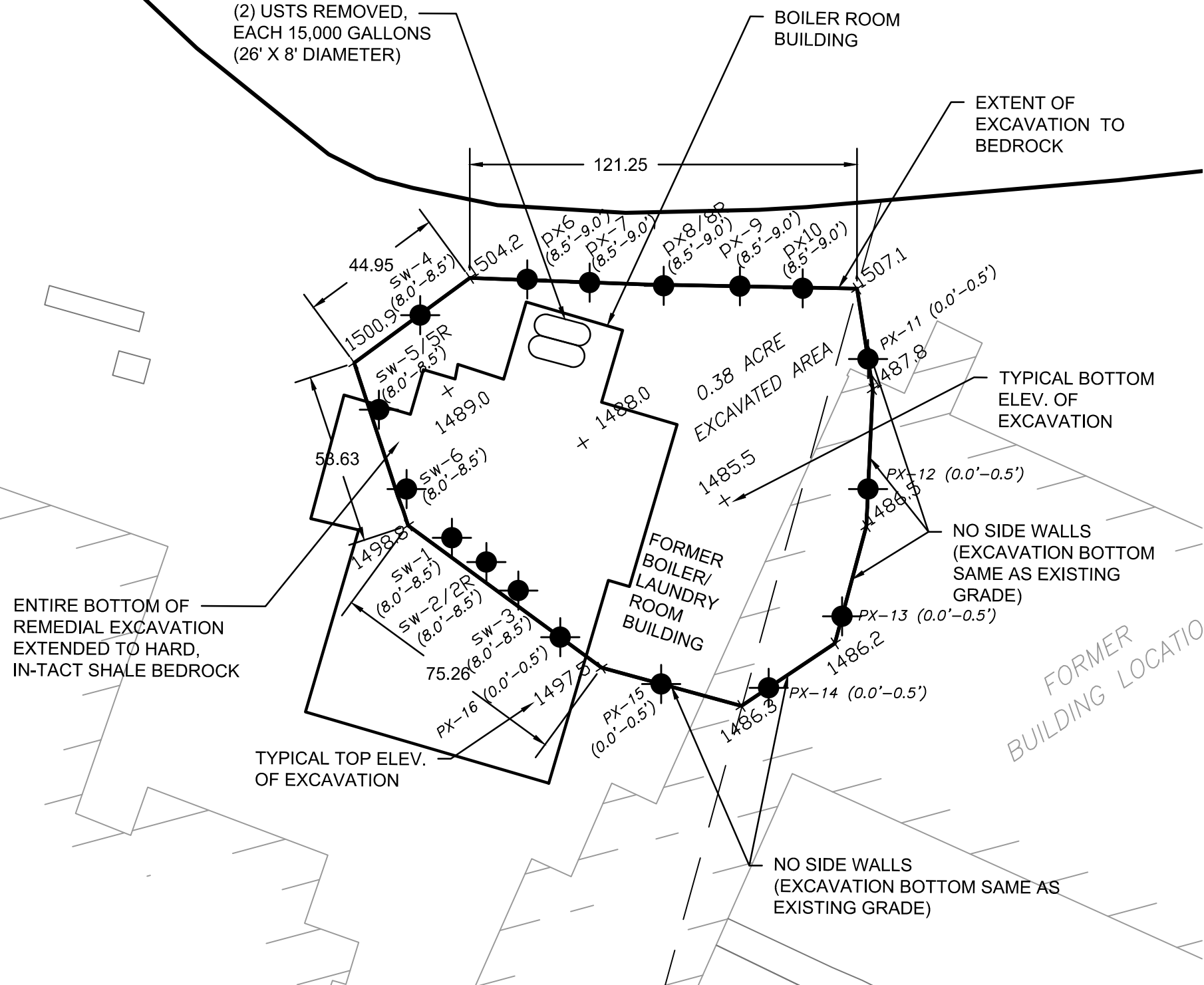
description

by

N:\ACAD\9313\FER JULY 2019\9313 FIG-3.1.DWG 08/23/19 09:18:36AM, Jenny, LAYOUT:FIG-3.1

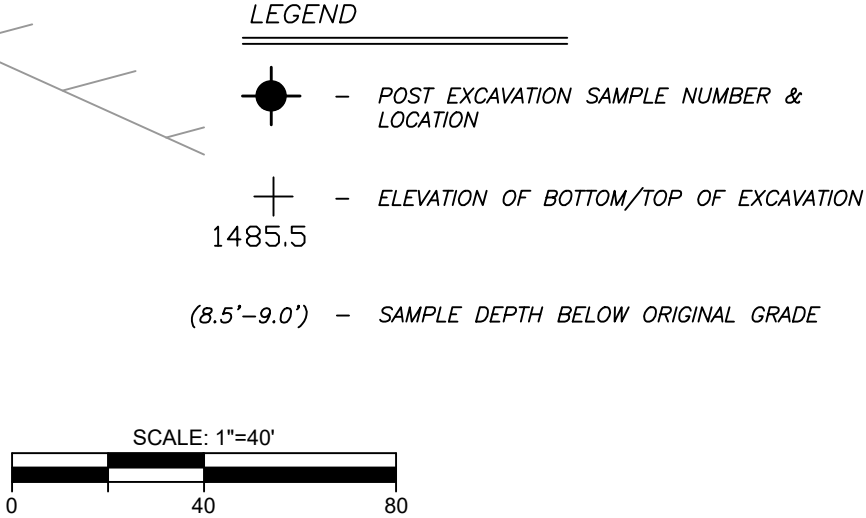
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UST LNAPL AREA - REMAINING UNRESTRICTED EXCEEDANCES					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SW-5	12/7/2018	8-8.5'	Xylenes	0.26	0.52
SW-2R	6/27/2019	8-8.5	4,4'-DDT	0.0033	0.0135

REFERENCE
SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC.,
DATED DECEMBER 10, 2018.



dwg by: yy
chk by: FD
scale: 1" = 40'
date: 8/20/19

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

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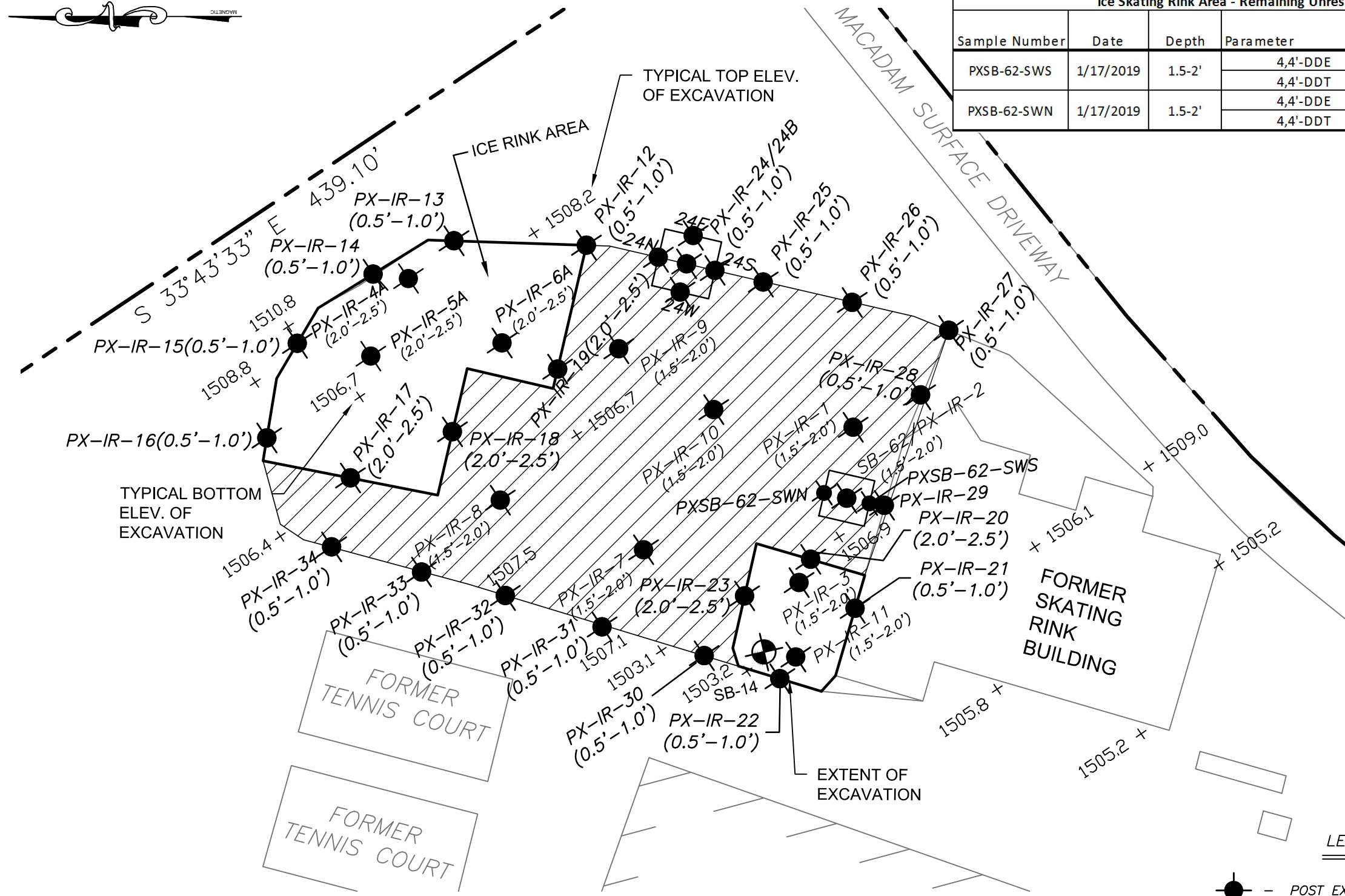
project: ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: UST REMOVAL / LNAPL
EXCAVATION AREA

job no: 9313
drawing no:

FIG 2.5

N:\ACAD\9313\FER JULY 2019\9313 FIG-3.3.DWG 08/20/19 10:02:47AM, Jenny, LAYOUT: FIG-3.3

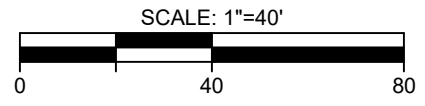


Ice Skating Rink Area - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
PXSB-62-SWS	1/17/2019	1.5-2'	4,4'-DDE	0.0033	0.005
			4,4'-DDT	0.0033	0.009
PXSB-62-SWN	1/17/2019	1.5-2'	4,4'-DDE	0.0033	0.005
			4,4'-DDT	0.0033	0.004

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- LEGEND
- POST EXCAVATION SAMPLE NUMBER & LOCATION
 - PHASE II LOCATION AND SOIL BORING NUMBER/MONITORING WELL NUMBER
 - SAMPLE DEPTH BELOW ORIGINAL GRADE
 - ELEVATION OF TOP/BOTTOM OF EXCAVATION
 - AREA OF CONCRETE AND STAINED SOIL REMOVAL 1.5 FEET DEPTH

dwg by: yy
chk by: FD
scale: 1" = 40'
date: 8/20/19

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

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project: ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: ICE RINK AREA
EXCAVATION PLAN

job no: 9313
drawing no:

FIG-2.6

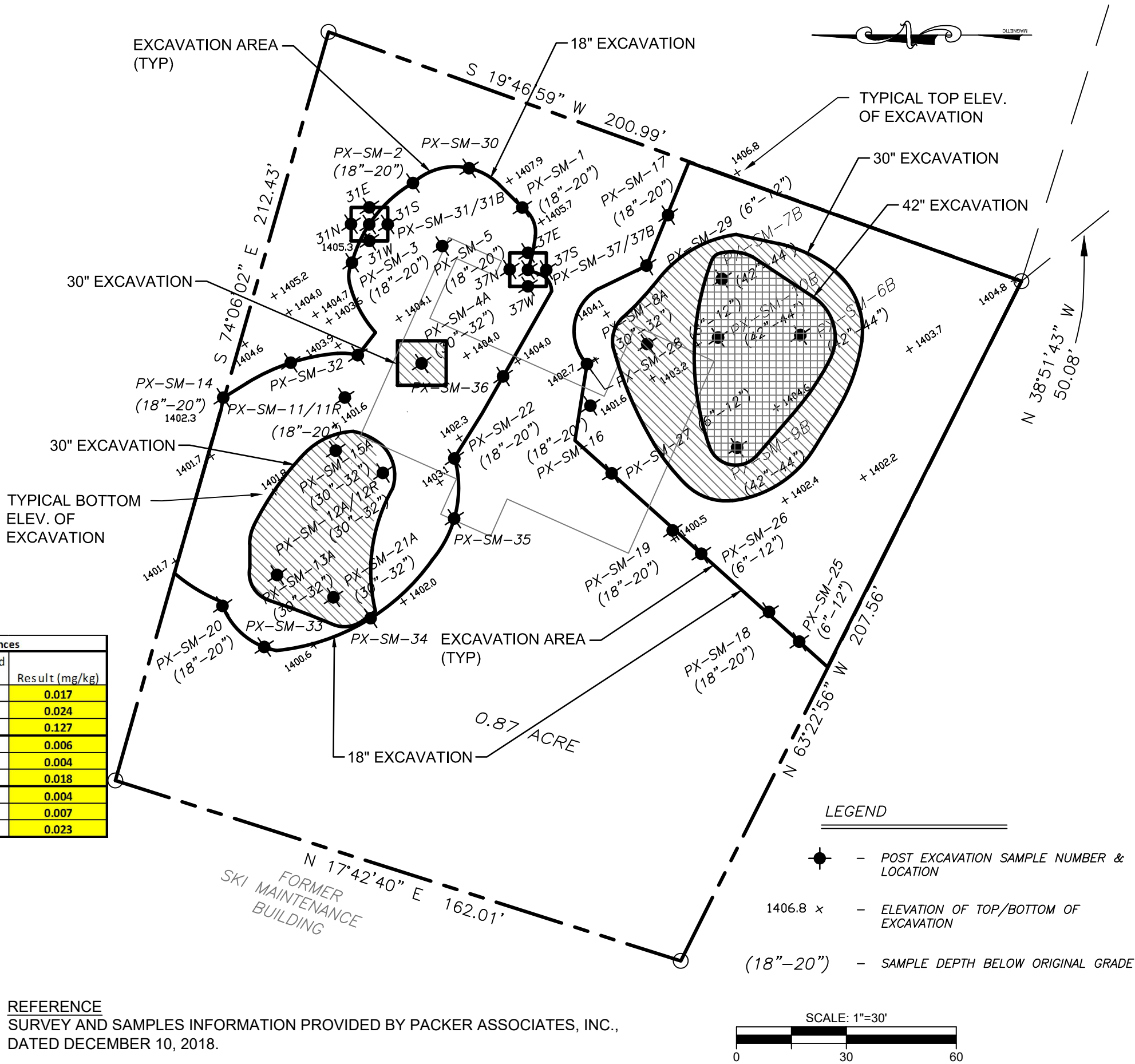
N:\ACAD\9313\FER JULY 2019\9313 FIG-3.2.DWG 08/20/19 10:02:29AM, Jenny, LAYOUT: FIG-3.2

Ski Maintenance Area - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
PX-SM-37W	7/16/2019	6-12"	4,4'-DDD	0.0033	0.017
			4,4'-DDE	0.0033	0.024
			4,4'-DDT	0.0033	0.127
PX-SM-37S	7/16/2019	6-12"	4,4'-DDD	0.0033	0.006
			4,4'-DDE	0.0033	0.004
			4,4'-DDT	0.0033	0.018
PX-SM-37N	7/16/2019	6-12"	4,4'-DDD	0.0033	0.004
			4,4'-DDE	0.0033	0.007
			4,4'-DDT	0.0033	0.023

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dwg by: yy
chk by: FD
scale: 1" = 30'
date: 7/31/19

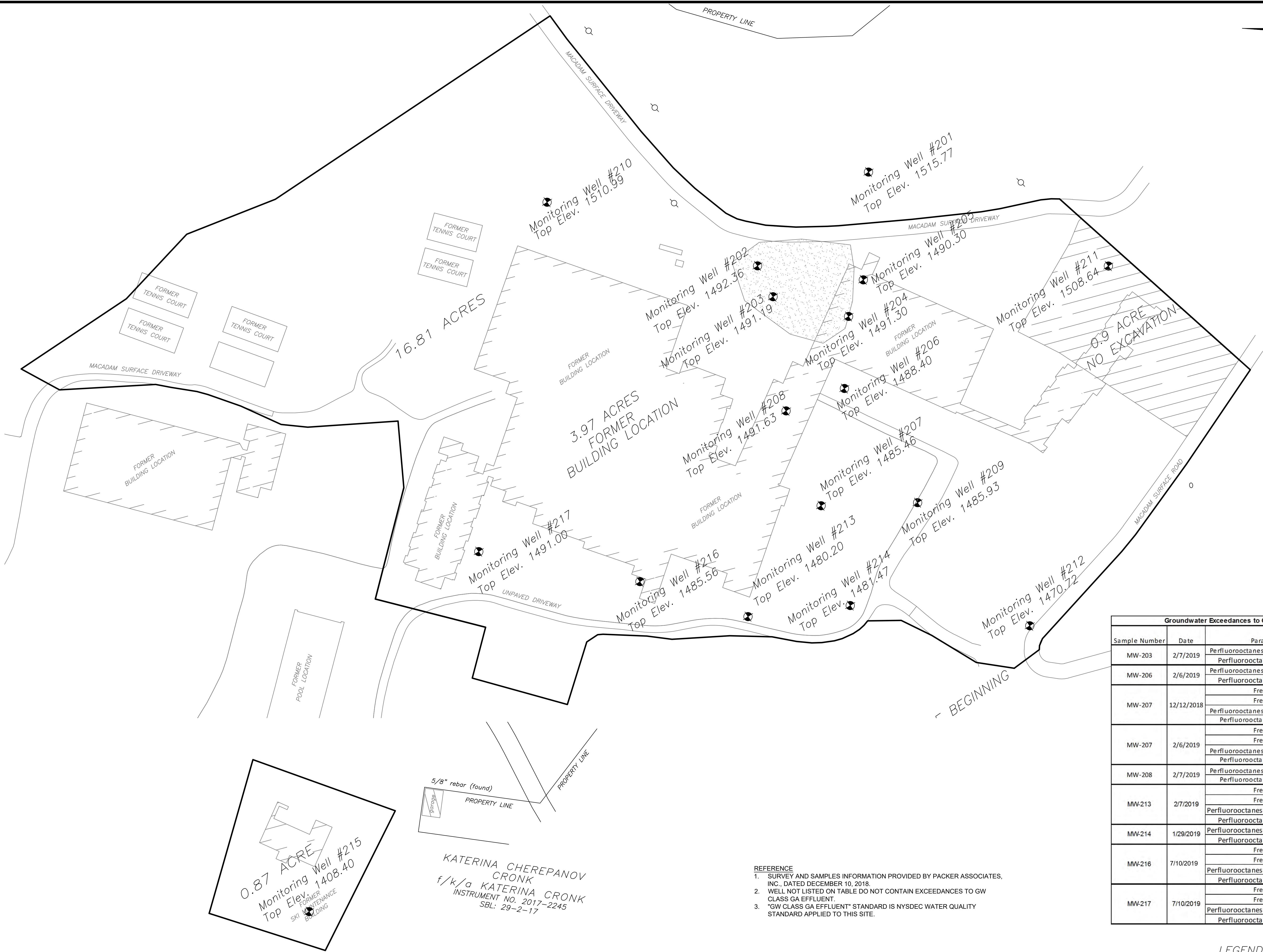
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
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project: ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015
drawing title: EXCAVATION PLAN
SKI MAINTENANCE AREA

job no: 9313
drawing no:
FIG 2.7

N:\VADO\231\VER 2018-12-05\2313 FIG 3.11.DWG 12/17/19 11:26:11AM jerry.lavoie\Fig-3.11

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- REFERENCE
1. SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.
 2. WELL NOT LISTED ON TABLE DO NOT CONTAIN EXCEEDANCES TO GW CLASS GA EFFLUENT.
 3. "GW CLASS GA EFFLUENT" STANDARD IS NYSDEC WATER QUALITY STANDARD APPLIED TO THIS SITE.

- NOTES:
- ALL WELLS SAMPLED FOR TCL/TAL +30, PFAS, AND 1,4 DIOXANE
 - NO EXCEEDANCES WERE DETECTED FOR ANY OF THE COMPOUNDS.

Groundwater Exceedances to GW Class GA Effluent Standards				
Sample Number	Date	Parameter	GW Class GA Effluent	ug/L
MW-203	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	0.037
		Perfluorooctanoic acid (PFOA)	0.010*	0.022
MW-206	2/6/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	0.052
		Perfluorooctanoic acid (PFOA)	0.010*	0.107
MW-207	12/12/2018	Freon 12	5	13
		Freon 11	5	15
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.091
		Perfluorooctanoic acid (PFOA)	0.010*	0.1
MW-207	2/6/2019	Freon 12	5	1.2
		Freon 11	5	1.6
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.034
		Perfluorooctanoic acid (PFOA)	0.010*	0.023
MW-208	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	0.018
		Perfluorooctanoic acid (PFOA)	0.010*	0.011
MW-213	2/7/2019	Freon 12	5	29
		Freon 11	5	48
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.091
MW-214	1/29/2019	Perfluorooctanoic acid (PFOA)	0.010*	0.04
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.049
		Perfluorooctanoic acid (PFOA)	0.010*	0.069
		Freon 12	5	48
MW-216	7/10/2019	Freon 11	5	120
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.029
		Perfluorooctanoic acid (PFOA)	0.010*	0.018
		Freon 12	5	ND
MW-217	7/10/2019	Freon 11	5	12
		Perfluorooctanesulfonic acid (PFOS)	0.010*	0.017
		Perfluorooctanoic acid (PFOA)	0.010*	0.017

LEGEND

MW-201 — MONITORING WELL LOCATION AND DESIGNATION

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

MONITORING WELL LOCATION PLAN

job no.
drawing no.

9313

dwg by: jv
chk by: FD
scale: 1" = 60'
date: 12/05/19

rev
date
by
description

FIG-2.8

Appendix B:

Well Sampling Logs

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Location: Grossingers rd.			Job Number: 9313B			WELL I.D. : MW-207			
Personnel: RR			Date: 6/29/2023						
			PID: 0						
Stickup? Y	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
Distance ground to Stickup Rim/PVC		15.3	NE	9.1	6.2	12.2	12		Peristaltic
Turbidity at collection (NTU):		16.45	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
0	1410	23.48	6.44	180	2.52	25	134	9.1	N
3	1415	18.89	6.64	179	4.66	121	1000	10.7	N
Well Condition Summary									
Cover: y	Bolts: N		Concrete Pad OK: N/A	Gripper: Y					
Sample Collection Information									
Sample Time:	6/29/2023 1500	Appearance: BROWN-CLOUDY	Filtered Sample Turbidity:	OTHER:					
Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.									
Notes/ Calculations: Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.									
ABSORBENT SOCK									
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :			
Sock Installation Date:			Sock Changed :		Y / N				
Sock Depth (Depth to sock mid point):									

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Location: Grossingers rd.		Job Number: 9313		WELL I.D. : MW-213					
Personnel: RR		Date: 6/29/2023							
		PID: 0							
Stickup? Y	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
Distance ground to Stickup Rim/PVC		20.7	NE	15.2	5.5	17.95	18		Peristaltic
Turbidity at collection (NTU):		242	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1201	23.45	7.11	691	0.06	191	1000	15.2	N
	1206	16.89	6.77	726	0	189	761	15.5	N
	1211	15.86	6.56	689	0	182	540	15.6	N
	1216	15.76	6.38	702	0	187	346	15.75	N
	1221	15.68	6.32	711	0	188	338	15.8	N
	1226	15.54	6.27	716	0	194	289	15.8	N
	1231	15.48	6.18	719	0	189	264	15.9	N
	1236	15.51	6.19	723	0	188	242	15.95	N
Well Condition Summary									
Cover: y	Bolts: N		Concrete Pad OK: Y	Gripper: Y					
Sample Collection Information									
Sample Time:	6/29/2023 1240	Appearance: CLOUDY	Filtered Sample Turbidity: CLOUDY	OTHER:					
Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.									
Notes/ Calculations:									
Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.									
ABSORBENT SOCK									
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :			
Sock Installation Date:			Sock Changed :		Y / N				
Sock Depth (Depth to sock mid point):									

LOW-FLOW GROUNDWATER SAMPLING LOG

Location: <u>Grossingers rd.</u>		Job Number: <u>9313B</u>		WELL I.D. : MW-216					
Personnel: <u>RR</u>		Date: <u>6/29/2023</u>							
		PID: <u>0</u>							
Stickup? Y	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
Distance ground to Stickup Rim/PVC		20.5	NE	8.1	12.4	14.3	14		Peristaltic
Turbidity at collection (NTU):		9	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
0.75	1000	17.44	6.14	208	0	230	142	8.3	N
1.5	1010	16.95	6.33	250	0	221	50	8.3	N
1.75	1018	16.56	6.37	215	0	268	24.7	8.5	N
2.35	1027	16.19	6.4	275	0	310	33.5	8.6	N
2.75	1036	15.75	6.37	276	0	204	29.9	8.75	N
3.25	1041	15.65	6.36	274	0	191	32.1	8.75	N
3.75	1046	15.61	6.39	278	0	187	26.9	8.75	N
4	1051	15.75	6.37	276	0	204	28.1	8.8	N
4.25	1056	12	6.36	308	0	184	20.9	8.8	N
5	1101	12.16	6.39	311	0	184	16.8	8.8	N
5.5	1106	12.18	6.44	310	0	184	17.3	8.8	N
6.5	1111	12.17	6.45	313	0	185	13.1	8.85	N
7.25	1116	12.24	6.45	312	0	185	13	8.85	N
7.75	1121	12.06	6.46	313	0	185	9.9	8.85	N
8.125	1126	12.11	6.47	314	0	185	9	8.85	N
Well Condition Summary									
Cover: y		Bolts: N	Concrete Pad OK: N/A			Gripper: Y			
Sample Collection Information									
Sample Time:	6/29/2023 11:30	Appearance: CLEAR	Filtered Sample Turbidity:			OTHER:			
Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.									
Notes/ Calculations: Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.									
ABSORBENT SOCK									
Sock Length (ft) =		Capacity (Qt.) =		Present:		Y / N		Product Measured (Inches) :	
Sock Installation Date:				Sock Changed :		Y / N			
Sock Depth (Depth to sock mid point):									

Location: Grossingers rd.		Job Number: 9313		WELL I.D. : MW-217					
Personnel: RR		Date: 6/29/2023							
		PID:		0					
Stickup? Y	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
Distance ground to Stickup Rim/PVC									Peristaltic
3.5		19.8	NE	11	8.8	15.4	15.4		Peristaltic
Turbidity at collection (NTU):		11.36	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
before sample	18.6	6.93	6.93	336	0.38	184	96.2	11	N
0	1240	25.2	6.88	244	0.86	128	1000	11.8	N
After sample (5.5 gal)	1310	18.02	6.2	198	1.82	192	138	11.6	N
									N
									N
									N
									N
									N
									N
									N
									N
									N
									N
									N
									N
5.5									N
Well Condition Summary									
Cover: Y		Bolts: N		Concrete Pad OK: N/A		Gripper: Y			
Sample Collection Information									
Sample Time:	0:00	Appearance: brown-cloudy		Filtered Sample Turbidity:			OTHER:		
Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.									
Notes/ Calculations:									
Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.									
ABSORBENT SOCK									
Sock Length (ft) =		Capacity (Qt.) =			Present:	Y / N	Product Measured (Inches) :		
Sock Installation Date:				Sock Changed :		Y / N			
Sock Depth (Depth to sock mid point):									

Appendix C:

Groundwater Laboratory Analytical Data



ANALYTICAL REPORT

Lab Number:	L2337731
Client:	Soils Engineering Services, Inc. 959 Route 46E Parsippany, NJ 07054
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGS
Project Number:	9313C
Report Date:	07/14/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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



Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2337731-01	MW-216 (DUP)	WATER	LIBERTY, NY	06/29/23 11:35	06/29/23
L2337731-02	MW-216	WATER	LIBERTY, NY	06/29/23 11:30	06/29/23
L2337731-03	MW-213	WATER	LIBERTY, NY	06/29/23 12:40	06/29/23
L2337731-04	MW-214	WATER	LIBERTY, NY	06/29/23 11:35	06/29/23
L2337731-05	MW-203	WATER	LIBERTY, NY	06/29/23 14:20	06/29/23
L2337731-06	MW-207	WATER	LIBERTY, NY	06/29/23 15:00	06/29/23
L2337731-07	MW-217	WATER	LIBERTY, NY	06/29/23 13:15	06/29/23
L2337731-08	MW-206	WATER	LIBERTY, NY	06/29/23 16:15	06/29/23
L2337731-09	FB-20230629	WATER	LIBERTY, NY	06/29/23 17:50	06/29/23
L2337731-10	TRIP BLANK	WATER	LIBERTY, NY	06/29/23 00:00	06/29/23

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Case Narrative

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

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

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

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

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

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

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Case Narrative (continued)

Report Submission

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

Sample Receipt

The analyses performed were specified by the client.

Perfluorinated Alkyl Acids by Isotope Dilution

L2337731-03, -05, and -07: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2337731-07: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

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

Authorized Signature:



Kelly O'Neill

Title: Technical Director/Representative

Date: 07/14/23

ORGANICS

VOLATILES

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-01
 Client ID: MW-216 (DUP)
 Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
 Date Received: 06/29/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/12/23 00:56
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	4.3		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-01
 Client ID: MW-216 (DUP)
 Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
 Date Received: 06/29/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	2.4	J	ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-01
 Client ID: MW-216 (DUP)
 Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
 Date Received: 06/29/23
 Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

Total TIC Compounds	3.33	J	ug/l	1
Fluorodichloromethane	3.33	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-02

Date Collected: 06/29/23 11:30

Client ID: MW-216

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 01:21

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	4.0		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-02

Date Collected: 06/29/23 11:30

Client ID: MW-216

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	2.2	J	ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-02
Client ID: MW-216
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:30
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

Total TIC Compounds	3.08	J	ug/l	1
Fluorodichloromethane	3.08	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-03

Date Collected: 06/29/23 12:40

Client ID: MW-213

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 01:46

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	24		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-03

Date Collected: 06/29/23 12:40

Client ID: MW-213

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	23		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-03

Date Collected: 06/29/23 12:40

Client ID: MW-213

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

Total TIC Compounds	11.0	J	ug/l	1
Fluorodichloromethane	11.0	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-04

Date Collected: 06/29/23 11:35

Client ID: MW-214

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 02:10

Analyst: MJV

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

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-04

Date Collected: 06/29/23 11:35

Client ID: MW-214

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	6.9		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-04
Client ID: MW-214
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

Total TIC Compounds	2.81	J	ug/l	1
Fluorodichloromethane	2.81	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-05

Date Collected: 06/29/23 14:20

Client ID: MW-203

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 02:35

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.25	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	5.1		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-05

Date Collected: 06/29/23 14:20

Client ID: MW-203

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	0.74	J	ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	1.5	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-05

Date Collected: 06/29/23 14:20

Client ID: MW-203

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	4.2		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.89	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	0.89	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	3.0		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Tentatively Identified Compounds

Total TIC Compounds	23.1	J	ug/l	1
Pentane, 2,3-dimethyl-	1.42	NJ	ug/l	1
Unknown Aromatic	3.58	J	ug/l	1
Unknown	1.74	J	ug/l	1
Unknown Benzene	2.01	J	ug/l	1
Unknown Benzene	1.89	J	ug/l	1
Pentane, 2-methyl-	3.72	NJ	ug/l	1
Pentane, 3-methyl-	3.80	NJ	ug/l	1
Unknown Aromatic	2.12	J	ug/l	1
Unknown Aromatic	1.40	J	ug/l	1
Cyclopentane, Methyl-	1.40	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-06

Date Collected: 06/29/23 15:00

Client ID: MW-207

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 03:00

Analyst: MJV

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

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-06

Date Collected: 06/29/23 15:00

Client ID: MW-207

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-06
Client ID: MW-207
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:00
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-07

Date Collected: 06/29/23 13:15

Client ID: MW-217

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 03:24

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	18		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-07

Date Collected: 06/29/23 13:15

Client ID: MW-217

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-07
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 13:15
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-08

Date Collected: 06/29/23 16:15

Client ID: MW-206

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 14:51

Analyst: PID

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

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-08

Date Collected: 06/29/23 16:15

Client ID: MW-206

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-08
Client ID: MW-206
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 16:15
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-09

Date Collected: 06/29/23 17:50

Client ID: FB-20230629

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/12/23 15:15

Analyst: PID

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

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-09

Date Collected: 06/29/23 17:50

Client ID: FB-20230629

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-09
Client ID: FB-20230629
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 17:50
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-10

Date Collected: 06/29/23 00:00

Client ID: TRIP BLANK

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/13/23 14:08

Analyst: MAG

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

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-10

Date Collected: 06/29/23 00:00

Client ID: TRIP BLANK

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-10
Client ID: TRIP BLANK
Sample Location: LIBERTY, NY

Date Collected: 06/29/23 00:00
Date Received: 06/29/23
Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

Total TIC Compounds	2.43	J	ug/l	1
Unknown	2.43	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/11/23 22:02
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1802213-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/11/23 22:02
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1802213-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/23 22:02
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1802213-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/11/23 22:02
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1802213-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/12/23 09:14
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1802823-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D

Analytical Date: 07/12/23 09:14

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1802823-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/12/23 09:14
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1802823-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GROSSINGS**Project Number:** 9313C**Lab Number:** L2337731**Report Date:** 07/14/23**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260D

Analytical Date: 07/12/23 09:14

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1802823-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/13/23 07:51
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1803177-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/13/23 07:51
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1803177-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/13/23 07:51
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1803177-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/13/23 07:51
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1803177-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1802213-3 WG1802213-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	96		95		70-130	1		20
Carbon tetrachloride	89		90		63-132	1		20
1,2-Dichloropropane	88		92		70-130	4		20
Dibromochloromethane	77		77		63-130	0		20
1,1,2-Trichloroethane	86		88		70-130	2		20
Tetrachloroethene	92		92		70-130	0		20
Chlorobenzene	96		96		75-130	0		20
Trichlorofluoromethane	97		94		62-150	3		20
1,2-Dichloroethane	92		95		70-130	3		20
1,1,1-Trichloroethane	92		94		67-130	2		20
Bromodichloromethane	87		88		67-130	1		20
trans-1,3-Dichloropropene	77		77		70-130	0		20
cis-1,3-Dichloropropene	85		88		70-130	3		20
1,1-Dichloropropene	85		88		70-130	3		20
Bromoform	73		75		54-136	3		20
1,1,2,2-Tetrachloroethane	85		84		67-130	1		20
Benzene	94		95		70-130	1		20
Toluene	96		96		70-130	0		20
Ethylbenzene	98		98		70-130	0		20
Chloromethane	96		91		64-130	5		20
Bromomethane	67		67		39-139	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1802213-3 WG1802213-4								
Vinyl chloride	100		99		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	100		97		61-145	3		20
trans-1,2-Dichloroethene	99		98		70-130	1		20
Trichloroethene	91		94		70-130	3		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,3-Dichlorobenzene	98		98		70-130	0		20
1,4-Dichlorobenzene	95		97		70-130	2		20
Methyl tert butyl ether	85		88		63-130	3		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	97		96		70-130	1		20
1,2,3-Trichloropropane	86		86		64-130	0		20
Acrylonitrile	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	94		89		36-147	5		20
Acetone	92		94		58-148	2		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	82		89		63-138	8		20
Vinyl acetate	81		78		70-130	4		20
4-Methyl-2-pentanone	80		78		59-130	3		20
2-Hexanone	84		88		57-130	5		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1802213-3 WG1802213-4								
Bromochloromethane	96		98		70-130	2		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	85		83		70-130	2		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	86		85		64-130	1		20
Bromobenzene	95		96		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	94		97		70-130	3		20
o-Chlorotoluene	98		100		70-130	2		20
p-Chlorotoluene	97		100		70-130	3		20
1,2-Dibromo-3-chloropropane	83		85		41-144	2		20
Hexachlorobutadiene	98		99		63-130	1		20
Isopropylbenzene	98		99		70-130	1		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	85		81		70-130	5		20
n-Propylbenzene	98		100		69-130	2		20
1,2,3-Trichlorobenzene	90		88		70-130	2		20
1,2,4-Trichlorobenzene	90		86		70-130	5		20
1,3,5-Trimethylbenzene	98		100		64-130	2		20
1,2,4-Trimethylbenzene	98		98		70-130	0		20
1,4-Dioxane	106		100		56-162	6		20
p-Diethylbenzene	99		99		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1802213-3 WG1802213-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	81		78		70-130	4		20
Ethyl ether	92		90		59-134	2		20
trans-1,4-Dichloro-2-butene	77		76		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	99		101		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1802823-3 WG1802823-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	92		93		70-130	1		20
Chloroform	90		94		70-130	4		20
Carbon tetrachloride	96		96		63-132	0		20
1,2-Dichloropropane	88		90		70-130	2		20
Dibromochloromethane	93		96		63-130	3		20
1,1,2-Trichloroethane	95		100		70-130	5		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	96		97		75-130	1		20
Trichlorofluoromethane	95		96		62-150	1		20
1,2-Dichloroethane	92		95		70-130	3		20
1,1,1-Trichloroethane	97		98		67-130	1		20
Bromodichloromethane	89		93		67-130	4		20
trans-1,3-Dichloropropene	89		94		70-130	5		20
cis-1,3-Dichloropropene	83		85		70-130	2		20
1,1-Dichloropropene	94		96		70-130	2		20
Bromoform	88		96		54-136	9		20
1,1,2,2-Tetrachloroethane	90		100		67-130	11		20
Benzene	89		90		70-130	1		20
Toluene	96		97		70-130	1		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	100		100		64-130	0		20
Bromomethane	77		76		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1802823-3 WG1802823-4								
Vinyl chloride	100		99		55-140	1		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	90		91		61-145	1		20
trans-1,2-Dichloroethene	90		91		70-130	1		20
Trichloroethene	85		88		70-130	3		20
1,2-Dichlorobenzene	92		96		70-130	4		20
1,3-Dichlorobenzene	94		96		70-130	2		20
1,4-Dichlorobenzene	95		95		70-130	0		20
Methyl tert butyl ether	90		96		63-130	6		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	89		90		70-130	1		20
Dibromomethane	88		94		70-130	7		20
1,2,3-Trichloropropane	83		97		64-130	16		20
Acrylonitrile	79		94		70-130	17		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	84		100		58-148	17		20
Carbon disulfide	90		91		51-130	1		20
2-Butanone	73		93		63-138	24	Q	20
Vinyl acetate	88		92		70-130	4		20
4-Methyl-2-pentanone	81		94		59-130	15		20
2-Hexanone	75		96		57-130	25	Q	20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1802823-3 WG1802823-4								
Bromochloromethane	94		95		70-130	1		20
2,2-Dichloropropane	85		76		63-133	11		20
1,2-Dibromoethane	88		98		70-130	11		20
1,3-Dichloropropane	89		96		70-130	8		20
1,1,1,2-Tetrachloroethane	97		100		64-130	3		20
Bromobenzene	95		95		70-130	0		20
n-Butylbenzene	94		94		53-136	0		20
sec-Butylbenzene	95		95		70-130	0		20
tert-Butylbenzene	91		93		70-130	2		20
o-Chlorotoluene	94		95		70-130	1		20
p-Chlorotoluene	92		93		70-130	1		20
1,2-Dibromo-3-chloropropane	83		100		41-144	19		20
Hexachlorobutadiene	91		92		63-130	1		20
Isopropylbenzene	93		94		70-130	1		20
p-Isopropyltoluene	92		93		70-130	1		20
Naphthalene	73		88		70-130	19		20
n-Propylbenzene	93		94		69-130	1		20
1,2,3-Trichlorobenzene	84		93		70-130	10		20
1,2,4-Trichlorobenzene	84		87		70-130	4		20
1,3,5-Trimethylbenzene	96		96		64-130	0		20
1,2,4-Trimethylbenzene	93		94		70-130	1		20
1,4-Dioxane	70		88		56-162	23	Q	20
p-Diethylbenzene	92		91		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1802823-3 WG1802823-4								
p-Ethyltoluene	93		94		70-130	1		20
1,2,4,5-Tetramethylbenzene	81		82		70-130	1		20
Ethyl ether	90		95		59-134	5		20
trans-1,4-Dichloro-2-butene	79		92		70-130	15		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		101		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	98		96		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1803177-3 WG1803177-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	99		100		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	96		99		54-136	3		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	110		100		70-130	10		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		100		64-130	10		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1803177-3 WG1803177-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	100		98		55-138	2		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	96		99		64-130	3		20
Acrylonitrile	96		100		70-130	4		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	76		93		58-148	20		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	90		93		63-138	3		20
Vinyl acetate	160	Q	180	Q	70-130	12		20
4-Methyl-2-pentanone	95		100		59-130	5		20
2-Hexanone	92		100		57-130	8		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1803177-3 WG1803177-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	98		99		70-130	1		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	99		100		41-144	1		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	98		110		70-130	12		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	96		98		56-162	2		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1803177-3 WG1803177-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	99		100		59-134	1		20
trans-1,4-Dichloro-2-butene	80		84		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-01
 Client ID: MW-216 (DUP)
 Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
 Date Received: 06/29/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 07/12/23 00:41
 Analyst: JW

Extraction Method: ALPHA 23528
 Extraction Date: 07/06/23 16:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.95		ng/l	1.77	0.362	1
Perfluoropentanoic Acid (PFPeA)	1.89		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	1.13	J	ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	1.83	F	ng/l	1.77	0.291	1
Perfluoroheptanoic Acid (PFHpA)	1.47	J	ng/l	1.77	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	1.88		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	6.51		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.610	1
Perfluorononanoic Acid (PFNA)	0.724	JF	ng/l	1.77	0.277	1
Perfluorooctanesulfonic Acid (PFOS)	25.3		ng/l	1.77	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.699	J	ng/l	1.77	0.575	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.869	1
Perfluorooctanesulfonamide (FOSA)	0.560	JF	ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.915	J	ng/l	1.77	0.713	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	31.8		ng/l	1.77	0.209	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-01
 Client ID: MW-216 (DUP)
 Sample Location: LIBERTY, NY

Date Collected: 06/29/23 11:35
 Date Received: 06/29/23
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-02

Date Collected: 06/29/23 11:30

Client ID: MW-216

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:20

Analytical Date: 07/12/23 00:58

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.01		ng/l	1.74	0.354	1
Perfluoropentanoic Acid (PFPeA)	1.74		ng/l	1.74	0.344	1
Perfluorobutanesulfonic Acid (PFBS)	1.02	J	ng/l	1.74	0.207	1
Perfluorohexanoic Acid (PFHxA)	1.62	J	ng/l	1.74	0.285	1
Perfluoroheptanoic Acid (PFHpA)	1.70	J	ng/l	1.74	0.196	1
Perfluorohexanesulfonic Acid (PFHxS)	1.92		ng/l	1.74	0.327	1
Perfluorooctanoic Acid (PFOA)	6.12		ng/l	1.74	0.205	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.74	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.74	0.598	1
Perfluorononanoic Acid (PFNA)	0.650	JF	ng/l	1.74	0.271	1
Perfluorooctanesulfonic Acid (PFOS)	22.8		ng/l	1.74	0.438	1
Perfluorodecanoic Acid (PFDA)	0.313	J	ng/l	1.74	0.264	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.74	1.05	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.74	0.563	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.74	0.226	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.74	0.851	1
Perfluorooctanesulfonamide (FOSA)	0.744	JF	ng/l	1.74	0.504	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.74	0.698	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.74	0.323	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.74	0.284	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.74	0.215	1
PFOA/PFOS, Total	28.9		ng/l	1.74	0.205	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-02

Date Collected: 06/29/23 11:30

Client ID: MW-216

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	123		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-03

Date Collected: 06/29/23 12:40

Client ID: MW-213

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:20

Analytical Date: 07/12/23 01:15

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.61		ng/l	1.76	0.360	1
Perfluoropentanoic Acid (PFPeA)	4.91		ng/l	1.76	0.349	1
Perfluorobutanesulfonic Acid (PFBS)	1.65	J	ng/l	1.76	0.210	1
Perfluorohexanoic Acid (PFHxA)	3.95	F	ng/l	1.76	0.289	1
Perfluoroheptanoic Acid (PFHpA)	3.50		ng/l	1.76	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	3.41		ng/l	1.76	0.331	1
Perfluorooctanoic Acid (PFOA)	14.4		ng/l	1.76	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.76	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.76	0.606	1
Perfluorononanoic Acid (PFNA)	1.44	JF	ng/l	1.76	0.275	1
Perfluorooctanesulfonic Acid (PFOS)	41.9		ng/l	1.76	0.444	1
Perfluorodecanoic Acid (PFDA)	0.663	J	ng/l	1.76	0.268	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.76	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.76	0.571	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.76	0.229	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.864	1
Perfluorooctanesulfonamide (FOSA)	0.663	JF	ng/l	1.76	0.511	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.76	0.709	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.76	0.328	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.288	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.76	0.219	1
PFOA/PFOS, Total	56.3		ng/l	1.76	0.208	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-03

Date Collected: 06/29/23 12:40

Client ID: MW-213

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	156	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	81		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	63		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-04

Date Collected: 06/29/23 11:35

Client ID: MW-214

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:23

Analytical Date: 07/12/23 01:31

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.78		ng/l	1.74	0.355	1
Perfluoropentanoic Acid (PFPeA)	4.11		ng/l	1.74	0.344	1
Perfluorobutanesulfonic Acid (PFBS)	1.44	J	ng/l	1.74	0.207	1
Perfluorohexanoic Acid (PFHxA)	4.20		ng/l	1.74	0.285	1
Perfluoroheptanoic Acid (PFHpA)	3.89		ng/l	1.74	0.196	1
Perfluorohexanesulfonic Acid (PFHxS)	4.28		ng/l	1.74	0.327	1
Perfluorooctanoic Acid (PFOA)	21.1		ng/l	1.74	0.205	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.74	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.922	J	ng/l	1.74	0.599	1
Perfluorononanoic Acid (PFNA)	0.954	JF	ng/l	1.74	0.271	1
Perfluorooctanesulfonic Acid (PFOS)	35.6		ng/l	1.74	0.438	1
Perfluorodecanoic Acid (PFDA)	0.271	J	ng/l	1.74	0.264	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.74	1.05	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.74	0.564	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.74	0.226	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.74	0.853	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.74	0.505	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.74	0.700	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.74	0.324	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.74	0.285	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.74	0.216	1
PFOA/PFOS, Total	56.7		ng/l	1.74	0.205	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-04

Date Collected: 06/29/23 11:35

Client ID: MW-214

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	76		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	65		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-05

Date Collected: 06/29/23 14:20

Client ID: MW-203

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:23

Analytical Date: 07/12/23 02:04

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.55	J	ng/l	1.75	0.356	1
Perfluoropentanoic Acid (PFPeA)	0.905	J	ng/l	1.75	0.346	1
Perfluorobutanesulfonic Acid (PFBS)	0.524	J	ng/l	1.75	0.208	1
Perfluorohexanoic Acid (PFHxA)	0.619	J	ng/l	1.75	0.287	1
Perfluoroheptanoic Acid (PFHpA)	0.741	J	ng/l	1.75	0.197	1
Perfluorohexanesulfonic Acid (PFHxS)	0.780	J	ng/l	1.75	0.329	1
Perfluorooctanoic Acid (PFOA)	2.89		ng/l	1.75	0.206	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.601	1
Perfluorononanoic Acid (PFNA)	0.297	JF	ng/l	1.75	0.273	1
Perfluorooctanesulfonic Acid (PFOS)	11.9		ng/l	1.75	0.440	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.266	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.566	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.227	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.856	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.507	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.703	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.325	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.286	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.217	1
PFOA/PFOS, Total	14.8		ng/l	1.75	0.206	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-05

Date Collected: 06/29/23 14:20

Client ID: MW-203

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	184	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	163	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-06

Date Collected: 06/29/23 15:00

Client ID: MW-207

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:23

Analytical Date: 07/12/23 02:21

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.464	J	ng/l	1.77	0.361	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	0.258	J	ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	0.319	J	ng/l	1.77	0.290	1
Perfluoroheptanoic Acid (PFHpA)	0.368	JF	ng/l	1.77	0.199	1
Perfluorohexanesulfonic Acid (PFHxS)	0.538	J	ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	1.81		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.609	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	8.97		ng/l	1.77	0.446	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.269	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.574	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.868	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.712	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.329	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	10.8		ng/l	1.77	0.209	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-06

Date Collected: 06/29/23 15:00

Client ID: MW-207

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	83		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-07

Date Collected: 06/29/23 13:15

Client ID: MW-217

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:23

Analytical Date: 07/12/23 02:37

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.30	J	ng/l	1.72	0.351	1
Perfluoropentanoic Acid (PFPeA)	0.982	J	ng/l	1.72	0.341	1
Perfluorobutanesulfonic Acid (PFBS)	0.978	J	ng/l	1.72	0.205	1
Perfluorohexanoic Acid (PFHxA)	0.820	J	ng/l	1.72	0.282	1
Perfluoroheptanoic Acid (PFHpA)	0.778	J	ng/l	1.72	0.194	1
Perfluorohexanesulfonic Acid (PFHxS)	2.03		ng/l	1.72	0.324	1
Perfluorooctanoic Acid (PFOA)	4.67		ng/l	1.72	0.203	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.72	1.15	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.72	0.592	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.72	0.269	1
Perfluorooctanesulfonic Acid (PFOS)	16.0		ng/l	1.72	0.434	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.72	0.262	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.72	1.04	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.72	0.558	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.72	0.224	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.72	0.844	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.72	0.692	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.72	0.320	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.72	0.282	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.72	0.214	1
PFOA/PFOS, Total	20.7		ng/l	1.72	0.203	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-07

Date Collected: 06/29/23 13:15

Client ID: MW-217

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	62		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	59	Q	62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	56	Q	57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	60		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	58	Q	59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	56	Q	62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	42		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	56		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	59		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		22-136

Project Name: GROSSINGS**Lab Number:** L2337731**Project Number:** 9313C**Report Date:** 07/14/23**SAMPLE RESULTS**

Lab ID: L2337731-07

Date Collected: 06/29/23 13:15

Client ID: MW-217

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:23

Analytical Date: 07/13/23 09:32

Analyst: AC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.72	0.500	1
Surrogate (Extracted Internal Standard)	% Recovery		Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49			10-112		

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-08

Date Collected: 06/29/23 16:15

Client ID: MW-206

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:24

Analytical Date: 07/12/23 02:54

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.18		ng/l	1.72	0.350	1
Perfluoropentanoic Acid (PFPeA)	1.39	J	ng/l	1.72	0.340	1
Perfluorobutanesulfonic Acid (PFBS)	0.597	J	ng/l	1.72	0.204	1
Perfluorohexanoic Acid (PFHxA)	1.78	F	ng/l	1.72	0.281	1
Perfluoroheptanoic Acid (PFHpA)	1.96		ng/l	1.72	0.193	1
Perfluorohexanesulfonic Acid (PFHxS)	0.741	J	ng/l	1.72	0.323	1
Perfluorooctanoic Acid (PFOA)	5.60		ng/l	1.72	0.202	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.72	1.14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.72	0.590	1
Perfluorononanoic Acid (PFNA)	0.693	JF	ng/l	1.72	0.268	1
Perfluorooctanesulfonic Acid (PFOS)	9.57		ng/l	1.72	0.432	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.72	0.261	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.72	1.04	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.72	0.556	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.72	0.223	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.72	0.841	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.72	0.498	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.72	0.690	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.72	0.319	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.72	0.281	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.72	0.213	1
PFOA/PFOS, Total	15.2		ng/l	1.72	0.202	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-08

Date Collected: 06/29/23 16:15

Client ID: MW-206

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		22-136

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-09

Date Collected: 06/29/23 17:50

Client ID: FB-20230629

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 07/06/23 16:24

Analytical Date: 07/12/23 03:10

Analyst: JW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.87	0.382	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.87	0.370	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.222	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.87	0.307	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.87	0.211	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.352	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.87	0.221	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.87	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.87	0.643	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.292	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.87	0.471	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.284	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.606	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.87	0.916	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.542	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.752	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.348	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1
PFOA/PFOS, Total	ND		ng/l	1.87	0.221	1

Project Name: GROSSINGS

Lab Number: L2337731

Project Number: 9313C

Report Date: 07/14/23

SAMPLE RESULTS

Lab ID: L2337731-09

Date Collected: 06/29/23 17:50

Client ID: FB-20230629

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		22-136

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID

Analytical Date: 07/07/23 21:11

Analyst: SG

Extraction Method: ALPHA 23528

Extraction Date: 07/06/23 16:20

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1800306-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/07/23 21:11
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 07/06/23 16:20

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1800306-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	95		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		22-136

Project Name: GROSSINGS
Project Number: 9313C

Lab Number: L2337731
Report Date: 07/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/11/23 23:11
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 07/06/23 16:20

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1800306-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	50		10-112

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 Batch: WG1800306-2								
Perfluorobutanoic Acid (PFBA)	95		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	97		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	87		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	95		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	96		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	98		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	92		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	101		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	93		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	94		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	87		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	92		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	94		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	96		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	92		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	99		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	100		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	111		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	104		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 Batch: WG1800306-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	109				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	124				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	100				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	89				22-136

Lab Control Sample Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 Batch: WG1800306-2								
Perfluorooctanesulfonamide (FOSA)	99		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47				10-112

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1800306-3 QC Sample: L2336530-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	37.0	37.1	70.2	89		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	141	37.1	188	127		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	3.64F	33	34.6	94		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	34.8	34.0	98		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	82.6	37.1	126	117		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	3.02F	35	33.6	87		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	43.6	37.1	81.6	102		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	5.81	33.9	42.4F	108		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	26.3	37.1	63.3	100		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	140	35.3	180	113		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.4	40.7	115		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	9.54	37.1	47.8	103		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	6.29	34.4	41.2	101		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	10.1	37.1	46.2	97		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	45.7	35.6	79.9	96		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	35.7	35.6	100		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.1	36.4	98		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	0.292JF	37.1	34.4	92		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.9	40.8	114		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	37.1	34.2F	92		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.1	34.3	92		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	37.1	34.8	94		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1800306-3 QC Sample: L2336530-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	37.1	42.8	115		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	37.1	39.4	106		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	246	Q			10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	262	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	424	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	121				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	81				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	63				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	88				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	68				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95				70-131

Project Name: GROSSINGS
Project Number: 9313C

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2337731
Report Date: 07/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1800306-4 QC Sample: L2337905-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	17.8	17.3	ng/l	3		30
Perfluoropentanoic Acid (PFPeA)	29.4	28.4	ng/l	3		30
Perfluorobutanesulfonic Acid (PFBS)	10.3	9.89	ng/l	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	18.9	17.8	ng/l	6		30
Perfluoropentanesulfonic Acid (PFPeS)	2.63	2.87	ng/l	9		30
Perfluoroheptanoic Acid (PFHpA)	13.2	12.8	ng/l	3		30
Perfluorohexanesulfonic Acid (PFHxS)	21.5	21.1	ng/l	2		30
Perfluorooctanoic Acid (PFOA)	37.4	35.5	ng/l	5		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.05J	1.12J	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	1.00J	1.14J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	36.5	35.2	ng/l	4		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: GROSSINGS

Project Number: 9313C

Lab Number: L2337731

Report Date: 07/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1800306-4 QC Sample: L2337905-02 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		77		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		95		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	172	Q	193	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		63		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	61		61		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		93		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	59	Q	62		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	147		176	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	47	Q	51	Q	59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	75		85		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	49	Q	51	Q	62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		104		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	35		45		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	54	Q	54	Q	55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		53		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	59		58		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	50		53		22-136

Project Name: GROSSINGS**Lab Number:** L2337731**Project Number:** 9313C**Report Date:** 07/14/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2337731-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-01D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-01E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-02D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-02E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-03D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-03E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-04A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-04B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-04C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-04D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-04E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2337731-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-05D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-05E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-06C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-06D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-06E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-07A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-07B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-07C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-07D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-07E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-08A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-08B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-08C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-08D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-08E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-09A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-09B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-09C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-09D	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-09E	Plastic 250ml unpreserved	B	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(28)
L2337731-10A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-10B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-10C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2337731-10D	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA's)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

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

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



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

Revision 20

Published Date: 6/16/2023 4:52:28 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>6/30/23</u>		ALPHA Job # <u>12337731</u>																																																																																																																																																																																																																												
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Client Information Client: <u>SEST</u> Address: <u>959 Rt 46</u> <u>Parsippany, NJ 07054</u> Phone: <u>973-808-9050</u> Fax: <u>959 85051-org</u> Email: <u>959 85051-org</u>				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☒ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																																																																													
Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:				ANALYSIS These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Please specify Metals or TAL. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="10">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> <th rowspan="2">Total Bottles</th> </tr> <tr> <th>Date</th> <th>Time</th> <th colspan="10"></th> </tr> </thead> <tbody> <tr> <td>37731-01</td> <td>NW-216 (Dup)</td> <td>6/29/23</td> <td>1135</td> <td>Water</td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>02</td> <td>NW-216</td> <td>6/29/23</td> <td>1130</td> <td>Water</td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>03</td> <td>NW-216</td> <td></td> <td>1240</td> <td>W</td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>04</td> <td>NW-214</td> <td></td> <td>1135</td> <td></td> <td>BTR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>05</td> <td>MW-203</td> <td></td> <td>1420</td> <td></td> <td>BTR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>06</td> <td>MW-207</td> <td></td> <td>1560</td> <td></td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>07</td> <td>MW-217</td> <td></td> <td>1315</td> <td></td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>08</td> <td>MW-200</td> <td></td> <td>1615</td> <td></td> <td>BTR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>09</td> <td>Field Blank FB-20230629</td> <td></td> <td>1750</td> <td></td> <td>RR</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>10</td> <td>TRIP Blank</td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>				ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	Total Bottles	Date	Time											37731-01	NW-216 (Dup)	6/29/23	1135	Water	RR														02	NW-216	6/29/23	1130	Water	RR														03	NW-216		1240	W	RR														04	NW-214		1135		BTR														05	MW-203		1420		BTR														06	MW-207		1560		RR														07	MW-217		1315		RR														08	MW-200		1615		BTR														09	Field Blank FB-20230629		1750		RR														10	TRIP Blank																	
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other				Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative																																																																																																																																																																																																																											
Relinquished By: <u>Ronnie M. Reppas</u> <u>Paul Maggella</u> <u>6/30/23 0120</u>				Date/Time: <u>6/29/23 19:19</u> <u>6/30/23 0120</u>		Received By: <u>Paul Maggella</u> <u>6/30/23 0120</u>		Date/Time: <u>6/30/23 0120</u> <u>6/30/23 0320</u>																																																																																																																																																																																																																											

Appendix D:
Soil Vapor Laboratory Analytical Data



ANALYTICAL REPORT

Lab Number:	L2337555
Client:	Soils Engineering Services, Inc. 959 Route 46E Parsippany, NJ 07054
ATTN:	Steven Gustems
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	93136
Report Date:	07/07/23

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

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



Project Name: GROSSINGERS

Project Number: 93136

Lab Number: L2337555

Report Date: 07/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2337555-01	SMPV-1	SOIL_VAPOR	LIBERTY, NY	06/29/23 10:56	06/29/23
L2337555-02	SMPV-2	SOIL_VAPOR	LIBERTY, NY	06/29/23 12:41	06/29/23
L2337555-03	SMPV-14	SOIL_VAPOR	LIBERTY, NY	06/29/23 13:35	06/29/23
L2337555-04	SMPV-13	SOIL_VAPOR	LIBERTY, NY	06/29/23 14:29	06/29/23
L2337555-05	SMPV-11	SOIL_VAPOR	LIBERTY, NY	06/29/23 15:11	06/29/23
L2337555-06	SMPV-12	SOIL_VAPOR	LIBERTY, NY	06/29/23 15:56	06/29/23
L2337555-07	SMPV-10	SOIL_VAPOR	LIBERTY, NY	06/29/23 16:40	06/29/23
L2337555-08	UNUSED CAN #2290	SOIL_VAPOR	LIBERTY, NY		06/29/23
L2337555-09	UNUSED CAN #593	SOIL_VAPOR	LIBERTY, NY		06/29/23

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Case Narrative

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

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

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

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

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

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

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 21, 2023. The canister certification results are provided as an addendum.

L2337555-04D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2337555-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 07/07/23

AIR

Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-01

Client ID: SMPV-1

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 10:56

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 00:12

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.491	0.200	--	2.43	0.989	--		1
Chloromethane	0.269	0.200	--	0.555	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	28.2	5.00	--	53.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.8	1.00	--	58.9	2.38	--		1
Trichlorofluoromethane	0.426	0.200	--	2.39	1.12	--		1
Isopropanol	1.12	0.500	--	2.75	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	2.83	0.500	--	8.58	1.52	--		1
Methylene chloride	1.22	0.500	--	4.24	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.38	0.500	--	4.07	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-01

Client ID: SMPV-1

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 10:56

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	0.997	0.500	--	3.59	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.30	0.500	--	6.78	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.214	0.200	--	0.754	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.82	0.200	--	9.01	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.396	0.200	--	1.36	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	6.81	0.500	--	27.9	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.01	0.200	--	7.57	0.754	--		1
2-Hexanone	0.341	0.200	--	1.40	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	7.31	0.200	--	49.6	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.749	0.200	--	3.25	0.869	--		1



Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23**SAMPLE RESULTS**

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Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.04	0.400	--	13.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.06	0.200	--	4.60	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.350	0.200	--	1.72	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	100		60-140



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-02

Client ID: SMPV-2

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 12:41

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 00:50

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.506	0.200	--	2.50	0.989	--		1
Chloromethane	0.212	0.200	--	0.438	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	37.0	5.00	--	69.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	40.7	1.00	--	96.7	2.38	--		1
Trichlorofluoromethane	4.04	0.200	--	22.7	1.12	--		1
Isopropanol	1.12	0.500	--	2.75	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	7.37	0.500	--	22.3	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.65	0.500	--	4.87	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-02

Client ID: SMPV-2

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 12:41

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.60	0.500	--	4.72	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	3.84	0.200	--	12.3	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.875	0.200	--	3.01	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.234	0.200	--	0.959	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	5.66	0.500	--	23.2	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.34	0.200	--	5.05	0.754	--		1
2-Hexanone	0.279	0.200	--	1.14	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.50	0.200	--	37.3	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.560	0.200	--	2.43	0.869	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-02

Client ID: SMPV-2

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 12:41

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.27	0.400	--	9.86	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.909	0.200	--	3.95	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.397	0.200	--	1.95	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	106		60-140



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-03

Client ID: SMPV-14

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 13:35

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 01:28

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.585	0.200	--	2.89	0.989	--		1
Chloromethane	0.290	0.200	--	0.599	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	51.1	5.00	--	96.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	49.0	1.00	--	116	2.38	--		1
Trichlorofluoromethane	10.9	0.200	--	61.3	1.12	--		1
Isopropanol	1.19	0.500	--	2.93	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	9.24	0.500	--	28.0	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.78	0.500	--	5.25	1.47	--		1
cis-1,2-Dichloroethene	0.304	0.200	--	1.21	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-03

Client ID: SMPV-14

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 13:35

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.27	0.500	--	3.75	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.575	0.200	--	3.14	1.09	--		1
Benzene	3.24	0.200	--	10.4	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.89	0.200	--	6.51	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.605	0.200	--	3.25	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.201	0.200	--	0.824	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	4.59	0.500	--	18.8	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.21	0.200	--	4.56	0.754	--		1
2-Hexanone	0.239	0.200	--	0.979	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	3.75	0.200	--	25.4	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.747	0.200	--	3.24	0.869	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-03

Client ID: SMPV-14

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 13:35

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.82	0.400	--	16.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.43	0.200	--	6.21	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.494	0.200	--	2.43	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.205	0.200	--	1.23	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	108		60-140



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-04

Client ID: SMPV-13

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 14:29

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 02:06

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	230	0.200	--	1140	0.989	--	E	1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	51.4	5.00	--	96.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	48.2	1.00	--	114	2.38	--		1
Trichlorofluoromethane	51.4	0.200	--	289	1.12	--		1
Isopropanol	0.984	0.500	--	2.42	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	10.2	0.500	--	30.9	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.87	0.500	--	5.52	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-04

Client ID: SMPV-13

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 14:29

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.228	0.200	--	1.11	0.977	--		1
Tetrahydrofuran	0.875	0.500	--	2.58	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.80	0.200	--	8.95	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.47	0.200	--	5.06	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	3.17	0.500	--	13.0	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.861	0.200	--	3.24	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	2.57	0.200	--	17.4	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.295	0.200	--	1.28	0.869	--		1



Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-04

Date Collected: 06/29/23 14:29

Client ID: SMPV-13

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.28	0.400	--	5.56	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.536	0.200	--	2.33	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.373	0.200	--	1.83	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.248	0.200	--	1.49	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	110		60-140



Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-04 D

Client ID: SMPV-13

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 14:29

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 07:50

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	248	2.00	--	1230	9.89	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-05 D

Client ID: SMPV-11

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:11

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 02:41

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.48	0.833	--	7.32	4.12	--		4.167
Chloromethane	ND	0.833	--	ND	1.72	--		4.167
Freon-114	ND	0.833	--	ND	5.82	--		4.167
Vinyl chloride	ND	0.833	--	ND	2.13	--		4.167
1,3-Butadiene	ND	0.833	--	ND	1.84	--		4.167
Bromomethane	ND	0.833	--	ND	3.23	--		4.167
Chloroethane	ND	0.833	--	ND	2.20	--		4.167
Ethanol	38.0	20.8	--	71.6	39.2	--		4.167
Vinyl bromide	ND	0.833	--	ND	3.64	--		4.167
Acetone	37.4	4.17	--	88.8	9.91	--		4.167
Trichlorofluoromethane	129	0.833	--	725	4.68	--		4.167
Isopropanol	ND	2.08	--	ND	5.11	--		4.167
1,1-Dichloroethene	ND	0.833	--	ND	3.30	--		4.167
Tertiary butyl Alcohol	9.63	2.08	--	29.2	6.31	--		4.167
Methylene chloride	ND	2.08	--	ND	7.23	--		4.167
3-Chloropropene	ND	0.833	--	ND	2.61	--		4.167
Carbon disulfide	ND	0.833	--	ND	2.59	--		4.167
Freon-113	ND	0.833	--	ND	6.38	--		4.167
trans-1,2-Dichloroethene	ND	0.833	--	ND	3.30	--		4.167
1,1-Dichloroethane	ND	0.833	--	ND	3.37	--		4.167
Methyl tert butyl ether	ND	0.833	--	ND	3.00	--		4.167
2-Butanone	ND	2.08	--	ND	6.13	--		4.167
cis-1,2-Dichloroethene	ND	0.833	--	ND	3.30	--		4.167



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-05 D

Client ID: SMPV-11

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:11

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.08	--	ND	7.50	--		4.167
Chloroform	ND	0.833	--	ND	4.07	--		4.167
Tetrahydrofuran	ND	2.08	--	ND	6.13	--		4.167
1,2-Dichloroethane	ND	0.833	--	ND	3.37	--		4.167
n-Hexane	ND	0.833	--	ND	2.94	--		4.167
1,1,1-Trichloroethane	ND	0.833	--	ND	4.54	--		4.167
Benzene	1.96	0.833	--	6.26	2.66	--		4.167
Carbon tetrachloride	ND	0.833	--	ND	5.24	--		4.167
Cyclohexane	3.15	0.833	--	10.8	2.87	--		4.167
1,2-Dichloropropane	ND	0.833	--	ND	3.85	--		4.167
Bromodichloromethane	ND	0.833	--	ND	5.58	--		4.167
1,4-Dioxane	ND	0.833	--	ND	3.00	--		4.167
Trichloroethene	ND	0.833	--	ND	4.48	--		4.167
2,2,4-Trimethylpentane	2.28	0.833	--	10.6	3.89	--		4.167
Heptane	ND	0.833	--	ND	3.41	--		4.167
cis-1,3-Dichloropropene	ND	0.833	--	ND	3.78	--		4.167
4-Methyl-2-pentanone	ND	2.08	--	ND	8.52	--		4.167
trans-1,3-Dichloropropene	ND	0.833	--	ND	3.78	--		4.167
1,1,2-Trichloroethane	ND	0.833	--	ND	4.54	--		4.167
Toluene	1.02	0.833	--	3.84	3.14	--		4.167
2-Hexanone	ND	0.833	--	ND	3.41	--		4.167
Dibromochloromethane	ND	0.833	--	ND	7.10	--		4.167
1,2-Dibromoethane	ND	0.833	--	ND	6.40	--		4.167
Tetrachloroethene	2.71	0.833	--	18.4	5.65	--		4.167
Chlorobenzene	ND	0.833	--	ND	3.84	--		4.167
Ethylbenzene	ND	0.833	--	ND	3.62	--		4.167



Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-05 D

Client ID: SMPV-11

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:11

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.67	--	ND	7.25	--		4.167
Bromoform	ND	0.833	--	ND	8.61	--		4.167
Styrene	ND	0.833	--	ND	3.55	--		4.167
1,1,2,2-Tetrachloroethane	ND	0.833	--	ND	5.72	--		4.167
o-Xylene	ND	0.833	--	ND	3.62	--		4.167
4-Ethyltoluene	ND	0.833	--	ND	4.10	--		4.167
1,3,5-Trimethylbenzene	ND	0.833	--	ND	4.10	--		4.167
1,2,4-Trimethylbenzene	ND	0.833	--	ND	4.10	--		4.167
Benzyl chloride	ND	0.833	--	ND	4.31	--		4.167
1,3-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,4-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,2-Dichlorobenzene	ND	0.833	--	ND	5.01	--		4.167
1,2,4-Trichlorobenzene	ND	0.833	--	ND	6.18	--		4.167
Hexachlorobutadiene	ND	0.833	--	ND	8.89	--		4.167

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	106		60-140



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-06

Client ID: SMPV-12

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:56

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 03:19

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.723	0.200	--	3.58	0.989	--		1
Chloromethane	0.206	0.200	--	0.425	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	38.0	5.00	--	71.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	41.5	1.00	--	98.6	2.38	--		1
Trichlorofluoromethane	3.93	0.200	--	22.1	1.12	--		1
Isopropanol	0.842	0.500	--	2.07	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	8.38	0.500	--	25.4	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.08	0.500	--	6.13	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-06

Client ID: SMPV-12

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:56

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.35	0.200	--	4.31	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.60	0.200	--	5.51	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.452	0.200	--	2.11	0.934	--		1
Heptane	0.229	0.200	--	0.938	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.51	0.500	--	6.19	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.812	0.200	--	3.06	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.36	0.200	--	9.22	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-06

Client ID: SMPV-12

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 15:56

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.878	0.400	--	3.81	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.350	0.200	--	1.52	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.344	0.200	--	1.69	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.206	0.200	--	1.24	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	109		60-140



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-07

Client ID: SMPV-10

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 16:40

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 07/07/23 03:57

Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.13	0.200	--	5.59	0.989	--		1
Chloromethane	0.295	0.200	--	0.609	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	43.7	5.00	--	82.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	40.3	1.00	--	95.7	2.38	--		1
Trichlorofluoromethane	5.41	0.200	--	30.4	1.12	--		1
Isopropanol	0.772	0.500	--	1.90	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	8.52	0.500	--	25.8	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.74	0.500	--	5.13	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: GROSSINGERS**Project Number:** 93136**Lab Number:** L2337555**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-07

Client ID: SMPV-10

Sample Location: LIBERTY, NY

Date Collected: 06/29/23 16:40

Date Received: 06/29/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.00	0.200	--	3.19	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.10	0.200	--	3.79	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.37	0.500	--	5.61	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.589	0.200	--	2.22	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.08	0.200	--	7.32	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.213	0.200	--	0.925	0.869	--		1



Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23**SAMPLE RESULTS**

Lab ID: L2337555-07

Date Collected: 06/29/23 16:40

Client ID: SMPV-10

Date Received: 06/29/23

Sample Location: LIBERTY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.909	0.400	--	3.95	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.378	0.200	--	1.64	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.290	0.200	--	1.43	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	110		60-140



Project Name: GROSSINGERS

Lab Number: L2337555

Project Number: 93136

Report Date: 07/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/06/23 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1800265-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: GROSSINGERS

Lab Number: L2337555

Project Number: 93136

Report Date: 07/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/06/23 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1800265-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: GROSSINGERS

Lab Number: L2337555

Project Number: 93136

Report Date: 07/07/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/06/23 14:25

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1800265-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1800265-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	87		-		70-130	-		
Freon-114	106		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	91		-		70-130	-		
Ethanol	100		-		40-160	-		
Vinyl bromide	86		-		70-130	-		
Acetone	95		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	73		-		40-160	-		
1,1-Dichloroethene	100		-		70-130	-		
Tertiary butyl Alcohol	90		-		70-130	-		
Methylene chloride	90		-		70-130	-		
3-Chloropropene	88		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	86		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	75		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1800265-3								
Ethyl Acetate	104		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
1,2-Dichloroethane	80		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	82		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	92		-		70-130	-		
Cyclohexane	105		-		70-130	-		
1,2-Dichloropropane	94		-		70-130	-		
Bromodichloromethane	108		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	108		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	92		-		70-130	-		
4-Methyl-2-pentanone	102		-		70-130	-		
trans-1,3-Dichloropropene	86		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	88		-		70-130	-		
2-Hexanone	95		-		70-130	-		
Dibromochloromethane	102		-		70-130	-		
1,2-Dibromoethane	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 93136

Lab Number: L2337555

Report Date: 07/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1800265-3								
Tetrachloroethene	81		-		70-130	-		
Chlorobenzene	90		-		70-130	-		
Ethylbenzene	87		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
Bromoform	109		-		70-130	-		
Styrene	88		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	89		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	95		-		70-130	-		
1,2,4-Trimethylbenzene	89		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	88		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		
1,2-Dichlorobenzene	88		-		70-130	-		
1,2,4-Trichlorobenzene	81		-		70-130	-		
Hexachlorobutadiene	77		-		70-130	-		

Project Name: GROSSINGERS

Serial_No:07072315:07
Lab Number: L2337555

Project Number: 93136

Report Date: 07/07/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2337555-01	SMPV-1	01290	Flow 1	06/21/23	428034		-	-	-	Pass	160	153	4
L2337555-01	SMPV-1	1994	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-5.9	-	-	-	-
L2337555-02	SMPV-2	0494	Flow 1	06/21/23	428034		-	-	-	Pass	161	160	1
L2337555-02	SMPV-2	3622	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-6.4	-	-	-	-
L2337555-03	SMPV-14	0031	Flow 1	06/21/23	428034		-	-	-	Pass	160	128	22
L2337555-03	SMPV-14	3357	6.0L Can	06/21/23	428034	L2332486-05	Pass	-30.1	-6.4	-	-	-	-
L2337555-04	SMPV-13	01521	Flow 2	06/21/23	428034		-	-	-	Pass	160	158	1
L2337555-04	SMPV-13	2271	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-6.4	-	-	-	-
L2337555-05	SMPV-11	0173	Flow 2	06/21/23	428034		-	-	-	Pass	161	157	3
L2337555-05	SMPV-11	3610	6.0L Can	06/21/23	428034	L2332486-05	Pass	-30.1	-5.9	-	-	-	-
L2337555-06	SMPV-12	01604	Flow 2	06/21/23	428034		-	-	-	Pass	160	160	0
L2337555-06	SMPV-12	2805	6.0L Can	06/21/23	428034	L2332486-03	Pass	-30.1	-5.6	-	-	-	-
L2337555-07	SMPV-10	0941	Flow 1	06/21/23	428034		-	-	-	Pass	160	158	1
L2337555-07	SMPV-10	1693	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-6.2	-	-	-	-
L2337555-08	UNUSED CAN #2290	02262	Flow 1	06/21/23	428034		-	-	-	Pass	160	157	2

Project Name: GROSSINGERS

Project Number: 93136

Serial_No:07072315:07
Lab Number: L2337555

Report Date: 07/07/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2337555-08	UNUSED CAN #2290	2290	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-30.2	-	-	-	-
L2337555-09	UNUSED CAN #593	0366	Flow 1	06/21/23	428034		-	-	-	Pass	160	159	1
L2337555-09	UNUSED CAN #593	593	6.0L Can	06/21/23	428034	L2332486-04	Pass	-30.1	-22.1	-	-	-	-

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/13/23 17:15
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-03

Date Collected: 06/08/23 18:00

Client ID: CAN 3923 SHELF 46

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/13/23 17:15
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-03
Client ID: CAN 3923 SHELF 46
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-03

Date Collected: 06/08/23 18:00

Client ID: CAN 3923 SHELF 46

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-04
Client ID: CAN 3123 SHELF 47
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/13/23 17:54
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-04
Client ID: CAN 3123 SHELF 47
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-04
Client ID: CAN 3123 SHELF 47
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-04

Date Collected: 06/08/23 18:00

Client ID: CAN 3123 SHELF 47

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-04

Date Collected: 06/08/23 18:00

Client ID: CAN 3123 SHELF 47

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-04
Client ID: CAN 3123 SHELF 47
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/13/23 17:54
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-04
Client ID: CAN 3123 SHELF 47
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-04

Date Collected: 06/08/23 18:00

Client ID: CAN 3123 SHELF 47

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 06/13/23 18:33
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-05

Date Collected: 06/08/23 18:00

Client ID: CAN 3462 SHELF 48

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 06/13/23 18:33
Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



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

Lab Number: L2332486
Report Date: 07/07/23

Air Canister Certification Results

Lab ID: L2332486-05
Client ID: CAN 3462 SHELF 48
Sample Location:

Date Collected: 06/08/23 18:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2332486**Project Number:** CANISTER QC BAT**Report Date:** 07/07/23**Air Canister Certification Results**

Lab ID: L2332486-05

Date Collected: 06/08/23 18:00

Client ID: CAN 3462 SHELF 48

Date Received: 06/09/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	95		60-140

Project Name: GROSSINGERS
Project Number: 93136

Serial_No:07072315:07
Lab Number: L2337555
Report Date: 07/07/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2337555-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2337555-08A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()
L2337555-09A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()

Project Name: GROSSINGERS**Lab Number:** L2337555**Project Number:** 93136**Report Date:** 07/07/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: GROSSINGERS
Project Number: 93136

Lab Number: L2337555
Report Date: 07/07/23

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 20

Department: **Quality Assurance**

Published Date: 6/16/2023 4:52:28 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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



CHAIN OF CUSTODY

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

Client Information

Client: **SESI Consulting Eng.**
Address: **959 US-46 Floor 3**
Parsippany, NJ 07054
Phone: **973-808-9050**
Fax:

Email: **ssg@sesi.org**

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

AIR ANALYSIS

PAGE _____ OF _____

Date Rec'd in Lab: **6/30/23**

ALPHA Job #: **L2337SSS**

Project Information

Project Name: **Grossingers**
Project Location: **Liberty, NY**
Project #: **9313C**
Project Manager: **SG/JCS**
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: **7-6-2023** time:

Report Information - Data Deliverables

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

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

☐ TO-15
☐ TO-15 SIM
☐ APH
☐ Fixed Gases
☐ Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
37555-01	SMPV-1	6-29	10:23	10:56	-28	-4.98	SV	TD	GL	19401290	✓							
02	SMPV-2	6-29	12:13	12:41	-27.95	-4.91	SV	TD	GL	30220494	✓							
03	SMPV-14	6-29	12:57	13:35	-28.83	-4.93	SV	TD	GL	33570031	✓							
04	SMPV-13	6-29	13:55	14:29	-28.71	-4.91	SV	TD	GL	22710152	✓							
05	SMPV-11	8-29	14:42	15:11	-28.46	-4.86	SV	TD	GL	36100173	✓							
06	SMPV-12	6-29	15:27	15:56	-28	-4.75	SV	TD	GL	280501604	✓							
07	SMPV-10	6-29	16:08	16:40	-28.6	-4.85	SV	TD	GL	16930941	✓							

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

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

Appendix E:
NYSDEC IC & EC Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. **C353015** **Site Details** **Box 1**

Site Name **Former Grossingers Resort**

Site Address: Clements and Grossinger Roads Zip Code: 12754
City/Town: Liberty
County: Sullivan
Site Acreage: 18.170

Reporting Period: April 30, 2022 to April 30, 2023

	YES	NO
1. Is the information above correct?	☒	☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?	☐	☒
--	--------------------------	-------------------------------------

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C353015**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**30-1-1.1 (portion of)**

Sullivan Resorts, LLC

Ground Water Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The remedy is conditional track 1. The site meets unrestricted SCOs for soil. Residual VOCs and PFAS in groundwater must be addressed by a Site Management Plan.

The use of groundwater underlying the property is prohibited without treatment rendering it safe for intended use.

Evaluation of vapor intrusion with mitigation as required prior to the construction of new buildings on site.

Monitoring of on-site groundwater.

Box 4**Description of Engineering Controls**ParcelEngineering Control**30-1-1.1 (portion of)**

Monitoring Wells

Groundwater will be monitored until residual concentrations of VOCs and PFAS meet Department standards. If VOCs and PFAS do not naturally attenuate, groundwater treatment will be required.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. C353015**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Fuad Dahan at SESI Consulting Engineers,
print name print business address

am certifying as a Qualified Environmental Professional for the Sullivan Resorts LLC
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date