

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
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March 22, 2024

Village of Manchester
Michael Buttaccio
P.O. Box 188
Manchester, New York 14504

Re: Site Management
Periodic Review Report
Frederick Property
Site N°: B00131
Manchester (T), Ontario (C)

Dear Mr. Buttaccio:

The New York State Department of Environmental Conservation (Department) in conjunction with the New York State Department of Health (NYSDOH) have completed a review of your Periodic Review Report (PRR) and IC/EC Certification for following period: July 26, 2022, through July 26, 2023. The Department conditionally approves the PRR with the following modifications and clarifications.

1. The Department understands that the cover system will be restored to the requirements set by the current Site Management Plan (SMP). Restoration of the cover system will include re-grading and if necessary, importing soil to meet the 24-inches of clean fill material/topsoil requirement. Clean soil purchased in a bag from commercial stores may be used. Fill material not purchased in bags will need to be sampled. See the Site Management Plan Appendix E E-10. The proposed soil/fill material will be sampled in accordance with DER-10 Section 5.4 Table 5.4(e)10. The proposed imported soil/fill material will be analyzed for the full suite of analytical parameters. The request to import form along with the laboratory data package must be submitted the project manager for review and approval prior to import to the Site. The soil/fill material must meet restricted residential soil cleanup objectives for all constituents listed in DER-10 Appendix 5 as well as PFAS. Please see the Department's current guidance for PFAS values. The final cover must meet the 24-inch requirement and the areas with dead vegetation and bare soil will be re-seeded.
2. The request to discontinue the groundwater monitoring/sampling for MW-1, MW-3, and MW-5 is denied. Sampling a single well does not supply enough data that represents the whole site and as such requires MW-1, MW-3, and MW-5 to continue to be sampled along with MW-A.



Department of
Environmental
Conservation

3. The PRR recommends modifying the frequency of PRR submittal to every 2 years. The Department suggests that the PRR submittal frequency is every 3 years; therefore, the next PRR will be due to the Department in 2026.

Your next PRR is due on August 25, 2026. You will receive a courtesy reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions or concerns regarding this letter or need further assistance with the Site, please feel free to contact me at (585) 226-5349 or via e-mail Joshua.Ramsey@dec.ny.gov.

Sincerely,



Joshua J. Ramsey
Project Manager

ec:

Nate Simon (DAY)
Charles Hampton (DAY)
Ray Kampff (DAY)
Justin Deming (NYSDOH)
Steven Berninger (NYSDOH)
David Pratt (NYSDEC)
Charlotte Theobald (NYSDEC)

PERIODIC REVIEW REPORT
REPORTING PERIOD: JULY 26, 2022 THROUGH JULY 26, 2023

147 STATE STREET
MANCHESTER, NEW YORK
NYSDEC SITE NO. B00131

This Periodic Review Report (PRR) was prepared in accordance with provisions outlined in the document *DER-10 Technical Guidance for Site Investigation and Remediation* (DER-10). This is the fourth PRR submitted for New York State Department of Environmental Conservation (NYSDEC) Site No. B00131 located at 147 State Street, Village of Manchester, Ontario County, New York (the Site). This document presents a summary of site characterization and remedial activities conducted at the Site pursuant to obtaining a Certificate of Completion issued on March 26, 2019, and the site management activities completed in the period between July 26, 2022 and July 26, 2023 (the reporting period). The site management requirements are outlined in the document titled *Frederick Property, Ontario County, Manchester, New York, Site Management Plan, NYSDEC Site Number: B00131*, dated February 2019 (the SMP).

This report includes the following elements:

- Site background information;
- identification of the remedial goals established for the Site;
- a description of the ICs and ECs for the Site;
- a review of monitoring protocols and results;
- a description of site monitoring activities, including a site inspection;
- an evaluation of the remedy performance, effectiveness and protectiveness; and,
- conclusions and recommendations based on the work completed to date.

I. Executive Summary

A. Site Conditions, Contamination and Remedial History

- The Site consists of a 0.48-acre parcel of currently undeveloped land that previously contained a gasoline station/vehicle repair facility (refer to the Project Locus Map included as Figure 1).
- The Village of Manchester obtained ownership of the Frederick Property in 1999, and subsequently entered into a State Assistance Contract (SAC) with the NYSDEC to remediate the Site.
- Between 2000 and 2003, various studies were completed to characterize environmental conditions at the Site and to identify potential remedial actions. The studies completed and the findings/conclusions are summarized in a Site Investigation/Remedial Analysis Report (SI/RAR) prepared by Sniedze Associates of

Canandaigua, NY dated September 2003 (with an addendum dated December 19, 2003). In conjunction with the above studies, an Interim Remedial Measure (IRM) was conducted in 2000 and 2001 to remove the USTs and petroleum-impacted soil adjacent to these tanks.

- The Site was remediated in accordance with the provisions of a 2004 Record of Decision (ROD), issued by the NYSDEC, in consultation with the New York State Department of Health (NYSDOH). The ROD included Remedial Action Objectives for public health protection and environmental protection pertaining to Site related soil and groundwater. The ROD also specified the selected remedy for the Site, as Track 4 Restricted (Residential) Use. See Section II.B of this PRR for a summary of the remedial actions completed under the ROD.
- Day Environmental, Inc. (DAY) prepared the SMP for the Site on behalf of the Village of Manchester, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented at the Site beginning on March 26, 2019.
- A certificate of completion (COC), documenting completion of the remedial program, was issued for NYSDEC Site #B00131 on March 26, 2019. The COC identified ongoing requirements for the Site, including compliance with the SMP, periodic reporting through PRRs, and periodic certification of the Engineering Controls (EC) and Institutional Controls (IC) that are required at the Site.
- Following the receipt and review of the initial PRR for the Site (i.e., reporting period between March 26, 2019 and July 26, 2020) the NYSDEC issued comments which included a reduction in scope of the groundwater monitoring program (refer to details in Section II).
- Following the receipt and review of the second PRR for the Site (i.e., reporting period between July 26, 2020 and July 26, 2021) the NYSDEC issued comments which included a further reduction in scope of the groundwater monitoring program (refer to details in Section II).

B. Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued operation and monitoring of the EC, consisting of the site-wide cover system. Monitoring data from the work completed to date shows that the remedial program is currently meeting, and has the ability to achieve, the remedial objectives for the Site.

C. Compliance

No areas of non-compliance with the SMP were identified during the reporting period. As such, no steps are currently deemed necessary to correct areas of non-compliance.

D. Recommendations

1. An area of the muddy ruts and tire tracks was observed on June 27, 2023 (i.e., located along the western edge of the Site). These ruts did not appear to compromise the site cover, but it is recommended that these ruts be leveled to match the surrounding grade, and re-seeded with grass seed (as necessary) to prevent future erosion.
2. It is recommended that groundwater sampling be discontinued in overburden monitoring wells MW-1, MW-3 and MW-5 and that only overburden monitoring well MW-A be sampled/tested during the next groundwater sampling event (scheduled for or around June 27, 2025). Further, it is recommended that the next groundwater sampling event be conducted for the purpose of demonstrating that the Site has met the requirements for site closeout as outlined in Section 6.5 of NYSDEC DER-10. As such, it is recommended that data validation be conducted on the test results for the next groundwater sampling event and that a data usability summary report (DUSR) be prepared to document the data validation. A data package that is compliant with NYSDEC Category B Analytical Services Protocol (ASP) should be requested from the analytical laboratory for data validation.
3. It is recommended that the frequency of future PRRs be modified from the schedule identified in the SMP. Specifically, it is recommended that the next PRR cover a two-year reporting period starting July 26, 2023 and extending through July 26, 2025. This report would include deliverables for the Site-wide inspections to be completed on or around June 27, 2024, June 27, 2025, and the groundwater sampling/testing event to be conducted on or around June 27, 2025.
4. The requirements for site closure have not been achieved. As such, it is recommended that site management continue. However, should the test results for groundwater samples collected during the next groundwater sampling/testing event indicate that the concentrations of petroleum-related VOCs and SVOCs have decreased to levels below NYSDEC groundwater standards or have stabilized compared to the July 2023 results, it is recommended that site closeout be initiated.

II. Site Overview

A. Site Location, Site Features and Nature and Extent of Contamination

The Site is located in the Village of Manchester, Ontario County, New York and it is identified as Township VM 031.20, Block 1 and Lot 4 on the Village of Manchester Tax Map. The Site is an approximately 0.48-acre area and that is bound by State Street to the north, a Niagara Mohawk Power Corporation Utility Right-of-Way (ROW) to the south, residential properties to the east, and a residential property to the west. A Property Survey Map of the Site is included in Attachment A of this document.

The properties adjoining the Site, and in the neighborhood surrounding the Site, include industrial, commercial and residential properties. The properties immediately south of the Site include a utility ROW with industrial property beyond; the properties immediately north of the Site include commercial and residential properties; the properties immediately east of the Site include residential properties; and the properties to the west of the Site include residential properties.

The Site is currently vacant and covered by lawn-type vegetation, which is periodically maintained by the Village of Manchester. The Site previously contained a gasoline station/vehicle repair facility.

A Site Investigation (SI) was performed to characterize the nature and extent of contamination at the Site. The results of this study are described in the following report:

- *Site Investigation/Remedial Alternatives Report, Frederick Property Environmental Restoration Project, 147 State Street, NYSDEC Site B00131-8, Manchester, New York* dated September 2003 prepared by Sniedze Associates of Canandaigua, NY.

The September 2003 SI identified the following conditions at the Site, prior to remediation:

- Impacts to subsurface soil from petroleum related volatile organic compounds (VOC) (i.e., 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and mixed xylenes);
- Impacts to bedrock groundwater from petroleum related VOC (i.e., benzene, ethylbenzene, isopropylbenzene, toluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and mixed xylenes), petroleum related semi-volatile organic compounds (SVOC) (i.e., 4-methylphenol and naphthalene) and chlorinated VOC (i.e., tetrachloroethene and breakdown products trichloroethene and 1,2-dichloroethene); and
- Impacts to overburden groundwater from petroleum related SVOC (i.e., 4-methylphenol) and bis(2-ethylhexyl)phthalate.

B. Chronology

A chronology of remedial actions performed at the Site is presented below.

- The Village of Manchester obtained ownership of the Frederick Property in 1999, and subsequently entered into the ERP administered by the NYSDEC to evaluate and remediate the Site, as necessary.
- The Site was remediated in accordance with the provisions of a 2004 Record of Decision (ROD), issued by the NYSDEC, in consultation with the NYSDOH. The ROD included Remedial Action Objectives for protection of public health and protection of the environment due to site-related soil and groundwater impacts. The ROD also specified the selected remedy for the Site, as Track 4 Restricted (Residential) Use. Elements of the Remedy included:
 - Demolition of the building and the removal of the floor drainage piping, in-ground hydraulic lift units, and environmentally impacted soil;
 - removal of the dry well and environmentally impacted soil;
 - removal of soil containing concentrations of constituents that exceeded applicable Standards, Criteria, and Guidance (SCGs) to preclude adverse impacts

[i.e., generally to achieve a Restricted Residential Use Soil Cleanup Objective (SCO)];

- development of a SMP describing monitoring to document the effectiveness of the remediation and presenting procedures to address environmental impacts that could be encountered during future redevelopment or maintenance of the Site;
 - annual certification, prepared and submitted by a professional engineer or environmental professional, which documents that the institutional and engineering controls put in place are unchanged from the previous certification and nothing has occurred that will impair the ability of the control to protect public health or the environment or constitute a violation or failure to comply with any operation and maintenance or site management plan; and
 - implementation of institutional controls to restrict the use of groundwater and prevent vapor intrusion into buildings constructed on the Site in the future.
-
- In 2005, the building was demolished and removed from the Site although some features remained including the building foundation, concrete slabs for the building and the pump island, the dry well and associated piping. In 2006 and 2007, the concrete pads, hydraulic lift system and dry well were removed. In conjunction with this work, contaminated soil was removed and replaced with imported fill material.
 - Following the removal of structures associated with former operations conducted at the Site (e.g., USTs, in-ground hydraulic lifts, a dry well, concrete pads and footers) and contaminated soil, 'clean' backfill was placed and compacted in the resulting excavations. Subsequently, a minimum of three inches of topsoil was reportedly placed above the backfill and grass seed, fertilizer and mulch were added.
 - DAY prepared a SMP for the Site on behalf of the Village of Manchester, dated February 2019, and this document was approved by the NYSDEC. The site management requirements outlined in Section 6.3(b) of DER-10, and the SMP were implemented at the Site beginning on March 29, 2019. The SMP includes an Institutional and Engineering Control Plan that identifies use restrictions and engineering controls for the site, a Monitoring Plan to assess the performance and effectiveness of the Remedy, and details the steps and media-specific requirements necessary to ensure that the institutional and/or engineering controls remain in place and effective.
 - A COC was issued for NYSDEC Site #B00131 on March 29, 2019, documenting completion of the remedial program. The COC identified ongoing requirements for the Site, including compliance with the SMP, periodic reporting through PRRs, and periodic certification of the Engineering Controls (EC) and Institutional Controls (IC) that are required at the Site.
 - Following the receipt and review of the initial PRR for the Site (i.e., reporting period between March 26, 2019 and July 26, 2020) the NYSDEC issued comments which included a reduction in scope of the groundwater monitoring program. Specifically, the NYSDEC comments stated that, "*wells MW-2, MW-4, MW-6, RW-2, and RW-3 have not had VOC or SVOC exceedances since at least 2007. As such, these wells may be eliminated from the groundwater monitoring program at this time. Should future groundwater data suggest these wells may be impacted, the Departments may*

request they be sampled. Monitoring wells MW-1, MW-3, MW-5, MW-A, and RW-1 will continue to be monitored annually. MW-3, MW-5, and RW-1 each had exceedances of SVOCs in groundwater from the July 2020 monitoring event. As such, SVOCs will continue to be monitored annually until these compounds are below groundwater standards or guidance values for a period of time, at which time another request to discontinue sampling for SVOCs may be made.”

- Following the receipt and review of the second PRR for the Site (i.e., reporting period between July 26, 2020 and July 26, 2021) the NYSDEC issued comments which included a reduction in scope of the groundwater monitoring program. Specifically, the NYSDEC comments stated that, “(monitoring wells) MW-1, MW-3, MW-5 and MW-A will continue to be monitored; however, based on the data, the wells may be monitored biennially and sampled as discussed in the SMP. In addition, RW-1 may be eliminated from the groundwater monitoring program since limited analytes have been detected since at least 2017”.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

As presented in the ROD, the cleanup goals for the Site are to prevent ingestion/direct contact with contaminated soil and groundwater, prevent exposure to onsite groundwater, prevent exposure to contaminants volatilizing from subsurface locations, prevent migration of contaminants and, to the extent practicable, restoration of the groundwater to pre-disposal/pre-release conditions. Generally, remedial processes are considered complete when effectiveness 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 6.5 of NYSDEC DER-10.

The Site remedy included:

- the placement, and maintenance, of a site-wide cover system (i.e., soil cover over exterior locations) to prevent direct contact with impacted materials (i.e., surface soil, subsurface soil/fill, etc.),
- institutional controls to prevent exposure to onsite groundwater.

The effectiveness of this remedy is evaluated by the completion of annual inspections of the cover system, and post-remediation groundwater sampling.

- On June 27, 2023, a DAY representative completed the annual inspection of the site-wide cover system. A copy of the site-wide inspection form completed during the June 27, 2023 inspection is included in Attachment B. Photographs, taken on June 27, 2023 illustrating the condition of the site cover on that date, are also included in Attachment B.
- The results of the groundwater monitoring completed at the Site are discussed in Section V of this PRR.

IV. IC/EC Compliance Report

A. IC/EC Compliance Report

1. A description of each control, its objective, and how performance of the control is evaluated is provided below.

- Groundwater Use Restriction: restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH). The effectiveness of this control is evaluated based upon monitoring of groundwater usage at the Site (or lack thereof).
- Land use Restriction: allows the use and development of the controlled property for restricted residential, commercial or industrial uses as defined by 6 NYCRR Part 375-1.8(g), although land use is subject to local zoning laws. The effectiveness of this control is evaluated based upon monitoring of land usage at the Site.
- Site Management Plan: The objective of the SMP is to manage remaining contamination present at the Site that is above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, and an excavation work plan (i.e., included as Appendix E of the SMP). The effectiveness of the controls outlined above is evaluated through monitoring and periodic certification. Controls on the Site include:
 - Maintenance of a site-wide cover system to provide a barrier above soil containing concentrations that exceed the Unrestricted Use SCOs. The cover system consists of soil and vegetative cover at the ground surface;
 - Implementation of specific requirements outlined in the SMP, including the provisions of the IC/EC Plan (i.e., Excavation Work Plan and Soil Vapor Intrusion Evaluation) and Site Monitoring Plan, to assure the provisions described in these documents are followed.

2. Status:

Each control is fully in place, is being adhered to, and appears to be effective as of the date of this report.

During the annual inspection of the site-wide cover system that occurred on June 27, 2023 an area of muddy ruts and tire tracks was observed, located along the western edge of the Site, and apparently the result of heavy vehicles that drove across this portion of the Site from State Street to the adjacent property to the west. A newly-constructed swimming pool was observed on the adjacent property to the west, located to the south of the residence, and it is suspected that the vehicular traffic was associated with construction of the swimming pool. The ruts observed on June 27, 2023 were less than 0.5 feet deep, and thus it is concluded that the cover system at the Site was not breached.

3. Corrective Measures:

The area of the muddy ruts and tire tracks observed on June 27, 2023 should be leveled to match the surrounding grade, and re-seeded with grass seed (as necessary) to prevent future erosion.

4. Conclusions and Recommendations for Changes:

The controls are being effectively implemented as of the date of this report, and no changes are deemed necessary at this time.

B. IC/EC Certification

Certification Statement and forms are included as Attachment C to this report.

V. Monitoring Plan Compliance Report

A. Components

- Site-Wide Inspections: annual inspections are required to observe and document the condition of the cover system installed at the Site. Site-wide inspections are also required after all severe weather events that have the potential to affect ECs.
- Post Remediation Media Monitoring and Sampling: Groundwater samples are collected/tested on a routine basis to assess the performance of the remedy.

B. Summary of the Monitoring Completed

- Site-Wide Inspections: On June 27, 2023, a DAY representative completed the annual inspection of the site-wide cover system. A copy of the site-wide inspection form completed for June 27, 2023 is included in Attachment B. Photographs, taken on June 27, 2023 illustrating the condition of the exterior site cover on that date, are also included in Attachment B.

- Post Remediation Media Monitoring and Sampling:

During the reporting period, a post-remediation groundwater sampling event was completed at the Site on June 27, 2023. The results of the groundwater sampling conducted on June 27, 2023 are provided herein as follows:

- Copies of the groundwater sampling logs are included in Attachment D. The approximate locations of the monitoring wells sampled are depicted on Figure 2. [Note: The quantity of water in monitoring well MW-1 was insufficient to conduct sampling using low-flow methods. As such, a grab sample of the water encountered in MW-1 on June 27, 2023 was collected using a dedicated disposable bailer, and the quantity of water obtained was sufficient to test for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).]
- Copies of the analytical laboratory reports are included in Attachment E.

- A summary of VOCs and SVOCs detected by the analytical laboratory in the groundwater samples are presented on Table 1 and Table 2A, respectively [Note: a summary of results from each post-remediation groundwater sampling event completed between August 22, 2007 and July 14, 2021 are also included on Table 1 and Table 2A]. A summary of the SVOCs detected by the analytical laboratory in the groundwater samples collected July 7 to 8, 2020, July 14, 2021 and June 27, 2023 using the selected ion monitoring (SIM) method are presented in Table 2B.

C. Comparison with Remedial Objectives

- Site-Wide Inspections: The results of the site-wide inspection indicate that remedial objectives were achieved during the reporting period. Specifically, the site-wide inspection revealed that the cover system is intact and functioning as designed to eliminate direct contact.
- Post Remediation Media Monitoring and Sampling: As depicted on Figure 2, measurements of static water levels within the overburden monitoring wells completed on June 27, 2023 indicate that groundwater flow within the overburden zone at the Site is generally toward the east and southeast, and measurements of static water levels within the bedrock monitoring wells on these dates indicate that groundwater flow within the upper bedrock zone at the Site is generally toward the northwest. The flow patterns calculated during the reporting period for the overburden zone are generally consistent with the flow pattern described in the ROD (i.e., MW-1 as the upgradient well, MW-5 and MW-6 as the downgradient wells). However, the flow patterns calculated during the reporting period for the upper bedrock zone is opposite to the flow pattern described in the ROD (i.e., RW-1 as the upgradient well, RW-3 as the downgradient well, with flow toward the south), so that bedrock well RW-1 is currently the downgradient on-site well in the bedrock zone.

The following compounds were detected at concentrations in excess of the NYSDEC groundwater standards or guidance values during the reporting period:

- Petroleum-related VOCs 1,2,4-trimethylbenzene, and m,p-xylene were measured in the groundwater sample collected on July 27, 2023 from monitoring well MW-A at concentrations (i.e., 7.6 ug/l and 8.7 ug/l, respectively) in excess of their respective NYSDEC groundwater standards (i.e., both 5 ug/l). The concentrations of both petroleum related VOCs that exceeded NYSDEC groundwater standards, and the estimated concentrations of nine other petroleum-related VOCs detected at concentrations below NYSDEC groundwater standards (refer to Table 1), in the sample collected from monitoring well MW-A during the reporting period are lower than the concentrations of those compounds measured in the groundwater sample collected from MW-A during previous monitoring event (i.e., July 14, 2021), suggesting natural attenuation of these compounds is occurring. Petroleum-related VOCs were not detected in the groundwater samples collected on July 27, 2023 from monitoring wells MW-1, MW-3 or MW-5 at concentrations above the detection limits utilized by the laboratory.

D. Monitoring Deficiencies

There are no monitoring deficiencies identified at this time.

E. Conclusions and Recommendations for Changes

- Site-Wide Inspection: The site-wide inspection confirmed that the remedial systems/actions for the Site are functioning properly, and effective in achieving their intended objectives. No changes to the site-wide inspection or remedial actions are recommended at this time (i.e., annual site inspections will be completed, but it is proposed that the frequency of the PRR be extended to two years and that the results of the annual site inspections be included in the PRR).
- Post Remediation Media Monitoring and Sampling: Residual impacts from petroleum persist in the groundwater samples collected from monitoring well MW-A. However, the concentrations of petroleum related VOCs and SVOCs detected in the groundwater samples collected from MW-A during the reporting period are significantly lower than the concentrations detected during the previous sampling event (i.e., 2020-2021 reporting period). Further, a general trend of decreasing concentrations of petroleum related VOCs and SVOCs is apparent in the samples collected from monitoring well MW-A since its installation in 2018, suggesting that natural attenuation is occurring over time.

While select petroleum related SVOCs were detected using SIM test methodology in groundwater samples collected from monitoring wells MW-1 and MW-3 during the reporting period, the concentrations of these compounds were reported as estimated concentrations (i.e., below the laboratory reporting limits). Further, in the case of historic samples collected from MW-3, these compounds have not been consistently detected in samples collected during previous reporting periods. As such, the test results for groundwater samples collected from monitoring well MW-3 do not indicate trends with regard to petroleum impacts to groundwater.

Since 2018 (i.e., at the time when monitoring activities at the site resumed), the quantity of groundwater encountered in monitoring well MW-1 has consistently been insufficient to collect groundwater samples using low-flow methods (i.e., ranging between 0.01 ft. and 1.25 ft of water in the well during the past five monitoring events). The water sample obtained during the reporting period (i.e., using grab sample methods) did not indicate the presence of residual petroleum VOCs and only contained estimated concentrations of petroleum related SVOCs (i.e., when tested using SIM test methods) in the groundwater at this location.

It is recommended that groundwater sampling be discontinued in overburden monitoring wells MW-1, MW-3 and MW-5 and that only overburden monitoring well MW-A be sampled/tested during the next groundwater sampling event (scheduled for or around June 27, 2025). Assuming the June 2025 test results for MW-A are comparable to, or lower, than the July 2023 sample, it is recommended that the next groundwater sampling event be conducted for the purpose of demonstrating that the Site has met the requirements for site closeout as outlined in Section 6.5 of NYSDEC DER-10. As such, it is recommended that data validation be conducted on the test results for the next groundwater sampling event and that a data

usability summary report (DUSR) be prepared to document the data validation. A data package that is compliant with NYSDEC Category B Analytical Services Protocol (ASP) will be requested from the analytical laboratory for data validation.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

The requirements identified in the SMP for the Site were met during the reporting period, and, with the exception of a revision to the scope of the Post Remediation Groundwater Monitoring, no modifications are required to bring the plan into compliance.

B. Performance and Effectiveness of the Remedy

An evaluation of the components of the SMP during the reporting period indicate that:

- the IC/EC controls are protective of human health and the environment;
- the monitoring plan sufficiently monitored the performance of the remedies implemented; and
- the remedial program is achieving the remedial goals identified for the Site.

C. Future PRR Submittals

1. It is recommended that the frequency of future PRRs be modified from the schedule identified in the SMP. Specifically, it is recommended that the next PRR cover a two-year reporting period starting July 26, 2023 and extending through July 26, 2025. This report would include deliverables for the Site-wide inspections to be completed on or around June 27, 2024, June 27, 2025, and the groundwater sampling/testing event to be conducted on or around June 27, 2025.
2. The requirements for site closure have not been achieved. As such, it is recommended that site management continue. However, should the test results for groundwater samples collected during the next groundwater sampling/testing event indicate that the concentrations of petroleum-related VOCs and SVOCs have decreased to levels at or below NYSDEC groundwater standards, it is recommended that site closeout be initiated.

PERIODIC REVIEW REPORT
REPORTING PERIOD: JULY 26, 2022 THROUGH JULY 26, 2023

147 STATE STREET
MANCHESTER, NEW YORK
NYSDEC SITE NO. B00131

FIGURES

Figure 1 Project Locus
Figure 2 Potentiometric Overburden and Bedrock Groundwater Contour Maps measured on June 27, 2023

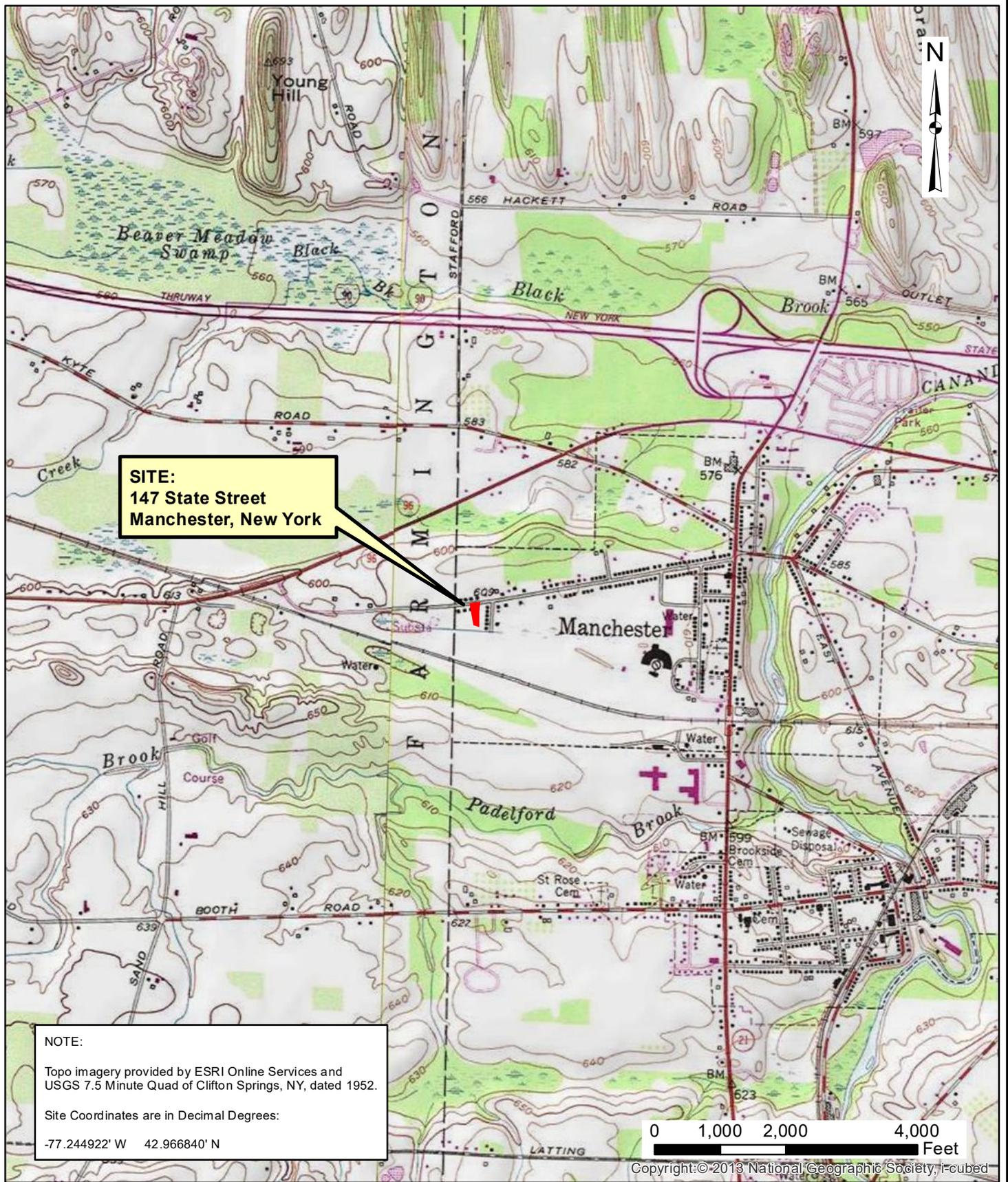
TABLES

Table 1 Summary of Detected Volatile Organic Compounds: Groundwater Samples
Table 2A Summary of Detected Semi-Volatile Organic Compounds (8270D): Groundwater Samples
Table 2B Summary of Detected Semi-Volatile Organic Compounds (8270SIM): Groundwater Samples

ATTACHMENTS

Attachment A Property Survey Map
Attachment B Site Wide Inspection Form and Photographs
Attachment C Institutional and Engineering Control Certification Forms
Attachment D Sampling Logs for June 27, 2023 Groundwater Sampling Event
Attachment E Analytical Laboratory Report for June 27, 2023 Groundwater Sampling Event

FIGURES

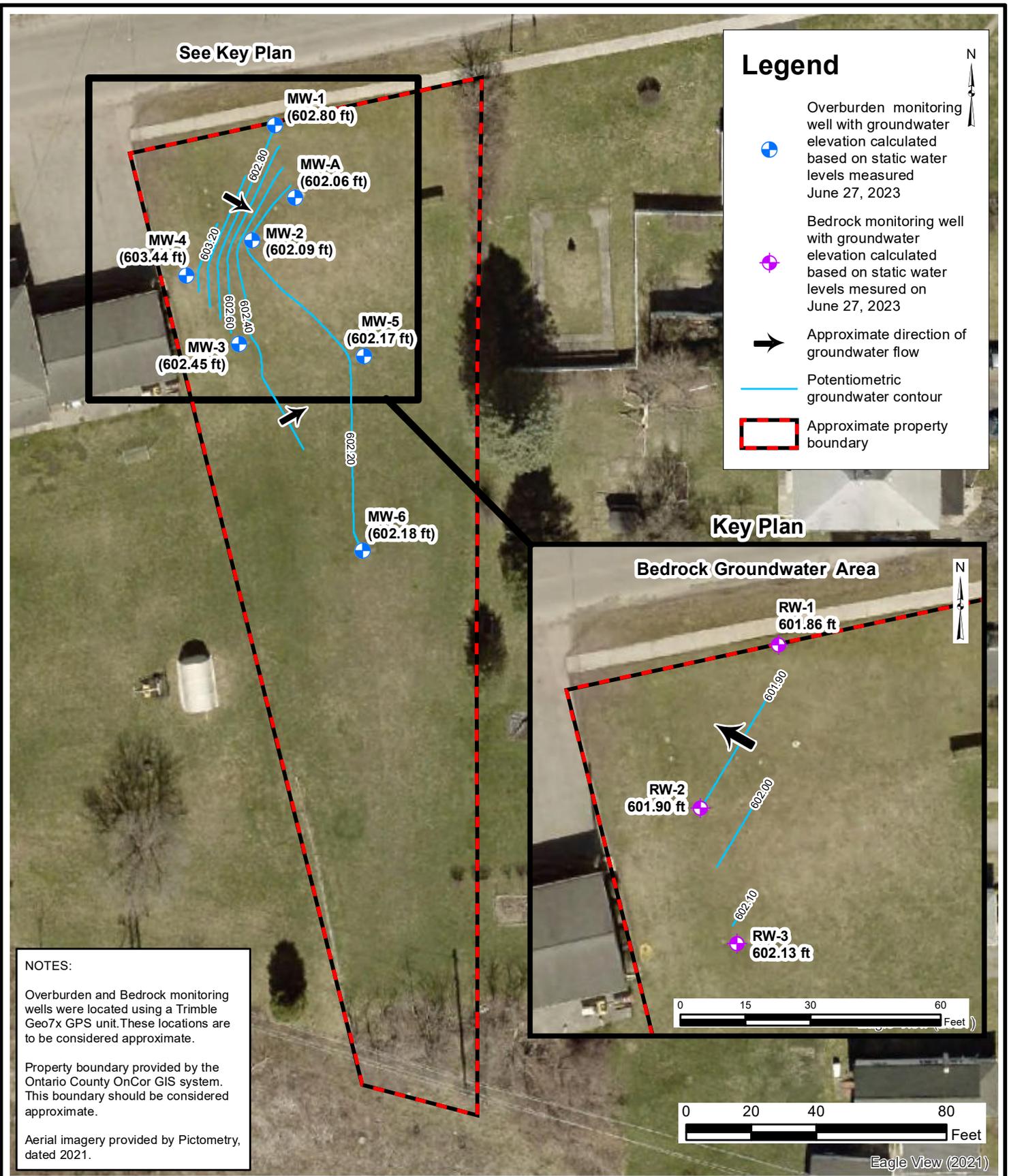


Date	01-10-2019
Drawn By	CPS
Scale	AS NOTED

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title	FREDERICK PROPERTY 147 STATE STREET MANCHESTER, NEW YORK NYSDEC SITE: B00131-8
Drawing Title	Project Locus Map

Project No.	5474S-18
	FIGURE 1



Date	07-18-2023
Drawn By	CPS
Scale	AS NOTED

day
DAY ENVIRONMENTAL, INC.
 Environmental Consultants
 Rochester, New York 14606

Project Title	FREDERICK PROPERTY 147 STATE STREET MANCHESTER, NEW YORK NYSDEC SITE NO. B00131
Drawing Title	Potentiometric Overburden and Bedrock Groundwater Contour Maps measured on June 27, 2023

Project No.	5474S-18
	FIGURE 2

TABLES

TABLE 1
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC SITE # B00131
 SUMMARY OF DETECTED VOCS: GROUNDWATER SAMPLES

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																		
		MW-1		MW-2					MW-3					MW-4						
		7/14/2021	6/27/2023	8/22/2007	12/22/2009	9/27/2017	7/1/2019	7/8/2020	8/22/2007	12/22/2009	9/27/2017	7/1/2019	7/7/2020	7/14/2021	6/27/2023	8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/8/2020
1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	1.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
Methylene chloride	5	ND	ND	1.4	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	0.33 J	ND	1.6	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																		
		MW-5						MW-6						MW-A						
		8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/20	7/14/2021	6/27/2023	8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/2020	7/2/2018	7/1/2019	7/8/2020	7/14/2021	6/27/2023		
1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	180	600	160	7.6	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	670	54	200	82	1.5 J	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30 J	5.3 J	ND	ND	ND	ND	ND
4-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14 J	1.4 J	ND	5.5	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78 J	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3 BJ	ND	72 J	18 B	ND	ND	2.1 J	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35 J	4.4 J	ND	1.3	0.38 J	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	280	51 J	100	18	2.1 J	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,600	120	200	24	4.1	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99 J	13	28	6.1	ND	ND	ND	ND
Methylcyclohexane	NS	ND	NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	220 J	35	110	55	2.5 J	ND	ND
Methylene chloride	5	1.8	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	260	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	490	33	29	8.8	1.5 J	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,300	340	640	81	8.7	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29 J	3.4 J	16 J	10	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	25	81	14	0.99 J	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,200	60	83	22	1.9 J	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16 J	2.6 J	9.0 J	7.0	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																		
		RW-1						RW-2						RW-3						
		8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/2020	7/14/2021	8/22/2007	8/22/07 - DUP	12/22/2009	9/27/2017	7/1/2019	7/8/2020	8/22/2007	12/22/2009	12/22/09 - DUP	9/27/2017	9/27/17 - DUP	7/1/2019	7/7/2020
1,2-Dichloroethene	5	7.1	4.86	ND	0.43 J	0.72 J	2.4 J	4.2	4.4	2.29	ND	0.43 J	0.91 J	5.8	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND
Methylene chloride	5	1.6	ND	ND	ND	ND	1.6	2.4	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	9.3	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	28	22	2.45	2.5 J	2.8	6.6	2.4	2.6	3.1	ND	1.1 J	2.3	22	2.71	2.0	ND	ND	ND	ND
Trichloroethene	5	9.8	8.44	ND	1.1 J	1.2	3.8	4.3	4.4	ND	ND	0.74 J	1.2	7.6	ND	ND	ND	ND	ND	ND

NOTES
 Results and groundwater standards/guidance values are in micrograms per liter (µg/l) or parts per billion (ppb)
 (1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.
 VOCs = Volatile Organic Compounds
 ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory.
 NS = No Standard/Guidance Value
 NT = Not Tested
 B = Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
 J = Estimated Concentration
Highlighted value exceeds the groundwater standard or guidance value

TABLE 2A
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC SITE # B00131
 SUMMARY OF DETECTED SVOCs via USEPA METHOD 8270D: GROUNDWATER SAMPLES

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																	
		MW-1	MW-2					MW-3					MW-4						
		6/27/2023	8/22/2007	#####	9/27/2017	7/1/2019	7/8/2020	8/22/2007	12/22/2009	9/27/2017	7/1/2019	7/7/2020	7/14/2021	6/27/2023	8/22/2007	#####	9/27/2017	7/2/2019	7/8/2020
2-Methylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	ND	NT	NT	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND
Benzaldehyde	NS	ND	NT	NT	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	ND	ND	ND	ND	ND	ND	3.1
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																	
		MW-5						MW-6					MW-A						
		8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/2020	7/14/2021	6/27/2023	8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/2020	7/2/2018	7/1/2019	7/8/2020	7/14/2021	6/27/2023	
2-Methylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	6.7 J	36	ND	ND	
Acetophenone	NS	NT	NT	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	1.7 J	ND	ND	ND	
Benzaldehyde	NS	NT	NT	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	4.8 J	ND	ND	ND	
Bis(2-ethylhexyl) Phthalate	5	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND	ND	180 D	ND	ND	ND	
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	390	27	94	14	0.89 J	

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date																	
		RW-1						RW-2					RW-3						
		8/22/2007	12/22/2009	9/27/2017	7/2/2019	7/7/2020	7/14/2021	8/22/2007	8/22/07 - DUP	12/22/2009	9/27/2017	7/1/2019	7/8/2020	8/22/2007	12/22/2009	12/22/09 - DUP	9/27/2017	9/27/17 - DUP	7/1/2019
2-Methylnaphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetophenone	NS	NT	NT	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	NT	NT	NT	ND	ND	
Benzaldehyde	NS	NT	NT	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	NT	NT	NT	ND	ND	
Bis(2-ethylhexyl) Phthalate	5	ND	ND	ND	490	2.3 J	ND	ND	ND	ND	ND	ND	2.9 J	ND	ND	ND	ND	ND	
Di-n-butylphthalate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTES
 Results and groundwater standards/guidance values are in micrograms per liter (µg/l) or parts per billion (ppb)
 (1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.
 SVOCs = Semi-Volatile Organic Compounds
 ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory.
 NS = No Standard/Guidance Value
 NT = Not Tested
 D = Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
 J = Estimated Concentration
Highlighted value exceeds the groundwater standard or guidance value

TABLE 2B
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC SITE # B00131
 SUMMARY OF DETECTED SVOCs via USEPA METHOD 8270 SIM: GROUNDWATER SAMPLES

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date															
		MW-1	MW-2	MW-3		MW-5			MW-6	RW-1		RW-2	RW-3	MW-A			
		6/27/2023	7/8/2020	7/7/2020	7/14/2021	6/27/2023	7/7/2020	7/14/2021	6/27/2023	7/7/2020	7/7/2020	7/14/2021	7/8/2020	7/7/2020	7/8/2020	7/14/2021	6/27/2023
Acenaphthene	20	ND	ND	ND	ND	0.01 J	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.14	ND
Acenaphthylene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND
Anthracene	50	0.01 J	ND	ND	ND	0.01 J	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	0.03 J	ND	ND	0.02 J	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	0.02 J
Benzo(g,h,i)perylene	NS	ND	ND	0.02 J	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	0.02 J	ND	ND	0.02 J	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	0.04 J	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	NS	ND	ND	ND	ND	ND	0.02 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	0.04 J	ND	ND	ND	ND	ND	ND
Fluorene	50	0.02 J	ND	ND	ND	0.02 J	ND	ND	ND	ND	0.03 J	ND	ND	ND	0.06 J	0.06 J	ND
Hexachlorobenzene	0.04	0.01 J	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	0.02 J	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01 J
2-Methylnaphthalene	NA	ND	ND	ND	0.23	0.03 J	ND	ND	ND	ND	ND	0.08 J	ND	ND	36	14	ND
Naphthalene	10	ND	ND	ND	0.06 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	11	0.08 J
Pentachlorophenol	1	0.06 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05 J
Phenanthrene	50	0.05 J	ND	ND	ND	0.02 J	ND	ND	ND	ND	0.04 J	ND	ND	ND	ND	0.04 J	ND
Pyrene	50	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND

NOTES

Results and groundwater standards/guidance values are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

SIM = Selective Ion Monitoring

SVOCs = Semi-Volatile Organic Compounds

ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory.

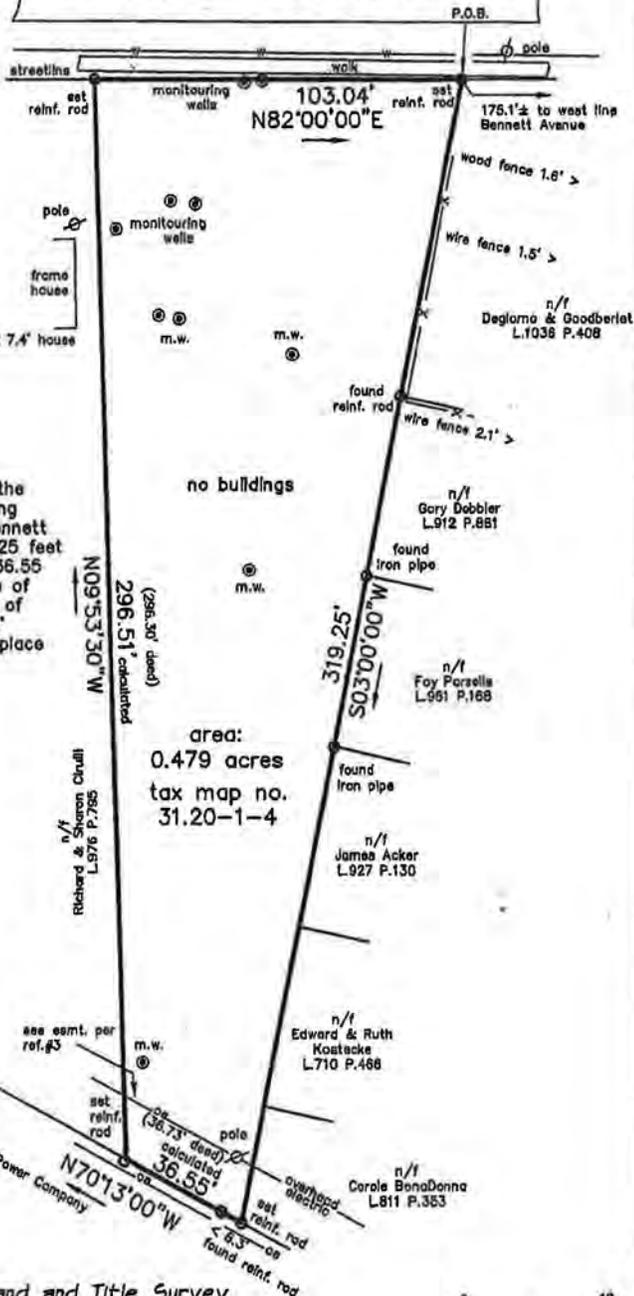
NS = No Standard/Guidance Value

J = Estimated Concentration

Highlighted value exceeds the groundwater standard or guidance value

ATTACHMENT A
PROPERTY SURVEY MAP

State Street



Property legal description: Beginning at a point in the southerly street line of State Street, said point being 175.1 feet, plus or minus, from the west line of Bennett Avenue; thence (1) S03°00'00\"/>

References

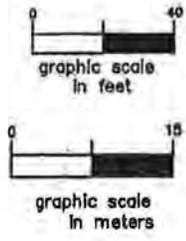
- 1. Deed No. 686, page 661 of deeds and Map Nos.: 911, 348, 19950, 20656
- 2. Easement Line Easement to RG&E Corp., L.352 P.70
- 3. Search No. 085004 by Crossroads Abstract, dated December 31, 2008
- 4. Search No. 085004 by Crossroads Abstract, dated December 31, 2008
- 5. NOTE: water main location per report of Vill. of Manchester official

Legend

- ⊙ utility pole
- ⊙ monitoring well
- ⊙ survey monumentation, as noted

Certification: New York State—Department of Environmental Conservation

ALTA/ACSM Land and Title Survey
of Lands of the
Village of Manchester
being in the Village of Manchester
Ontario County, New York
Scale: 1 inch = 40 feet January 5, 2009



That this plan was prepared January 5, 2009 from an instrument survey completed December 29, 2008 and from materials referenced hereon.

David M. Parrinello
David M. Parrinello NYSPLS 049724



Freeland-Parrinello
LAND SURVEYORS
42 Beaman Street
Canandalgua, New York 14424
(585)394-5110 2001-116R

ATTACHMENT B

SITE WIDE INSPECTION FORM AND PHOTOGRAPHS

**Frederick Property
147 State Street,
Manchester, New York
NYSDEC Site Number: B00131-8**

Date of Inspection Site Visit: *June 27, 2023*

Personnel Performing Inspection Site Visit: *H. Bertsch*

Affiliation of Personnel: *Day Environmental, Inc.*

- 1. Check integrity of impermeable portions (e.g., concrete) of cover system, include whether any sloughing, cracks, settlement, damage, etc.**

Discuss observations and any corrective actions:

Not Applicable - No pavement or structures are present on the site.

- 2. Check integrity of permeable portions (e.g., soil) of cover system, include whether any sloughing, cracks, settlement, damage, etc.**

Discuss observations and any corrective actions:

Cover is present and in good condition across the Site, except along a portion of the western edge where muddy ruts and tire tracks were observed; apparently from a pool installation on the adjacent property. Ruts are less than 0.5' deep

- 3. Check integrity of vegetative cover (e.g., grass), include whether any dead areas, erosion, etc.**

Discuss observations and any corrective actions:

Vegetative cover is present and healthy across most of the Site, except for several areas of dead grass located along the northern edge (i.e., in the vicinity of the ERP sign and along the State St. sidewalk) possibly due to dry weather conditions.

- 4. Check integrity of building floor slabs (e.g., ground floor and basement), include whether any sloughing, cracks, settlement, damage, etc.**

Discuss observations and any corrective actions:

Not Applicable - No structures are present on the site.

5. Groundwater Monitoring Well Assessment

Discuss observations and any corrective actions:

Several monitoring wells were buried under dirt and grass, but accessible once found and excavated. Specifically, MW-4 was buried under a muddy rut (apparently the result of the pool installation), but was found and appeared to be in good condition.



View of the central and northern portions of the Site, and partial view of the eastern and western property boundaries, facing north. The approximate property boundaries are depicted as red dash lines.



View of the central and southern portions of the Site, and partial view of the eastern and western property boundaries, facing south. The approxiamate property boundaries are depicted as red dash lines.



View of the northern portion of the Site with State Street beyond, facing north.



Representative view of the dry/dead vegetation located on the northern portion of the Site (i.e., in proximity to State Street and the project sign), facing southeast.



View of the muddy ruts and tire tracks observed along the western edge of the Site, facing south. The approximate eastern and western property boundaries are depicted as red dash lines.



A representative view of a flush-mounted monitoring well protective cover and pile of dirt/vegetative debris (red arrow) removed from above the well cover for well access. The sidewalk located along the south side of State Street is visible in the upper portion of the photo.



View of the curb box and well casing (cap) for monitoring well MW-4 that was excavated from the muddy rut on the western edge of the Site.

ATTACHMENT C

INSTITUTIONAL AND ENGINEERING CONTROL CERTIFICATION FORMS

B00131 - Certification of Institutional and Engineering Controls

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- 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;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- 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;
- The information presented in this report is accurate and complete;
- No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and
- The assumptions made in the qualitative exposure assessment remain valid.

I certify that all information and statements in this certification form 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, Raymond L. Kampff of Day Environmental, Inc. at 1563 Lyell Avenue, Rochester, NY, am certifying as Village of Manchester for the Site."



Signature of Qualified Environmental Professional
for the Owner

(DATE) November 10, 2023

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
31.20-1-4	Village of Manchester	Soil Management Plan Monitoring Plan Site Management Plan IC/EC Plan Ground Water Use Restriction Landuse Restriction

The Controlled Property may be used for restricted residential, recreational, commercial, or light industrial use as long as the following long-term controls are employed:

(i) any use of groundwater as a source of potable or process water without necessary water quality treatment, as determined by the NYSDOH and prior notification and approval of the NYSDEC, shall not be permitted.

(ii) the potential for vapor intrusion must be evaluated for any buildings developed on-site and appropriate actions to address exposures must be implemented.

(iii) vegetable gardens and farming on the site are prohibited.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
31.20-1-4	Cover System Monitoring Wells Vapor Mitigation

The existing cover system at the site consists of 24 inches of clean fill material/topsoil.

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. B00131

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 Michael J. Buttaccio at 8 Clifton Street, Manchester, New York,
print name print business address

am certifying as Representative of the Owner (Owner or Remedial Party)

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

Michael J. Buttaccio
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

8.7.2023
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 Raymond L. Kampff at 1563 Lyell Avenue, Rochester, New York 14606,
print name print business address

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


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

Stamp
(Required for PE)

7-27-2023
Date

ATTACHMENT D

SAMPLING LOGS FOR JUNE 27, 2023 GROUNDWATER SAMPLING EVENT

DAY ENVIRONMENTAL, INC.

LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG

WELL MW-A

SECTION 1 - SITE AND WELL INFORMATION			
SITE LOCATION	147 State Street Manchester, New York	JOB #	5474S-18
		DATE:	6/27/23
SAMPLE COLLECTOR(S):	H. Bertsch	WEATHER:	80 ° F, cloudy /overcast
PID READING IN WELL HEADSPACE (PPM):	0.0	MEASURING POINT (for water levels):	Top of Casing
CASING TYPE:	PVC	WELL DIAMETER (INCHES):	2"
SCREENED INTERVAL [FT BGS]:	3.75-10.35	INITIAL WATER LEVEL (SWL) [FT]:	<u>SWL / Date Measured</u> 6.54 / 6-27-2023
WELL DEPTH [FT BGS]:	10.35	DEPTH OF PUMP INTAKE [FT BGS]:	~9.0
(Do NOT Measure Well depth Prior To Purging And Sampling)			
LNAPL:	ND	DNAPL:	ND
		OTHER OBSERVATIONS:	None

SECTION 2 – SAMPLING EQUIPMENT			
PUMP TYPE:	Geotech Geopump™ - Peristaltic Pump	WATER LEVEL METER:	Heron OWI Probe
WATER QUALITY METER(S):	YSI ProDSS		
STABILIZED PUMP RATE (ml/min):	125	STABILIZED DRAWDOWN WATER LEVEL [FT]:	6.88

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
10:50	170	6.70	4.65	107.1	7.18	0.632	7.08	17.9	0
11:00	150	6.82	1.58	38.0	4.61	0.611	7.06	16.6	1,700
11:03	125	6.86	1.81	-6.5	2.75	0.608	7.03	17.4	2,150
11:06	125	6.87	1.75	-12.2	2.60	0.613	7.02	17.0	2,525
11:09	125	6.88	1.52	-33.2	2.14	0.614	7.01	16.1	2,900
11:12	125	6.88	1.45	-41.4	2.54	0.612	7.00	16.1	3,275
11:15	125	6.87	1.40	-49.5	1.29	0.611	7.00	16.1	3,650
11:18	125	6.88	1.38	-51.2	1.85	0.612	7.00	16.1	4,025
11:21	125	6.88	1.36	-52.1	1.19	0.613	7.00	16.0	4,400
SAMPLE OBSERVATIONS: None									

SECTION 4 – SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A	6-27-2023 / 11:25	Peristaltic Pump	TCL + CP-51 VOCs 8260 (included MS/MSD) & TCL + CP-51 SVOCs 8270 (included MS/MSD)

ND= Not Detected

DAY ENVIRONMENTAL, INC.
LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG
WELL MW-3

SECTION 1 – SITE AND WELL INFORMATION			
SITE LOCATION	147 State Street Manchester, New York	JOB #	5474S-18
		DATE:	6-27-2023
SAMPLE COLLECTOR(S):	H. Bertsch	WEATHER:	80 ° F, rainy /overcast
PID READING IN WELL HEADSPACE (PPM):	0.0	MEASURING POINT (for water levels):	Top of Casing
CASING TYPE:	PVC	WELL DIAMETER (INCHES):	2"
SCREENED INTERVAL [FT BGS]:	Unknown	INITIAL WATER LEVEL (SWL) [FT]:	<u>SWL / Date Measured</u> 4.79 / 6-27-2023
WELL DEPTH [FT BGS]:	8.62	DEPTH OF PUMP INTAKE [FT BGS]:	~8.0
(Do NOT Measure Well depth Prior To Purging And Sampling)			
LNAPL:	ND	DNAPL:	ND
		OTHER OBSERVATIONS:	None

SECTION 2 – SAMPLING EQUIPMENT			
PUMP TYPE:	Geotech Geopump™ - Peristaltic Pump	WATER LEVEL METER:	Heron OWI Probe
WATER QUALITY METER(S):	YSI ProDSS		
STABILIZED PUMP RATE (ml/min):	110	STABILIZED DRAWDOWN WATER LEVEL [FT]:	5.06

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
11:50	140	4.92	Not Measured						0
11:54	120	5.00	4.91	108.7	22.40	0.637	7.00	15.8	560
11:57	110	5.05	4.83	113.7	9.20	0.623	6.99	15.9	920
12:00	110	5.06	4.90	117.4	6.96	0.620	6.98	16.2	1,250
12:03	110	5.06	4.92	120.8	5.91	0.617	6.96	16.1	1,580
12:06	110	5.06	4.94	122.1	5.32	0.616	6.97	16.1	1,910
SAMPLE OBSERVATIONS: None									

SECTION 4 – SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-3	6-27-2023 / 12:07	Peristaltic Pump	TCL + CP-51 VOCs 8260 & TCL + CP-51 SVOCs 8270

ND= Not Detected

ATTACHMENT E

ANALYTICAL LABORATORY REPORT FOR JUNE 27, 2023 GROUNDWATER SAMPLING EVENT



ANALYTICAL REPORT

Lab Number:	L2336778
Client:	Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606
ATTN:	Charles Hampton
Phone:	(585) 454-0210
Project Name:	147 STATE STREET
Project Number:	5474S-18
Report Date:	07/12/23

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-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: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2336778-01	MW-1	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 10:40	06/27/23
L2336778-02	MW-3	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 12:07	06/27/23
L2336778-03	MW-5	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 12:40	06/27/23
L2336778-04	MW-A	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 11:25	06/27/23
L2336778-05	EB-062723	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 13:00	06/27/23
L2336778-06	TRIP BLANK	WATER	147 STATE ST., MANCHESTER, NY	06/27/23 00:00	06/27/23

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

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: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

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

L2336778-06: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

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: 07/12/23

ORGANICS

VOLATILES

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01
 Client ID: MW-1
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 10:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/07/23 02:27
 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
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
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-01

Date Collected: 06/27/23 10:40

Client ID: MW-1

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	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
1,2-Dibromo-3-chloropropane	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
n-Propylbenzene	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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01

Date Collected: 06/27/23 10:40

Client ID: MW-1

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02
 Client ID: MW-3
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:07
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/07/23 02:51
 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
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
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-02

Date Collected: 06/27/23 12:07

Client ID: MW-3

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	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
1,2-Dibromo-3-chloropropane	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
n-Propylbenzene	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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02

Date Collected: 06/27/23 12:07

Client ID: MW-3

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03
 Client ID: MW-5
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/07/23 03:15
 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
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
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-03

Date Collected: 06/27/23 12:40

Client ID: MW-5

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	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
1,2-Dibromo-3-chloropropane	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
n-Propylbenzene	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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03

Date Collected: 06/27/23 12:40

Client ID: MW-5

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-04
 Client ID: MW-A
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 11:25
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/07/23 03:39
 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
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.38	J	ug/l	0.50	0.16	1
Toluene	1.5	J	ug/l	2.5	0.70	1
Ethylbenzene	4.1		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
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-04

Date Collected: 06/27/23 11:25

Client ID: MW-A

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	8.7		ug/l	2.5	0.70	1
o-Xylene	1.9	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	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
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.89	J	ug/l	2.5	0.70	1
n-Propylbenzene	0.99	J	ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.5	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	7.6		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	2.1	J	ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	2.5	J	ug/l	10	0.40	1

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-04
 Client ID: MW-A
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 11:25
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	143	J	ug/l			1
Unknown	18.2	J	ug/l			1
Unknown Alkene	2.63	J	ug/l			1
Pentane, 2-methyl-	18.2	NJ	ug/l			1
Cyclopentane, Methyl-	7.80	NJ	ug/l			1
Unknown Benzene	2.60	J	ug/l			1
Pentane, 3-methyl-	7.26	NJ	ug/l			1
Pentane	11.4	NJ	ug/l			1
Butane, 2-Methyl-	32.6	NJ	ug/l			1
Unknown	37.6	J	ug/l			1
2-Butene, 2-methyl-	5.07	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05
 Client ID: EB-062723
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 13:00
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/07/23 04:03
 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
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
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-05

Date Collected: 06/27/23 13:00

Client ID: EB-062723

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	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
1,2-Dibromo-3-chloropropane	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
n-Propylbenzene	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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
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Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05

Date Collected: 06/27/23 13:00

Client ID: EB-062723

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/06/23 20:50
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1800616-5					
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
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
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/06/23 20:50
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1800616-5					
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
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
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
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
1,2-Dibromoethane	ND		ug/l	2.0	0.65
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
1,2-Dibromo-3-chloropropane	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
1,2,4-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
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/06/23 20:50
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1800616-5					

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1800616-3 WG1800616-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	94		96		70-130	2		20
Chloroform	92		92		70-130	0		20
Carbon tetrachloride	98		92		63-132	6		20
1,2-Dichloropropane	89		94		70-130	5		20
Dibromochloromethane	96		99		63-130	3		20
1,1,2-Trichloroethane	99		110		70-130	11		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	95		98		75-130	3		20
Trichlorofluoromethane	98		93		62-150	5		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	99		98		67-130	1		20
Bromodichloromethane	92		94		67-130	2		20
trans-1,3-Dichloropropene	93		96		70-130	3		20
cis-1,3-Dichloropropene	85		88		70-130	3		20
Bromoform	91		100		54-136	9		20
1,1,2,2-Tetrachloroethane	95		100		67-130	5		20
Benzene	89		92		70-130	3		20
Toluene	93		97		70-130	4		20
Ethylbenzene	93		96		70-130	3		20
Chloromethane	100		110		64-130	10		20
Bromomethane	76		72		39-139	5		20
Vinyl chloride	100		98		55-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1800616-3 WG1800616-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	95		91		61-145	4		20
trans-1,2-Dichloroethene	90		93		70-130	3		20
Trichloroethene	89		90		70-130	1		20
1,2-Dichlorobenzene	92		100		70-130	8		20
1,3-Dichlorobenzene	94		98		70-130	4		20
1,4-Dichlorobenzene	91		97		70-130	6		20
Methyl tert butyl ether	99		110		63-130	11		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	93		89		70-130	4		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	98		120		58-148	20		20
Carbon disulfide	94		92		51-130	2		20
2-Butanone	90		110		63-138	20		20
4-Methyl-2-pentanone	93		100		59-130	7		20
2-Hexanone	93		110		57-130	17		20
1,2-Dibromoethane	94		99		70-130	5		20
n-Butylbenzene	96		93		53-136	3		20
sec-Butylbenzene	94		96		70-130	2		20
tert-Butylbenzene	91		94		70-130	3		20
1,2-Dibromo-3-chloropropane	95		110		41-144	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1800616-3 WG1800616-4								
Isopropylbenzene	91		96		70-130	5		20
p-Isopropyltoluene	92		92		70-130	0		20
Naphthalene	89		95		70-130	7		20
n-Propylbenzene	94		95		69-130	1		20
1,2,4-Trichlorobenzene	91		94		70-130	3		20
1,3,5-Trimethylbenzene	92		97		64-130	5		20
1,2,4-Trimethylbenzene	92		96		70-130	4		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	96		89		70-130	8		20
Freon-113	100		94		70-130	6		20
Methyl cyclohexane	96		87		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	98		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1800616-6 WG1800616-7 QC Sample: L2336778-04 Client ID: MW-A												
Methylene chloride	ND	10	10	100		9.7	97		70-130	3		20
1,1-Dichloroethane	ND	10	11	110		10	100		70-130	10		20
Chloroform	ND	10	10	100		9.8	98		70-130	2		20
Carbon tetrachloride	ND	10	10	100		10	100		63-132	0		20
1,2-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
Dibromochloromethane	ND	10	10	100		9.8	98		63-130	2		20
1,1,2-Trichloroethane	ND	10	12	120		11	110		70-130	9		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	10	100		10	100		75-130	0		20
Trichlorofluoromethane	ND	10	10	100		10	100		62-150	0		20
1,2-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		10	100		67-130	10		20
Bromodichloromethane	ND	10	9.9	99		9.5	95		67-130	4		20
trans-1,3-Dichloropropene	ND	10	9.9	99		9.3	93		70-130	6		20
cis-1,3-Dichloropropene	ND	10	9.4	94		9.0	90		70-130	4		20
Bromoform	ND	10	10	100		9.6	96		54-136	4		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		10	100		67-130	10		20
Benzene	0.38J	10	11	110		10	100		70-130	10		20
Toluene	1.5J	10	16	160	Q	12	120		70-130	29	Q	20
Ethylbenzene	4.1	10	27	229	Q	16	119		70-130	51	Q	20
Chloromethane	ND	10	16	160	Q	14	140	Q	64-130	13		20
Bromomethane	ND	10	5.5	55		7.1	71		39-139	25	Q	20
Vinyl chloride	ND	10	12	120		11	110		55-140	9		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1800616-6 WG1800616-7 QC Sample: L2336778-04 Client ID: MW-A												
Chloroethane	ND	10	12	120		12	120		55-138	0		20
1,1-Dichloroethene	ND	10	10	100		10	100		61-145	0		20
trans-1,2-Dichloroethene	ND	10	10	100		9.7	97		70-130	3		20
Trichloroethene	ND	10	9.6	96		9.2	92		70-130	4		20
1,2-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,4-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
Methyl tert butyl ether	ND	10	11	110		11	110		63-130	0		20
p/m-Xylene	8.7	20	57	242	Q	32	117		70-130	56	Q	20
o-Xylene	1.9J	20	26	130		23	115		70-130	12		20
cis-1,2-Dichloroethene	ND	10	10	100		9.8	98		70-130	2		20
Styrene	ND	20	21	105		20	100		70-130	5		20
Dichlorodifluoromethane	ND	10	12	120		12	120		36-147	0		20
Acetone	2.1J	10	12	120		10	100		58-148	18		20
Carbon disulfide	ND	10	10	100		10	100		51-130	0		20
2-Butanone	ND	10	17	170	Q	14	140	Q	63-138	19		20
4-Methyl-2-pentanone	ND	10	11	110		10	100		59-130	10		20
2-Hexanone	ND	10	10	100		9.9	99		57-130	1		20
1,2-Dibromoethane	ND	10	10	100		10	100		70-130	0		20
n-Butylbenzene	ND	10	12	120		11	110		53-136	9		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	10	100		9.6	96		41-144	4		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1800616-6 WG1800616-7 QC Sample: L2336778-04 Client ID: MW-A												
Isopropylbenzene	ND	10	12	120		11	110		70-130	9		20
p-Isopropyltoluene	ND	10	12	120		11	110		70-130	9		20
Naphthalene	0.89J	10	16	160	Q	11	110		70-130	37	Q	20
n-Propylbenzene	0.99J	10	13	130		11	110		69-130	17		20
1,2,4-Trichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
1,3,5-Trimethylbenzene	1.5J	10	13	130		12	120		64-130	8		20
1,2,4-Trimethylbenzene	7.6	10	25	174	Q	20	124		70-130	22	Q	20
Methyl Acetate	ND	10	10	100		9.6	96		70-130	4		20
Cyclohexane	2.1J	10	13	130		12	120		70-130	8		20
Freon-113	ND	10	9.8	98		9.5	95		70-130	3		20
Methyl cyclohexane	2.5J	10	13	130		12	120		70-130	8		20

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4	103		94		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	95		93		70-130
Toluene-d8	100		100		70-130

SEMIVOLATILES

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01
 Client ID: MW-1
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 10:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 07/05/23 15:18
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-01

Date Collected: 06/27/23 10:40

Client ID: MW-1

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	59.0	J	ug/l			1
Unknown Organic Acid	11.7	J	ug/l			1
Unknown	13.7	J	ug/l			1
Unknown Alkane	1.93	J	ug/l			1
Unknown	2.76	J	ug/l			1
Unknown	1.82	J	ug/l			1
Unknown	1.85	J	ug/l			1
Unknown	2.22	J	ug/l			1
Unknown Organic Acid	21.5	J	ug/l			1
Unknown	1.53	J	ug/l			1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01

Date Collected: 06/27/23 10:40

Client ID: MW-1

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	62		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01
 Client ID: MW-1
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 10:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/02/23 11:15
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.01	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	0.06	J	ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-01

Date Collected: 06/27/23 10:40

Client ID: MW-1

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	120		10-120
4-Terphenyl-d14	66		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02
 Client ID: MW-3
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:07
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 07/05/23 15:47
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-02

Date Collected: 06/27/23 12:07

Client ID: MW-3

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	40.2	J	ug/l			1
Unknown	1.45	J	ug/l			1
Unknown	3.09	J	ug/l			1
Unknown	13.8	J	ug/l			1
Unknown	3.05	J	ug/l			1
Unknown	2.76	J	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	2.73	J	ug/l			1
Unknown	2.62	J	ug/l			1
Unknown Organic Acid	4.73	J	ug/l			1
Unknown Organic Acid	3.60	J	ug/l			1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02

Date Collected: 06/27/23 12:07

Client ID: MW-3

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	74		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02
 Client ID: MW-3
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:07
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/02/23 11:31
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.01	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	0.02	J	ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.01	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.03	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-02

Date Collected: 06/27/23 12:07

Client ID: MW-3

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	128	Q	10-120
4-Terphenyl-d14	73		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03
 Client ID: MW-5
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 07/05/23 16:15
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03

Date Collected: 06/27/23 12:40

Client ID: MW-5

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	27.9	J	ug/l			1
Unknown	1.82	J	ug/l			1
Unknown	1.82	J	ug/l			1
Unknown	1.85	J	ug/l			1
Unknown Organic Acid	4.80	J	ug/l			1
Unknown Organic Acid	3.27	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown	10.7	J	ug/l			1
Unknown	1.89	J	ug/l			1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03

Date Collected: 06/27/23 12:40

Client ID: MW-5

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	60		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-03
 Client ID: MW-5
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/02/23 11:48
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-03
 Client ID: MW-5
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 12:40
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	64		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-04
 Client ID: MW-A
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 11:25
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 07/05/23 16:43
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-04

Date Collected: 06/27/23 11:25

Client ID: MW-A

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	24.3	J	ug/l	1
Unknown Organic Acid	4.00	J	ug/l	1
Unknown	2.36	J	ug/l	1
Unknown Organic Acid	2.11	J	ug/l	1
Unknown	12.8	J	ug/l	1
Unknown Organic Acid	2.98	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	58		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-04
 Client ID: MW-A
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 11:25
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/02/23 12:05
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.08	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	0.05	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-04

Date Collected: 06/27/23 11:25

Client ID: MW-A

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	63		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05
 Client ID: EB-062723
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 13:00
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 07/05/23 18:08
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2336778-05

Date Collected: 06/27/23 13:00

Client ID: EB-062723

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	41.8	J	ug/l			1
Unknown	2.69	J	ug/l			1
Unknown Organic Acid	5.24	J	ug/l			1
Unknown	2.58	J	ug/l			1
Unknown	3.38	J	ug/l			1
Unknown Organic Acid	4.40	J	ug/l			1
Unknown	1.67	J	ug/l			1
Unknown	1.89	J	ug/l			1
Unknown	1.53	J	ug/l			1
Unknown	2.51	J	ug/l			1
Unknown	12.1	J	ug/l			1
Unknown	2.11	J	ug/l			1
Unknown	1.67	J	ug/l			1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05

Date Collected: 06/27/23 13:00

Client ID: EB-062723

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	62		41-149

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05
 Client ID: EB-062723
 Sample Location: 147 STATE ST., MANCHESTER, NY

Date Collected: 06/27/23 13:00
 Date Received: 06/27/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/02/23 12:55
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**SAMPLE RESULTS**

Lab ID: L2336778-05

Date Collected: 06/27/23 13:00

Client ID: EB-062723

Date Received: 06/27/23

Sample Location: 147 STATE ST., MANCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	110		10-120
4-Terphenyl-d14	64		41-149

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/03/23 11:22
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1798588-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/03/23 11:22
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1798588-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	21.6	J	ug/l
Unknown Organic Acid	3.31	J	ug/l
Unknown Organic Acid	2.29	J	ug/l
Unknown	13.6	J	ug/l
Unknown	2.40	J	ug/l

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/03/23 11:22
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/01/23 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1798588-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	71		41-149

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/02/23 09:19
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1798589-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.08	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02
Pentachlorophenol	0.06	J	ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 07/02/23 09:19
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/01/23 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1798589-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	126	Q	10-120
4-Terphenyl-d14	75		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1798588-2 WG1798588-3								
Bis(2-chloroethyl)ether	67		70		40-140	4		30
3,3'-Dichlorobenzidine	54		54		40-140	0		30
2,4-Dinitrotoluene	80		83		48-143	4		30
2,6-Dinitrotoluene	72		76		40-140	5		30
4-Chlorophenyl phenyl ether	62		63		40-140	2		30
4-Bromophenyl phenyl ether	57		57		40-140	0		30
Bis(2-chloroisopropyl)ether	93		96		40-140	3		30
Bis(2-chloroethoxy)methane	74		76		40-140	3		30
Hexachlorocyclopentadiene	41		42		40-140	2		30
Isophorone	61		64		40-140	5		30
Nitrobenzene	68		70		40-140	3		30
NDPA/DPA	68		70		40-140	3		30
n-Nitrosodi-n-propylamine	63		65		29-132	3		30
Bis(2-ethylhexyl)phthalate	100		100		40-140	0		30
Butyl benzyl phthalate	86		90		40-140	5		30
Di-n-butylphthalate	86		86		40-140	0		30
Di-n-octylphthalate	95		96		40-140	1		30
Diethyl phthalate	80		81		40-140	1		30
Dimethyl phthalate	73		73		40-140	0		30
Biphenyl	60		61		40-140	2		30
4-Chloroaniline	52		56		40-140	7		30
2-Nitroaniline	74		76		52-143	3		30
3-Nitroaniline	74		77		25-145	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1798588-2 WG1798588-3								
4-Nitroaniline	74		79		51-143	7		30
Dibenzofuran	69		68		40-140	1		30
1,2,4,5-Tetrachlorobenzene	45		47		2-134	4		30
Acetophenone	57		58		39-129	2		30
2,4,6-Trichlorophenol	59		61		30-130	3		30
p-Chloro-m-cresol	67		67		23-97	0		30
2-Chlorophenol	74		77		27-123	4		30
2,4-Dichlorophenol	76		75		30-130	1		30
2,4-Dimethylphenol	61		47		30-130	26		30
2-Nitrophenol	86		87		30-130	1		30
4-Nitrophenol	77		79		10-80	3		30
2,4-Dinitrophenol	63		62		20-130	2		30
4,6-Dinitro-o-cresol	77		82		20-164	6		30
Phenol	51		51		12-110	0		30
2-Methylphenol	66		66		30-130	0		30
3-Methylphenol/4-Methylphenol	74		74		30-130	0		30
2,4,5-Trichlorophenol	63		64		30-130	2		30
Carbazole	75		77		55-144	3		30
Atrazine	68		65		40-140	5		30
Benzaldehyde	63		64		40-140	2		30
Caprolactam	38		40		10-130	5		30
2,3,4,6-Tetrachlorophenol	59		60		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1798588-2 WG1798588-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		58		21-120
Phenol-d6	50		49		10-120
Nitrobenzene-d5	66		67		23-120
2-Fluorobiphenyl	58		57		15-120
2,4,6-Tribromophenol	65		60		10-120
4-Terphenyl-d14	57		56		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1798589-2 WG1798589-3								
Acenaphthene	79		73		40-140	8		40
2-Chloronaphthalene	82		74		40-140	10		40
Fluoranthene	75		71		40-140	5		40
Hexachlorobutadiene	80		70		40-140	13		40
Naphthalene	80		71		40-140	12		40
Benzo(a)anthracene	79		76		40-140	4		40
Benzo(a)pyrene	88		79		40-140	11		40
Benzo(b)fluoranthene	83		76		40-140	9		40
Benzo(k)fluoranthene	89		82		40-140	8		40
Chrysene	79		74		40-140	7		40
Acenaphthylene	86		77		40-140	11		40
Anthracene	79		73		40-140	8		40
Benzo(ghi)perylene	78		72		40-140	8		40
Fluorene	104		94		40-140	10		40
Phenanthrene	75		70		40-140	7		40
Dibenzo(a,h)anthracene	80		74		40-140	8		40
Indeno(1,2,3-cd)pyrene	76		68		40-140	11		40
Pyrene	75		70		40-140	7		40
2-Methylnaphthalene	82		76		40-140	8		40
Pentachlorophenol	100		93		40-140	7		40
Hexachlorobenzene	81		75		40-140	8		40
Hexachloroethane	83		70		40-140	17		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1798589-2 WG1798589-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		66		21-120
Phenol-d6	68		58		10-120
Nitrobenzene-d5	98		83		23-120
2-Fluorobiphenyl	82		69		15-120
2,4,6-Tribromophenol	91		85		10-120
4-Terphenyl-d14	69		63		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1798588-4 WG1798588-5 QC Sample: L2336778-04 Client ID: MW-A												
Bis(2-chloroethyl)ether	ND	18.2	11	61		12	66		40-140	9		30
3,3'-Dichlorobenzidine	ND	18.2	10	55		9.2	51		40-140	8		30
2,4-Dinitrotoluene	ND	18.2	12	66		12	66		48-143	0		30
2,6-Dinitrotoluene	ND	18.2	12	66		12	66		40-140	0		30
4-Chlorophenyl phenyl ether	ND	18.2	11	61		11	61		40-140	0		30
4-Bromophenyl phenyl ether	ND	18.2	11	61		11	61		40-140	0		30
Bis(2-chloroisopropyl)ether	ND	18.2	12	66		13	72		40-140	8		30
Bis(2-chloroethoxy)methane	ND	18.2	12	66		12	66		40-140	0		30
Hexachlorocyclopentadiene	ND	18.2	8.9J	49		10.J	55		40-140	12		30
Isophorone	ND	18.2	12	66		13	72		40-140	8		30
Nitrobenzene	ND	18.2	13	72		13	72		40-140	0		30
NDPA/DPA	ND	18.2	12	66		12	66		40-140	0		30
n-Nitrosodi-n-propylamine	ND	18.2	13	72		13	72		29-132	0		30
Bis(2-ethylhexyl)phthalate	ND	18.2	14	77		14	77		40-140	0		30
Butyl benzyl phthalate	ND	18.2	14	77		14	77		40-140	0		30
Di-n-butylphthalate	ND	18.2	12	66		13	72		40-140	8		30
Di-n-octylphthalate	ND	18.2	15	83		15	83		40-140	0		30
Diethyl phthalate	ND	18.2	12	66		13	72		40-140	8		30
Dimethyl phthalate	ND	18.2	12	66		12	66		40-140	0		30
Biphenyl	ND	18.2	11	61		12	66		40-140	9		30
4-Chloroaniline	ND	18.2	13	72		12	66		40-140	8		30
2-Nitroaniline	ND	18.2	12	66		13	72		52-143	8		30
3-Nitroaniline	ND	18.2	12	66		12	66		25-145	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1798588-4 WG1798588-5 QC Sample: L2336778-04 Client ID: MW-A												
4-Nitroaniline	ND	18.2	12	66		12	66		51-143	0		30
Dibenzofuran	ND	18.2	12	66		12	66		40-140	0		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	10	55		11	61		2-134	10		30
Acetophenone	ND	18.2	13	72		14	77		39-129	7		30
2,4,6-Trichlorophenol	ND	18.2	12	66		12	66		30-130	0		30
p-Chloro-m-cresol	ND	18.2	14	77		14	77		23-97	0		30
2-Chlorophenol	ND	18.2	11	61		12	66		27-123	9		30
2,4-Dichlorophenol	ND	18.2	12	66		12	66		30-130	0		30
2,4-Dimethylphenol	ND	18.2	11	61		10	55		30-130	10		30
2-Nitrophenol	ND	18.2	12	66		13	72		30-130	8		30
4-Nitrophenol	ND	18.2	14	77		14	77		10-80	0		30
2,4-Dinitrophenol	ND	18.2	14.J	77		14.J	77		20-130	0		30
4,6-Dinitro-o-cresol	ND	18.2	14	77		15	83		20-164	7		30
Phenol	ND	18.2	9.6	53		10	55		12-110	4		30
2-Methylphenol	ND	18.2	12	66		12	66		30-130	0		30
3-Methylphenol/4-Methylphenol	ND	18.2	13	72		13	72		30-130	0		30
2,4,5-Trichlorophenol	ND	18.2	12	66		13	72		30-130	8		30
Carbazole	ND	18.2	12	66		13	72		55-144	8		30
Atrazine	ND	18.2	16	88		15	83		40-140	6		30
Benzaldehyde	ND	18.2	18	99		21	120		40-140	15		30
Caprolactam	ND	18.2	8.1J	45		7.5J	41		10-130	8		30
2,3,4,6-Tetrachlorophenol	ND	18.2	12	66		12	66		40-140	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1798588-4 WG1798588-5 QC Sample: L2336778-04 Client ID: MW-A

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	55		61		10-120
2-Fluorobiphenyl	58		66		15-120
2-Fluorophenol	58		68		21-120
4-Terphenyl-d14	56		60		41-149
Nitrobenzene-d5	67		73		23-120
Phenol-d6	49		55		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Project Number: 5474S-18

Lab Number: L2336778

Report Date: 07/12/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1798589-4 WG1798589-5 QC Sample: L2336778-04 Client ID: MW-A												
Acenaphthene	ND	18.2	12	66		12	66		40-140	0		40
2-Chloronaphthalene	ND	18.2	13	72		13	72		40-140	0		40
Fluoranthene	ND	18.2	12	66		12	66		40-140	0		40
Hexachlorobutadiene	ND	18.2	13	72		13	72		40-140	0		40
Naphthalene	0.08J	18.2	12	66		12	66		40-140	0		40
Benzo(a)anthracene	ND	18.2	14	77		14	77		40-140	0		40
Benzo(a)pyrene	ND	18.2	15	83		14	77		40-140	7		40
Benzo(b)fluoranthene	0.02J	18.2	14	77		13	72		40-140	7		40
Benzo(k)fluoranthene	ND	18.2	14	77		13	72		40-140	7		40
Chrysene	ND	18.2	13	72		12	66		40-140	8		40
Acenaphthylene	ND	18.2	14	77		14	77		40-140	0		40
Anthracene	ND	18.2	13	72		13	72		40-140	0		40
Benzo(ghi)perylene	ND	18.2	15	83		14	77		40-140	7		40
Fluorene	ND	18.2	13	72		13	72		40-140	0		40
Phenanthrene	ND	18.2	12	66		12	66		40-140	0		40
Dibenzo(a,h)anthracene	ND	18.2	15	83		14	77		40-140	7		40
Indeno(1,2,3-cd)pyrene	0.01J	18.2	16	88		14	77		40-140	13		40
Pyrene	ND	18.2	12	66		11	61		40-140	9		40
2-Methylnaphthalene	ND	18.2	12	66		13	72		40-140	8		40
Pentachlorophenol	0.05J	18.2	17	94		17	94		40-140	0		40
Hexachlorobenzene	ND	18.2	14	77		13	72		40-140	7		40
Hexachloroethane	ND	18.2	12	66		14	77		40-140	15		40

Matrix Spike Analysis

Batch Quality Control

Project Name: 147 STATE STREET

Lab Number: L2336778

Project Number: 5474S-18

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatiles Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1798589-4 WG1798589-5 QC Sample: L2336778-04
Client ID: MW-A

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	109		113		10-120
2-Fluorobiphenyl	68		73		15-120
2-Fluorophenol	61		66		21-120
4-Terphenyl-d14	59		60		41-149
Nitrobenzene-d5	81		88		23-120
Phenol-d6	58		62		10-120

Project Name: 147 STATE STREET**Lab Number:** L2336778**Project Number:** 5474S-18**Report Date:** 07/12/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2336778-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-01D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-01E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-02D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-02E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-03D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-03E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04A1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04A2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04B1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04B2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04C1	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)

Project Name: 147 STATE STREET
Project Number: 5474S-18

Serial_No:07122312:42
Lab Number: L2336778
Report Date: 07/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2336778-04C2	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-04D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04D1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04D2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04E1	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-04E2	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L2336778-05D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-05E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2336778-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		ARCHIVE()
L2336778-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		ARCHIVE()

Project Name: 147 STATE STREET
Project Number: 5474S-18

Lab Number: L2336778
Report Date: 07/12/23

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.

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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.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624.1: 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.

