Mcpherson, Benjamin J (DEC)

From: Charlotte Clark <cclark@rouxinc.com>
Sent: Thursday, August 8, 2024 12:06 PM
To: Mcpherson, Benjamin J (DEC)
Cc: Don Benson (dbenson@benson-construction.com); johnstitt@ka-bar.com; Caprio, Andrea (DEC); Michael Lesakowski; lriker@rouxinc.com
Subject: RE: Letter.BCP.C905045.2024-07-02.PRR_DEC Comments
Attachments: 01-Oregon Road Injection Summary Report.pdf

Categories: Waiting on Others

Hi Ben,

Attached is the Oregon Road Summary Report provided by Regenesis.

Agreed on Darcy's law, it was simply used as a jumping off point to estimate groundwater velocity.

Thanks,
Charlotte Clark | Senior Engineer I
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Main: (716) 856-0599 | Mobile: (716) 220-1201
Email: cclark@rouxinc.com | Website: www.rouxinc.com

ROUX
Environmental
Human Health
Economics
Ecological
Data Solutions
Occupational Health & Safety

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, August 7, 2024 3:07 PM
To: Charlotte Clark <cclark@rouxinc.com>
Cc: Don Benson (dbenson@benson-construction.com) <dbenson@benson-construction.com>; johnstitt@ka-bar.com; Caprio, Andrea (DEC) <Andrea.Caprio@dec.ny.gov>; Michael Lesakowski <mlesakowski@rouxinc.com>; Lori Riker <lriker@rouxinc.com>
Subject: RE: Letter.BCP.C905045.2024-07-02.PRR_DEC Comments

Thanks Charlotte.

Do you have some sort of documentation from Regenesis for the transmissivity values presented in the PRR? I did not see that information in the reporting provided in the FER.

Darcy's law isn't directly applicable to the rate of transport of dissolved contaminants, but your point is taken that the higher concentrations of groundwater impacts near MW-12 are unlikely to have even made it to the Plumestop barrier yet.

Ben

Benjamin McPherson, P.E.
(he/him/his)
Professional Engineer 1 (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | benjamin.mcpherson@dec.ny.gov
www.dec.ny.gov

From: Charlotte Clark <cclark@rouxinc.com>
Sent: Monday, August 5, 2024 4:34 PM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Don Benson (dbenson@benson-construction.com) <dbenson@benson-construction.com>; johnstitt@ka-bar.com; Caprio, Andrea (DEC) <Andrea.Caprio@dec.ny.gov>; Michael Lesakowski <mlesakowski@rouxinc.com>; lriker@rouxinc.com
Subject: RE: Letter.BCP.C905045.2024-07-02.PRR_DEC Comments

Good Afternoon Ben,

The revised 2023-2024 PRR for Oregon Road is attached. Sections 1.1, 3.2.1.2, and 4.1 as well as Figure 5 and the IC-EC form have been updated to address your July 2nd comments.

If you would like to discuss any of the revisions further, we would be more than happy to set up a conference call.

Thank you,

Charlotte Clark | Senior Engineer I
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Main: (716) 856-0599 | Mobile: (716) 220-1201
Email: cclark@rouxinc.com | Website: www.rouxinc.com

ROUX
Environmental
Human Health
Economics
Ecological
Data Solutions
Occupational Health & Safety

Please consider the environment before printing this email.

Periodic Review Report

Reporting Period April 17, 2023 to April 17, 2024

Oregon Road Site
BCP Site No. C905045
Olean, New York

May 2024
Revised August 2024

Prepared for:

Homer Street Properties, LLC

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

4343.0001B100/R

Table of Contents

Tables

Figures

Table of Contents (Cont'd)

Appendices

1. Introduction

Roux Environmental Engineering & Geology, D.P.C. (Roux)[1] has prepared this Periodic Review Report (PRR) on behalf of Homer Street Properties, LLC (HSP) (Owner) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C905045 located in Olean, Cattaraugus County, New York (Site; see Figure 1).

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (Ref. 1). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form completed for the Site is included as Appendix A.

This PRR has been completed for the post-remedial activities at the Site for the period April 17, 2023 to April 17, 2024. The annual Site inspection was completed by Roux on March 8, 2024.

1.1 Site Background

The Oregon Road Site was originally developed in the1890s to early 1900s for the oil industry and used as a petroleum storage tank farm. The Site appears to be the ExxonMobil Legacy Site (EMLS) Works #3 area, identified as Socony Vacuum and Felmont Oil. Based on historical records, tanks appear to have been removed in the 1960s. Since that time, the Site has been vacant, undeveloped land. However, numerous underground pipes remained on-Site, the majority of which were removed during remedial activities. Additionally, an abandoned pipeline originally owned by Buckeye Oil Company traversed the eastern portion of the Site which was removed during remedial activities.

Homer Street Properties, LLC (HSP) entered into a Brownfield Cleanup Agreement (BCA) (BCP Site No. C905045) with the NYSDEC on December 1, 2016 (Index No. C905045-10-16) to investigate and remediate the original approximate 24.65-acre Oregon Road parcel (SBL No. 94.001-2-13.2) located in Olean, Cattaraugus County, New York. In October 2018, HSP submitted a BCP application amendment to add the south adjacent 3.65-acre Homer Street Extension (SBL No. 94.001-2-13.8) to the BCP Site and remove an approximate 3.73-acre portion of the Oregon Road parcel on the western side of the BCP site due to steep topography and heavily wooded land, which renders this portion of the parcel undevelopable. The BCP amendment was accepted by the Department on April 12, 2019. Therefore, the "BCP Site" or "Site" referenced through this report refers to the approximate 24.57-acre area shown on Figure 1 and 2.

A Purchase and Sale Agreement between Homer Street Properties, LLC and State and Union, LLC was signed July 6, 2023 for the 3.65-acre portion of BPC Site referred to as the Homer Street Extension (Tax Map/Parcel No. 94.001-2-13.8). A Warranty Deed from HSP to State and Union, LLC dated February 15, 2024 was recorded in the Cattaraugus County Clerk's Office on February 20, 2024 by Instrument Number 202402387. The Advance Notification of Site Change of Use, Transfer of Certification of Completion, and/or Ownership (Notice) was recorded in the Cattaraugus County Clerk's Office on February 20, 2024 by Instrument Number 202402388. The Notice, Warranty Deed, and contact information for the new Certificate of Completion (COC) holder were submitted to NYSDEC on February 22, 2024 and acknowledged by

[1] Formerly Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) and TurnKey Environmental Restoration, LLC (TurnKey).

NYSDEC on February 29, 2024. HSP will perform the groundwater monitoring for both properties through February 15, 2029. State and Union, LLC will be responsible for groundwater monitoring thereafter. A single PRR will be submitted for the BCP Site.

1.2 Purpose/Scope

The Site Management Plan (SMP) requires, among other things, periodic inspection, and certification that the IC/ECs implemented at the Site remain in place and are functioning as designed. This PRR serves that purpose as well as documenting post-remedial actions taken since the COC was issued on December 17, 2021.

2. Site Overview

The Site is in the County of Cattaraugus, City/Town of Olean, New York and contains the following parcels located at the northwest corner of Oregon Road and Homer Street (Refer to Figures 1, 2, 3 and 4):

- Oregon Road: (a portion of) SBL No. 94.001-2-13.2; 20.92 acres
- Homer Street Extension: SBL No. 94.001-2-13.8; 3.65 acres

The approximately 24.57-acre Oregon Road Site is bounded by vacant wooded land to the north/northwest; a commercial/industrial property to the southwest; Homer Street and several commercial/industrial properties to the south/southeast; and Oregon Road and three residential properties to the east/northeast. The Site is currently vacant land with a paved asphalt access road.

Remedial activities were performed in accordance with the NYSDEC-approved Remedial Action Work Plan (Ref. 2) between November 2020 and August 2021. The Site was remediated to NYSDEC Part 375 Track 4 Commercial soil cleanup objectives (CSCOs) and site-specific action limits (SSALs) for use in a commercial redevelopment capacity. The SMP (Ref. 3) and Final Engineering Report (FER; Ref. 4) were approved by the Department on December 14, 2021 and December 17, 2021. The COC was recorded on January 11, 2022. Figure 3 is an aerial view of the Site following remediation. Remedial activities are described in the following sections.

2.1 Remedial Action Activities

2.1.1 Grossly Contaminated Soil (GCS) Excavation Activities

Between November 9, 2020 and March 12, 2021, approximately 33,768 tons of non-hazardous soil/fill was excavated, transported by multiple 6NYCRR Part 364-registered hauling companies, and disposed at Waste Management's (WM) Chaffee Landfill located in Chaffee, New York. During excavation and disposal activities, WM indicated that material was "operationally challenging" and required the material be amended. As such, Portland cement was added and mixed with impacted soil/fill to stabilize the material and it was deemed acceptable by the WM Chaffee Landfill. A total of 340 tons of cement was mixed into the impacted soil/fill for stabilization purposes.

Twenty-three post-excavation end-point sidewall samples and 32 post-excavation end-point bottom samples were collected from areal and vertical excavation extents. All post-excavation end-point sample results were below the SSALs.

During excavation activities and after the excavation area was determined to achieve Remedial Action Objectives (RAOs) with no exceedances of SSALs (field screening and confirmatory post-excavation sampling), the excavation was backfilled with Department-approved on-site overburden to redevelopment subgrade then filled and graded with a minimum 12-inch cover system consisting of Department-approved fill materials and/or topsoil in accordance with DER-10.

2.1.2 SVOC-Impacted Non-hazardous Soil/Fill

Between November 6 and 9, 2020 approximately 816 tons of non-hazardous soil/fill impacted by semi-volatile organic compounds (SVOCs) was excavated, transported by multiple 6NYCRR Part 364 registered hauling companies, and disposed at the WM Chaffee Landfill located in Chaffee, New York.

Eight post-excavation end-point sidewall samples and three post-excavation end-point bottom samples were collected from areal and vertical excavation extents. All post-excavation end-point sample results were below the SSALs.

During excavation activities and after the excavation area was determined to achieve RAOs with no exceedances of SSALs (field screening and confirmatory post-excavation sampling), the excavation was backfilled with Department-approved on-site overburden to redevelopment subgrade then filled and graded with a minimum 12-inch cover system consisting of Department-approved fill materials and/or topsoil in accordance with DER-10.

2.1.3 PFAS-Impacted Soil/Fill Stabilization

During the RI, four distinct treatment zones (TZ), identified as TP-52, and TP-54 TZ-1 through TP-54 TZ-3, were delineated requiring in-situ stabilization using Powder Activated Carbon (PAC) due to impacts from PFAS (perfluoroalkyl and polyfluoroalkyl substances). As a result of a supplemental investigation completed during the remedial construction work, TP-54 TZ-3 was split in half (TP-54 TZ-3A and TP-54 TZ-3B). As such, five distinct areas were treated and stabilized in November 2020 as follows:

- TP-52: 0-2 in.; 9,200 ft²; 56 cubic yards (CY); 1,700 pounds PAC
- TP-54 TZ-1: 0-2 ft; 4,400 ft²; 326 CY; 10,200 pounds PAC
- TP-54 TZ-2: 0-3 ft; 3,150 ft²; 349 CY; 10,200 pounds PAC
- TP-54 TZ-3A: 0-11 ft; 1,691 ft²; 689 CY; 13,600 pounds PAC
- TP-54 TZ-3B: 0-5 ft; 1,691 ft²; 313 CY; 5,100 pounds PAC

Five post-treatment end-point composite samples were collected, one composite per treatment zone. All post-excavation end-point sample results were below the SSALs.

2.1.4 Additional Materials Removal – Subsurface Piping

Known and anticipated subsurface piping was removed and cleaned during remedial activities and in accordance with the Department-approved RAWP. Approximately 4,188 linear feet (LF) of scrap metal was transported by Benson Construction & Development, LLC for recycling at Ben Weitsman of Allegheny located in Allegheny, New York. Two areas within the southeastern portion of the Site were impacted by residual petroleum product remaining in the pipes. Soil/fill in contact with the petroleum product was segregated, excavated, and included in the GCS material tonnage previously summarized in Section 2.1.1.

2.1.5 PlumeStop Liquid Activated Carbon Application

Injection and application of PlumeStop® liquid activated carbon was completed between August 12 and 18, 2021. Prior to injection activities, a downgradient monitoring well was installed south of Two-Mile Creek for

future monitoring to determine the success of the remedial injection activities. The monitoring well, identified as MW-16, was installed on July 19, 2021. All wells on-site were gauged prior to injection activities to monitor groundwater levels. During injection activities, a total of 50 injection points were completed by Regenesis Remediation Services (RRS) along an approximate 100 LF section with a target injection zone between 12 and 18 feet below ground surface (fbgs), depending on grade elevations. All injection activities were completed in accordance with the Department-approved RAWP. Nearby wells, MW-12 (upgradient) and MW-16 (downgradient), along with a temporary piezometer, were continuously monitored during injection activities to determine areal application of PlumeStop. Approximately 5,600 pounds of PlumeStop was applied during the remedial injection activities. All permits, approvals, RRS reports, and daily summaries are provided in the FER.

2.1.6 Groundwater Monitoring

As a requirement of the Department-approved RAWP, two wells (MW-2R and MW-9) proximate the residences east of the Site were sampled before, during, and after remedial excavation activities. A total of six groundwater samples (excluding QA/QC samples) were collected. During remedial excavation activities, several SVOCs were identified above their respective NYSDEC Class GA groundwater quality standards/guidance values (GWQS/GV) at well MW-9. However, all compounds were identified as either non-detect or well below their respective GWQS/GVs after the remedial excavation was complete.

In addition to groundwater sampling, all on-site wells were gauged monthly to monitor groundwater levels during remedial activities. Samples were collected in accordance with DER-10 and the Department-approved RAWP.

3. Site Management Plan

The Department-approved SMP includes an IC/EC Plan, a Monitoring and Sampling Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easement. The Site remedy does not rely on any mechanical systems (e.g., sub-slab depressurization systems, groundwater pump and treat, or soil vapor extraction systems) to protect public health and the environment; therefore, an Operation and Maintenance (O&M) Plan is not required for the Site. A brief description of the components of the SMP is presented below.

3.1 IC/EC Plan

As detailed in the Environmental Easement, several IC/ECs need to be maintained as a requirement of the BCA.

3.1.1 Institutional Controls

- Groundwater-Use Restriction: The use of groundwater for potable and non-potable purposes is prohibited.
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use.
- Implementation of the SMP: The EWP must be followed.

3.1.2 Engineering Controls

- In-Situ Groundwater Treatment Wall: Treatment monitored via groundwater monitoring schedule.
- Groundwater Monitoring: Groundwater is to be monitored semi-annually in 2022 and 2023 then annually thereafter.
- Cover System: The cover system is to be inspected annually.

3.1.3 Site Inspection & IC/EC Compliance

On March 8, 2024, Ms. Lori Riker, Roux's Certifying Professional Engineer, performed a Site visit and assessment. During this visit, the Site covered by this PRR was found to be compliant with the IC/EC requirements. Appendix A includes the completed and P.E.-certified IC/EC Form for the Site.

3.2 Monitoring and Sampling Plan

The Monitoring and Sampling Plan specifies the methods used for:

- Sampling and analysis of groundwater
- Site-wide inspection
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

3.2.1 Groundwater Sampling and Analysis

Groundwater sampling was conducted June 8, 2023 at wells MW-2R, MW-5, MW-7, MW-8, MW-9, MW-12, MW-13, MW-15, and MW-16. The second semi-annual sampling event in December was inadvertently missed. Samples collected in June 2023 were analyzed for target compound list (TCL) + Commissioner Policy 51 (CP-51) volatile organic compounds (VOCs) and tentatively identified compounds (TICs) using USEPA Method 8260 and TCL + CP-51 SVOCs and TICs via USEPA Method 8270. Wells MW-12 and MW-16 were analyzed for PFAS via USEPA Method 1633. During the June 2023 sampling event, every monitoring

well except MW-12 and MW-16 went dry. The June 2023 depth to water levels in wells MW-4, MW-5, MW-6, and MW-8 dropped a minimum of two feet as compared to the levels measure in June 2022. Despite this drop, groundwater continues to flow in the southeast direction. A potential cause for the varying groundwater levels may be due to the amount of precipitation prior to each event. Weather Underground historical data shows two 1-inch storm events prior to the June 2022 sampling event. There were no storm events within the month prior to the June 2023 sampling event. Appendix C includes field notes and analytical data packages for this sampling event. Table 1 summarizes the analytical results as well as historic groundwater quality data. Table 2 summarizes current and historic groundwater elevations. According to the Data Usability Summary Report (DUSR), included as Appendix C, results for the samples are usable either as reported or with minor qualification, except for 1,4-dioxane, which are rejected and not usable. The data was submitted to the Department's EQuIS database and approval is pending.

3.2.1.1 Groundwater Elevations

Figure 5 is an isopotential map for groundwater elevation data collected during the June 2023 sampling event. Overall groundwater flow direction is toward the southeast, consistent with historic groundwater contour maps. This indicates that wells MW-2R, MW-4, MW-6, MW-7, MW-8, MW-9, and MW-13 are upgradient and wells MW-5, MW-10, MW-11, MW-12, MW-13, MW-15, and MW-16 are downgradient.

3.2.1.2 Analytical Data

VOCs

The June 2023 groundwater concentrations indicate all VOCs were either not detected or detected at concentrations below the GWQS/GVs except for acetone detected at 230 ug/L (GWQS/GV = 50 ug/L) at well MW-15. The detection of acetone is considered anomalous as it had not been detected prior to 2022. VOC TIC concentrations were detected at wells MW-2R, MW-5, and MW-15 during the June 2023 sampling events. The maximum detected concentration was 25.4 ug/L at well MW-2R. All other VOC TIC concentrations were less than 5 ug/L, except for 14.4 ug/L in well MW-15. VOC TIC concentrations have either decreased or stayed consistent with historic results where applicable.

SVOCs

The June 2023 groundwater concentrations at wells MW-2R, MW-7, MW-8, MW-9, MW-12, MW-15, and MW-16 were either not detected or detected at concentrations below the NYSDEC Class GA GWQS/GVs. Wells MW-5 and MW-13 had detections of benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene above the NYSDEC Class GA GWQS/GVs. The chrysene concentration in well MW-13 also exceeded it GWQS. Detected SVOC TIC concentrations ranged from 25.2 ug/L (MW-16) to 302 ug/L (MW-9). SVOC TIC concentrations in wells MW-2R, MW-13, and MW-15 significantly decreased between July 2018 and January 2023; MW-2R decreased from 659 ug/L to 114 ug/L; MW-13 decreased from 3,946 ug/L to 60.3 ug/L; and MW-15 decreased from 729 ug/L to 249 ug/L.

PFAS

Perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) results at well MW-12 have indicated an overall decreasing trend; March 2019 PFOS and PFOA results were 1,020 ng/L and 48.8 ng/L, respectively, compared to 216 ng/L and 29.7 ng/L, respectively during the June 2023 sampling event. June 2023 PFOS and PFOA results continue to exceed the NYSDEC February 2023 guidance values of 2.7 and 6.7 ng/L. PFOS and PFOA concentrations at well MW-16 show no distinct trend, but remain within an order of magnitude with PFOS results ranging from 21.8 ng/L to 35.9 ng/L (slightly above NYSDEC guidance

values) and PFOA ranging from 0.816 ng/L to 3.6 ng/L (below NYSDEC guidance values) over the last three sampling events.

The PFOA concentration in well MW-16, which is downgradient of the PlumeStop barrier, remains below the guidance value of 6.7 ng/L. PFOS was detected in well MW-16 at a concentration of 34 ng/L in June 2023, which is slightly above the guidance value of 2.7 ng/L; however, this exceedance is not indicative of a breakthrough. Regenesis collected a soil core sample from the middle of the injection area prior to treatment and determined subsurface effective porosity to be 0.20 and hydraulic conductivity to be 5 ft/day. The hydraulic gradient between MW-12 and MW-16 was 0.00073 ft/ft in June 2022, 0.0013 ft/ft in January 2023, and 0.0015 ft/ft in June 2023 with an average value of 0.0012 ft/ft. Using Darcy's Law (velocity equals hydraulic conductivity multiplied by hydraulic gradient divided by effective porosity), the calculated groundwater velocity is 0.029 ft/day or 11 ft/yr. Wells MW-12 and MW-16 are approximately 55 feet apart so groundwater sampled at MW-12 in June 2022 would not have reached downgradient well MW-16 yet. Continued long-term groundwater monitoring will be required to determine the effectiveness of the PlumeStop liquid activated carbon treatment.

3.2.2 Site-Wide Inspection - Cover System Monitoring

The existing cover system is comprised of a minimum of 12-inches of DER-10 compliant soil/gravel/stone material over a demarcation layer and hardscape asphalt access road. A demarcation layer provides a visual reference to the top of the remaining contamination zone, which is the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in the SMP. Figure 6 depicts the final cover system types and details.

In accordance with the SMP, the cover system must be maintained and replaced in the event it is breached as described in the EWP (SMP Appendix E). The cover is to be inspected on an annual basis and following severe storm events. If frequent areas of distress are noted, they will be repaired based on the following conditions.

If the type of cover system changes from that which exists (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent PRR. The key maintenance concerns and corrective actions are provided below:

- Vegetative Soil Cover Monitoring
  - Areas where erosion problems (i.e., rills or gullies) are observed will be repaired by re-grading the localized area, adding the required fill material and/or topsoil, and reseeding/replanting.
  - If burrowing animals are observed breaching the soil cover, as evidenced by exposed fill material, they will be eradicated by a licensed exterminator.
- Gravel/Stone Cover Monitoring
  - Ruts or erosion along the access roads will be repaired by re-grading the localized area and adding additional material.

At the time of the Site inspection, the Site complied with the IC/EC requirements. Appendix B includes a photographic log showing the vegetated soil, stone/gravel, and hardscape cover systems, and general Site conditions at the time of the March 8, 2024 inspection.

4. Conclusions and Recommendations

4.1 Conclusions

Based on observations during the March 8, 2024 inspection, the Site covered by this PRR was fully compliant with the IC/EC requirements.

The first three rounds of post-COC groundwater monitoring indicate an overall improvement in the groundwater quality. Additional groundwater monitoring will be completed to track SVOC exceedances.

Groundwater velocity between well MW-12 and MW-16 is estimated at 11 ft/year. Further groundwater monitoring will be required to determine the effectiveness of the PlumeStop liquid activated carbon treatment. The remainder of groundwater results were either non-detect or at concentrations below the NYSDEC GA GWQS/GVs.

4.2 Recommendations

Since the second semi-annual event in 2023 was inadvertently missed, groundwater will be sampled in June and December 2024. A single PRR will be submitted for the BCP Site.

5. Declaration/Limitation

Roux Environmental Engineering and Geology, D.P.C. personnel conducted the annual site inspection for BCP Site No. C905045, Olean, New York, according to generally accepted practices. This report complied with the scope of work provided to Homer Street Properties, LLC by Roux Environmental Engineering and Geology, D.P.C.

This report has been prepared for the exclusive use of Homer Street Properties, LLC. The contents of this report are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Homer Street Properties, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Roux Environmental Engineering and Geology, D.P.C.

6. References

1. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation.* May 2010.
2. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Action Work Plan (RAWP), Oregon Road Site, Olean, New York, BCP Site #C905045.* Revised September 2020.
3. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Site Management Plan, Oregon Road Site, Site Number: C905045, Olean, New York.* December 2021.
4. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Final Engineering Report, Oregon Road Site, BCP Site Number: C905045, Olean, New York.* Revised December 2021.

TABLES

1. Summary of Groundwater Analytical Data (2011-2023)
2. Summary of Groundwater Elevations

ROUX

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS [2]	Oregon Road Site																				
		MW-1		MW-2	MW-2R								MW-3		MW-4			MW-5				
		11/24/15	4/12/19	11/24/15	7/25/18	4/12/19	10/6/20	2/9/21	4/7/21	6/14/22	1/3/23	6/8/23	11/24/15	4/11/19	2/8/17	7/25/18	4/12/19	2/8/17	4/12/19	6/14/22	1/3/23	6/8/23
TCL Volatile Organic Compounds (VOCs) - ug/L																						
Acetone	**50**	7.0	NA	13 D	ND	NA	ND	ND	2.0 J	ND	ND	1.6 J	2.4 J	NA	ND	NA	NA	ND	NA	ND	ND	ND
Carbon disulfide	**60**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Cyclohexane	**--**	ND	NA	1.0 JD	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	1.8 J
Methylcyclohexane	**--**	ND	NA	68 D	0.49 J	NA	2.40 J	2.2 J	2.4 J	5.3 J	0.49 J	3.5 J	ND	NA	ND	NA	NA	ND	NA	ND	ND	0.84 J
Methylene Chloride	**5**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Trichloroethene	**5**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
VOC-TICs [3]	**--**	*NA*	*NA*	*NA*	*41*	*NA*	*NA*	*NA*	*NA*	*28 J*	*3.53 J*	*25.4 J*	*NA*	*NA*	*0.90*	*NA*	*NA*	*2.7*	*NA*	*ND*	*1.41 J*	*2.23 J*
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L																						
2-Methylnaphthalene	**--**	ND	NA	3.5 D	ND	NA	ND	ND	ND	ND	ND	0.04 J	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Acenaphthene	**20**	ND	NA	ND	ND	NA	ND	ND	ND	ND	0.05 J	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Acenaphthylene	**--**	ND	NA	ND	ND	NA	ND	ND	ND	ND	0.01 J	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	0.03 J
Acetophenone	**--**	ND	NA	ND	ND	NA	ND	ND	ND	1.6 J	ND	ND	ND	NA	ND	NA	NA	ND	NA	0.98 J	ND	ND
Anthracene	**50**	ND	NA	1.2 D	ND	NA	0.02 J	0.02 J	ND	ND	0.03 J	ND	0.05 J	NA	ND	NA	NA	ND	NA	ND	ND	0.03 J
Benzo(a)anthracene	**0.002**	ND	NA	ND	ND	NA	ND	ND	ND	ND	**0.04 J**	ND	**0.43**	NA	ND	NA	NA	ND	NA	ND	ND	**0.05 J**
Benzo(a)pyrene	**ND**	ND	NA	ND	ND	NA	ND	ND	ND	ND	0.03 J	ND	**0.26**	NA	ND	NA	NA	ND	NA	ND	ND	0.02 J
Benzo(b)fluoranthene	**0.002**	ND	NA	ND	ND	NA	ND	ND	ND	ND	**0.03 J**	ND	**0.39**	NA	ND	NA	NA	ND	NA	ND	ND	**0.02 J**
Benzo(g,h,i)perylene	**--**	ND	NA	ND	ND	NA	ND	ND	ND	ND	0.03 J	ND	0.16 J	NA	ND	NA	NA	ND	NA	ND	ND	0.02 J
Benzo(k)fluoranthene	**--**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	0.02 J
Caprolactam	**--**	ND	NA	ND	20	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Chrysene	**0.002**	ND	NA	ND	ND	NA	ND	ND	ND	ND	**0.05 J**	ND	**0.45**	NA	ND	NA	NA	ND	NA	ND	ND	ND
Dibenz(a,h)anthracene	**--**	ND	NA	ND	ND	NA	ND	ND	ND	ND	0.02 J	ND	0.09 J	NA	ND	NA	NA	ND	NA	ND	ND	ND
Di-n-butyl phthalate	**50**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Fluoranthene	**50**	ND	NA	ND	ND	NA	0.03 J	ND	ND	ND	ND	ND	0.24	NA	ND	NA	NA	ND	NA	ND	ND	0.04 J
Fluorene	**50**	ND	NA	ND	ND	NA	0.12	0.16	0.05 J	0.13	0.11	0.10	ND	NA	ND	NA	NA	ND	NA	ND	ND	0.05 J
Hexachlorobenzene	**0.04**	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Ideno(1,2,3-cd)pyrene	**0.002**	ND	NA	ND	ND	NA	ND	ND	ND	ND	**0.02 J**	ND	**0.15 J**	NA	ND	NA	NA	ND	NA	ND	ND	**0.02 J**
Naphthalene	**10**	ND	NA	ND	ND	NA	ND	0.07 J	ND	ND	ND	0.14	ND	NA	ND	NA	NA	ND	NA	ND	ND	0.07 J
Pentachlorophenol	**--**	ND	NA	ND	ND	NA	ND	ND	0.22 J	ND	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	ND	ND
Phenanthrene	**50**	ND	NA	3.7 D	ND	NA	0.06 J	0.12	ND	0.12	0.09 J	0.07 J	0.12 J	NA	ND	NA	NA	ND	NA	ND	ND	0.04 J
Pyrene	**50**	ND	NA	ND	ND	NA	0.02 J	ND	ND	ND	ND	ND	0.20	NA	ND	NA	NA	ND	NA	ND	ND	0.05 J
SVOC-TICs [3]	**--**	*NA*	*NA*	*NA*	*659*	*NA*	*ND*	*ND*	*ND*	*54 J*	*35 J*	*114 J*	*NA*	*NA*	*ND*	*ND*	*NA*	*ND*	*NA*	*8.8 J*	*43 J*	*197 J*
Semi-Volatile Organic Compounds 8270 (SIM) [4] - ug/L																						
1,4 - Dioxane	**0.35**	NA	NA	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	**2.5**	NA	NA	NA	NA	NA	NA
Perfluorinated Alkyl Acids - ng/L	***NYSDEC February 2023 Guidance [2]***																					
1H,1H,2H,2H-Perfluorodecanessulfonic Acid (8:2FTS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
1H,1H,2H,2H-Perfluorooctanesifonic Acid (6:2FTS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.3 J	ND	NA	ND	NA	NA	NA
Perfluorobutanoic acid (PFBA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	19	ND	NA	ND	NA	NA	NA
Perfluorosulfonic Acid (PFDS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	3.8	ND	NA	ND	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	0.40 JB	ND	NA	ND	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	3.5	ND	NA	ND	NA	NA	NA
Perfluorononanoic acid (PFNA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	**2.7**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.4 J	ND	NA	ND	NA	NA	NA
Perfluorooctanoic acid (PFOA)	**6.7**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	5.5 B	ND	NA	ND	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	6.2	ND	NA	ND	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Pefluorotridecanoic Acid (PFTriDA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA
Perfluoroundercanoic Acid (PFUnA)	**--**	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	NA	NA	NA

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS); PFOA and PFOS results are compared to NYSDEC February 2023 Guidance for groundwater of 2.7 and 6.7 ng/L, respectively.
3. Tentatively Identified Compounds (TICs).
4. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.

Definitions:
ug/L = micrograms per liter; ng/L = nanograms per liter
NA = Parameter not tested.
ND = Parameter not detected above laboratory detection limit.
"--" = No GWQS or action level available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analytical was detected in the associated blank as well as in the sample.
D = Analyzed at dilution
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
EMPC = the results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maxiumum Possible Concentration of the analyte in the sample.

= Result exceeds Class GA GWQS
= Per NYSDEC February 2023 guidance, result indicates PFOS/PFOA should be further assessed and considered as potential contaminants of concern in groundwater

ROUX

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS [2]	Oregon Road Site																					
		MW-6		MW-7					MW-8					MW-9								MW-10	
		2/7/17	4/11/19	2/9/17	4/12/19	6/14/22	1/3/23	6/8/23	2/9/17	4/11/19	6/14/22	1/3/23	6/8/23	2/9/17	4/12/19	10/6/20	2/9/21	4/7/21	6/14/22	1/3/23	6/8/23	2/7/17	4/11/19
TCL Volatile Organic Compounds (VOCs) - ug/L																							
Acetone	**50**	ND	NA	ND	NA	5.2	ND	ND	ND	NA	1.9 J	ND	2.8 J	ND	NA	ND	ND	8.9	ND	ND	ND	ND	NA
Carbon disulfide	**60**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Cyclohexane	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Methylcyclohexane	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Methylene Chloride	**5**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Trichloroethene	**5**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
VOC-TICs [3]	**--**	*0.36 J*	*NA*	*334*	*NA*	*ND*	*ND*	*ND*	*6.0*	*NA*	*ND*	*1.2 J*	*ND*	*50*	*NA*	*NA*	*ND*	*ND*	*ND*	*ND*	*ND*	*53*	*NA*
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L																							
2-Methylnaphthalene	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	0.05 J	ND	ND	ND	NA
Acenaphthene	**20**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Acenaphthylene	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Acetophenone	**--**	ND	NA	ND	NA	1.5 J	ND	ND	ND	NA	1.1 J	ND	ND	ND	NA	ND	ND	ND	2.1 J	ND	ND	ND	NA
Anthracene	**50**	ND	NA	ND	NA	0.02 J	ND	ND	ND	NA	ND	0.02 J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Benzo(a)anthracene	**0.002**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	**0.04 J**	ND	ND	NA	ND	**0.04 J**	ND	ND	**0.04 J**	ND	ND	NA
Benzo(a)pyrene	**ND**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.02 J	ND	ND	ND	ND	ND	NA
Benzo(b)fluoranthene	**0.002**	ND	NA	ND	NA	**0.01 J**	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	**0.02 J**	ND	ND	ND	ND	ND	NA
Benzo(g,h,i)perylene	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.02 J	ND	ND	ND	ND	ND	NA
Benzo(k)fluoranthene	**--**	ND	NA	ND	NA	0.01 J	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.02 J	ND	ND	ND	ND	ND	NA
Caprolactam	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Chrysene	**0.002**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	**0.03 J**	ND	ND	ND	ND	ND	NA
Dibenz(a,h)anthracene	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.000	ND	ND	ND	ND	ND	NA
Di-n-butyl phthalate	**50**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.02 J	ND	ND	ND	ND	ND	NA
Fluoranthene	**50**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.03 J	ND	0.03 J	ND	ND	ND	NA
Fluorene	**50**	ND	NA	ND	NA	0.02 J	ND	ND	ND	NA	0.02 J	0.01 J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Hexachlorobenzene	**0.04**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
Ideno(1,2,3-cd)pyrene	**0.002**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	**0.02 J**	ND	ND	ND	ND	ND	NA
Naphthalene	**10**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.05 J	ND	ND	ND	ND	ND	NA
Pentachlorophenol	**--**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	0.1 J	ND	ND	ND	ND	NA
Phenanthrene	**50**	ND	NA	ND	NA	0.02 J	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.06 J	ND	ND	ND	ND	ND	NA
Pyrene	**50**	ND	NA	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	0.03 J	ND	0.03 J	ND	ND	ND	NA
SVOC-TICs [3]	**--**	*ND*	*NA*	*8.4*	*NA*	*ND*	*15 J*	*61.9 J*	*7.9*	*NA*	*35 J*	*17 J*	*120 J*	*ND*	*NA*	*ND*	*ND*	*ND*	*41 J*	*6.2 J*	*302 J*	*ND*	*NA*
Semi-Volatile Organic Compounds 8270 (SIM) [4] - ug/L																							
1,4 - Dioxane	**0.35**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA
Perfluorinated Alkyl Acids - ng/L	***NYSDEC February 2023 Guidance [2]***																						
1H,1H,2H,2H-Perfluorodecanessulfonic Acid (8:2FTS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
1H,1H,2H,2H-Perfluorooctanesifonic Acid (6:2FTS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluorobutanesulfonic Acid (PFBS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	92
Perfluorobutanoic acid (PFBA)	**--**	NA	ND	NA	4.6 J	NA	NA	NA	NA	9.4	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	14
Perfluorosulfonic Acid (PFDS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluorodecanoic Acid (PFDA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluorododecanoic Acid (PFDoA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluoroheptanesulfonic Acid (PFHpS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluroroheptanoic acid (PFHpA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	22
Perfluorohexanesulfonic Acid (PFHxS)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	560
Perflurorohexanoic acid (PFHxA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	130
Perfluorononanoic acid (PFNA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluorooctane Sulfonamide (PFOSA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluorooctanesulfonic Acid (PFOS)	**2.7**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	**34**
Perfluorooctanoic acid (PFOA)	**6.7**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	**28**
Perfluoropentanoic acid (PFPeA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	25
Perfluorotetradecanoic acid (PFTeA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Pefluorotridecanoic Acid (PFTriDA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Perfluoroundercanoic Acid (PFUnA)	**--**	NA	ND	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS); PFOA and PFOS results are compared to NYSDEC February 2023 Guidance for groundwater of 2.7 and 6.7 ng/L, respectively.
3. Tentatively Identified Compounds (TICs).
4. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.

Definitions:

ug/L = micrograms per liter; ng/L = nanograms per liter
NA = Parameter not tested.
ND = Parameter not detected above laboratory detection limit.
"--" = No GWQS or action level available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analytical was detected in the associated blank as well as in the sample.
D = Analyzed at dilution
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
EMPC = the results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maxiumum Possible Concentration of the analyte in the sample.

= Result exceeds Class GA GWQS
= Per NYSDEC February 2023 guidance, result indicates PFOS/PFOA should be further assessed and considered as potential contaminants of concern in groundwater

ROUX

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

Parameter [1]	NYSDEC Class GA GWQS [2]	MW-11		MW-12						Homer Street Extension: MW-13					MW-15					Downgradient of Barrier: MW-16		
		2/7/17	4/11/19	2/7/17	7/25/18	3/4/19	6/14/22	1/3/23	6/8/23	7/25/18	3/4/19	6/14/22	1/3/23	6/8/23	7/25/18	4/11/19	6/14/22	1/3/23	6/8/23	6/14/22	1/3/23	6/8/23
TCL Volatile Organic Compounds (VOCs) - ug/L																						
Acetone	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	1.5 J	ND	NA	2.1 J	**230 J**	**230 D**	ND	ND	2.0 J
Carbon disulfide	**60**	ND	NA	ND	NA	NA	ND	ND	ND	1.1	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	3.0	NA	0.70 J	ND	1.5 J	ND	ND	ND
Methylcyclohexane	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	4.3	NA	0.77 J	ND	2.1 J	ND	ND	ND
Methylene Chloride	**5**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	2.1	NA	ND	ND	ND	ND	ND	ND
Trichloroethene	**5**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
VOC-TICs [3]	**--**	*0.38 J*	*NA*	*0.36 J*	*NA*	*NA*	*ND*	*ND*	*ND*	*ND*	*NA*	*ND*	*1.38 J*	*ND*	*ND*	*NA*	*4.1 J*	ND	*14.4*	*ND*	*ND*	*ND*
TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L																						
2-Methylnaphthalene	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Acenaphthene	**20**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Acenaphthylene	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Acetophenone	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	0.87 J	0.94 J	ND	ND	NA	1.1 J	ND	ND	ND	ND	ND
Anthracene	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	0.03 J	ND	ND	ND	ND	ND
Benzo(a)anthracene	**0.002**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	**0.06 J**	ND	NA	ND	**0.07 J**	ND	ND	**0.03 J**	ND
Benzo(a)pyrene	**ND**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	0.06 J	ND	NA	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	**0.002**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	**0.01 J**	**0.10 J**	ND	NA	ND	ND	ND	ND	**0.02 J**	ND
Benzo(g,h,i)perylene	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	0.09 J	ND	NA	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	0.09 J	ND	NA	ND	ND	ND	ND	0.01 J	ND
Caprolactam	**--**	ND	NA	ND	NA	NA	ND	ND	ND	11 J	NA	ND	ND	ND	59	NA	ND	ND	ND	ND	ND	ND
Chrysene	**0.002**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	**0.08 J**	ND	NA	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	0.10 J	ND	NA	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	**50**	ND	NA	ND	NA	NA	ND	ND	ND	1.8 J	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Fluoranthene	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	0.35 J	NA	ND	ND	ND	ND	ND	ND
Fluorene	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	0.03 J	ND	ND	ND	ND	ND
Hexachlorobenzene	**0.04**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	0.03 J	ND	ND	ND	ND	ND
Ideno(1,2,3-cd)pyrene	**0.002**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	**0.10 J**	ND	NA	ND	ND	ND	ND	ND	ND
Naphthalene	**10**	ND	NA	ND	NA	NA	ND	ND	0.08 J	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Pentachlorophenol	**--**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Phenanthrene	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Pyrene	**50**	ND	NA	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
SVOC-TICs [3]	**--**	*ND*	*NA*	*ND*	*NA*	*NA*	*52 J*	*6.6 J*	*50.3 J*	*3,946*	*NA*	*7.4 J*	*243 J*	*60.3 J*	*729*	*NA*	*37 J*	*44 J*	*249 J*	*21 J*	*10 J*	*25 J*
Semi-Volatile Organic Compounds 8270 (SIM) [4] - ug/L																						
1,4 - Dioxane	**0.35**	NA	NA	NA	**2.5**	ND	NA	NA	NA	ND	ND	NA	NA	NA	**2.5**	NA	NA	NA	NA	NA	NA	NA
Perfluorinated Alkyl Acids - ng/L	***NYSDEC February 2023 Guidance [2]***																					
1H,1H,2H,2H-Perfluorodecanessulfonic Acid (8:2FTS)	**--**	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	**--**	NA	ND	NA	ND	ND	ND	ND	ND	ND	0.42 J	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	**--**	NA	ND	NA	ND	4.74	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	**--**	NA	ND	NA	ND	4.65	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluorobutanesulfonic Acid (PFBS)	**--**	NA	5.5 J	NA	61	111 J	207	238	88.1	670	732 J	NA	NA	NA	3.0 J	2.5 J	NA	NA	NA	2.32 J	3.09	3.6 J
Perfluorobutanoic acid (PFBA)	**--**	NA	ND	NA	37	26.9	41.9	74	22.5	200	182	NA	NA	NA	120	25	NA	NA	NA	6.51	8.99	8.8 J
Perfluorosulfonic Acid (PFDS)	**--**	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluorodecanoic Acid (PFDA)	**--**	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluorododecanoic Acid (PFDoA)	**--**	NA	ND	NA	ND	0.629 J	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluoroheptanesulfonic Acid (PFHpS)	**--**	NA	ND	NA	18	31.4	10.4	11.6	8.22	4.4 J	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	1.37 J	2.4 J
Perfluoroheptanoic acid (PFHpA)	**--**	NA	ND	NA	17	29.3	42.7	49.3	19.4	180	119	NA	NA	NA	1.8 J	ND	NA	NA	NA	0.855 J	1.12 J	2.00 J
Perfluorohexanesulfonic Acid (PFHxS)	**--**	NA	40	NA	520 B	784	757	629	320	1,100 B	847	NA	NA	NA	2.4 JB	ND	NA	NA	NA	15.9 J	32.6	40
Perfluorohexanoic acid (PFHxA)	**--**	NA	ND	NA	96	171	270	393	124	1,900	1,520	NA	NA	NA	ND	ND	NA	NA	NA	4.63	5.84	9.6
Perfluorononanoic acid (PFNA)	**--**	NA	ND	NA	0.47 J	0.729 J	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluorooctane Sulfonamide (PFOSA)	**--**	NA	ND	NA	ND	ND		ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	**2.7**	NA	**12**	NA	**510**	**1,020**	**222**	**239**	**216**	3.5 J	ND	NA	NA	NA	1.6 J	ND	NA	NA	NA	**21.8**	**35.9**	**34.0**
Perfluorooctanoic acid (PFOA)	**6.7**	NA	2.6 J	NA	**25 B**	**48.8**	**42.8**	**50.3**	**29.7**	**100 B**	**45.9**	NA	NA	NA	2.0 JB	ND	NA	NA	NA	0.816 EMPC	1.88	3.6 J
Perfluoropentanoic acid (PFPeA)	**--**	NA	ND	NA	15	35.8	70.2	108	37.4	250	321	NA	NA	NA	ND	ND	NA	NA	NA	2.11	3.38	4.8 J
Perfluorotetradecanoic acid (PFTeA)	**--**	NA	ND	NA	ND	1.04 J	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Pefluorotridecanoic Acid (PFTriDA)	**--**	NA	ND	NA	ND	0.671 J	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND
Perfluoroundercanoic Acid (PFUnA)	**--**	NA	ND	NA	0.25 J	0.479 J	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS); PFOA and PFOS results are compared to NYSDEC February 2023 Guidance for groundwater of 2.7 and 6.7 ng/L, respectively.
3. Tentatively Identified Compounds (TICs).
4. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.

Definitions:
ug/L = micrograms per liter; ng/L = nanograms per liter
NA = Parameter not tested.
ND = Parameter not detected above laboratory detection limit.
"--" = No GWQS or action level available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analytical was detected in the associated blank as well as in the sample.
D = Analyzed at dilution
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
EMPC = the results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maxiumum Possible Concentration of the analyte in the sample.

= Result exceeds Class GA GWQS
= Per NYSDEC February 2023 guidance, result indicates PFOS/PFOA should be further assessed and considered as potential contaminants of concern in groundwater

ROUX

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS

OREGON ROAD SITE
BCP SITE NO C905045
OLEAN, NEW YORK

Location[1]	TOR Elevation[2] (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)	DTW (fbTOR)	Groundwater Elevation (ft)
		2/8/17		8/2/18		4/12/19		10/22/20		11/18/20		1/26/21		2/11/21		3/4/21		4/14/21		8/3/21		6/14/22		1/3/23		6/8/23	
MW-2R	1441.52	NM	NM	6.45	1435.07	6.76	1434.76	5.76	1435.76	NM	NM	6.94	1434.58	6.95	1434.57	5.95	1435.57	6.06	1435.46	6.11	1435.41	5.90	1435.62	6.05	1435.47	6.50	1435.02
MW-4	1469.48	6.59	1462.89	6.70	1462.78	6.04	1463.44	9.18	1460.30	7.61	1461.87	7.26	1462.22	7.49	1461.99	6.52	1462.96	6.77	1462.71	5.32	1464.16	5.50	1463.98	7.06	1462.42	8.88	1460.60
MW-5	1432.01	11.15	1420.86	14.10	1417.91	12.66	1419.35	16.87	1415.14	15.91	1416.10	13.81	1418.20	14.89	1417.12	14.12	1417.89	13.50	1418.51	12.65	1419.36	12.32	1419.69	13.35	1418.66	14.56	1417.45
MW-6	1456.65	9.35	1447.30	11.10	1445.55	8.96	1447.69	12.89	1443.76	8.41	1448.24	10.22	1446.43	11.05	1445.60	7.31	1449.34	3.44	1453.21	5.58	1451.07	6.60	1450.05	4.43	1452.22	9.69	1446.96
MW-7	1462.56	10.00	1452.56	13.40	1449.16	9.75	1452.81	11.39	1451.17	NM	NM	11.51	1451.05	12.86	1449.70	11.36	1451.20	13.53	1449.03	10.72	1451.84	10.30	1452.26	10.25	1452.31	11.38	1451.18
MW-8	1445.49	5.21	1440.28	5.61	1439.88	5.31	1440.18	9.96	1435.53	4.90	1440.59	5.41	1440.08	5.57	1439.92	5.22	1440.27	2.39	1443.10	1.22	1444.27	0.90	1444.59	1.65	1443.84	2.40	1443.09
MW-9	1444.09	6.02	1438.07	6.20	1437.89	5.80	1438.29	6.89	1437.20	5.78	1438.31	5.82	1438.27	5.91	1438.18	5.38	1438.71	5.61	1438.48	5.75	1438.34	5.50	1438.59	5.25	1438.84	5.76	1438.33
MW-10	1439.02	7.97	1431.05	8.20	1430.82	8.10	1430.92	13.29	1425.73	12.31	1426.71	11.97	1427.05	12.37	1426.65	12.31	1426.71	11.85	1427.17	12.34	1426.68	11.45	1427.57	11.75	1427.27	11.03	1427.99
MW-11	1436.17	5.66	1430.51	6.45	1429.72	6.03	1430.14	10.68	1425.49	10.41	1425.76	NM	NM	NM	NM	9.72	1426.45	9.51	1426.66	9.96	1426.21	9.16	1427.01	9.07	1427.10	9.15	1427.02
MW-12	1431.77	13.69	1418.08	16.55	1415.22	14.55	1417.22	NM	NM	18.50	1413.27	16.63	1415.14	17.50	1414.27	16.95	1414.82	16.15	1415.62	15.25	1416.52	15.28	1416.49	15.80	1415.97	17.19	1414.58
MW-13	1445.77	NM	NM	11.15	1434.62	4.15	1441.62	9.75	1436.02	9.05	1436.72	7.62	1438.15	8.20	1437.57	8.01	1437.76	6.27	1439.50	4.00	1441.77	2.18	1443.59	8.06	1437.71	2.59	1443.18
MW-15	1433.21	NM	NM	16.15	1417.06	14.20	1419.01	17.80	1415.41	17.99	1415.22	16.01	1417.20	17.22	1415.99	16.58	1416.63	15.84	1417.37	15.16	1418.05	14.96	1418.25	15.61	1417.60	16.88	1416.33
MW-16	1427.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.15	1416.50	11.20	1416.45	11.75	1415.90	13.15	1414.50

Notes:

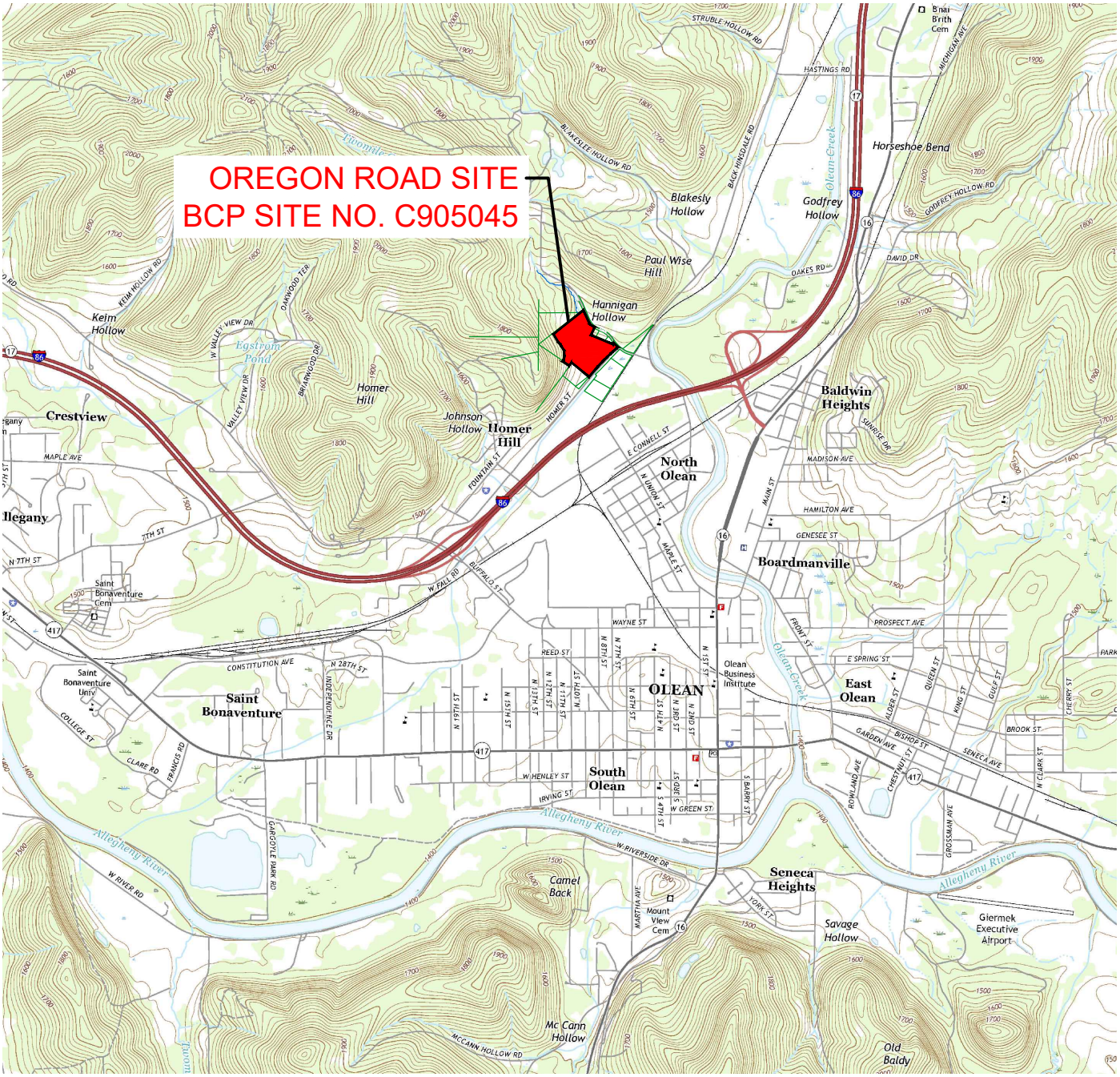
1. Wells MW-2R, MW-13, & MW-15 were installed in July 2018. Well MW-16 was installed July 2021. All other existing wells installed in January and February 2017.
2. Elevations are referenced to NGVD 88.

Acronyms:

fbTOR = Feet below top of riser
DTW = Depth to water
NM = Not measured

FIGURES

1. Site Location and Vicinity Map
2. Site Plan (Pre-Remediation)
3. Site Plan (Post-Redevelopment)
4. Tax Map
5. Groundwater Isopotential Map (June 2023)
6. Site Cover System



QUADRANGLE LOCATION

Title: **SITE LOCATION AND VICINITY MAP**

PERIODIC REVIEW REPORT

OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

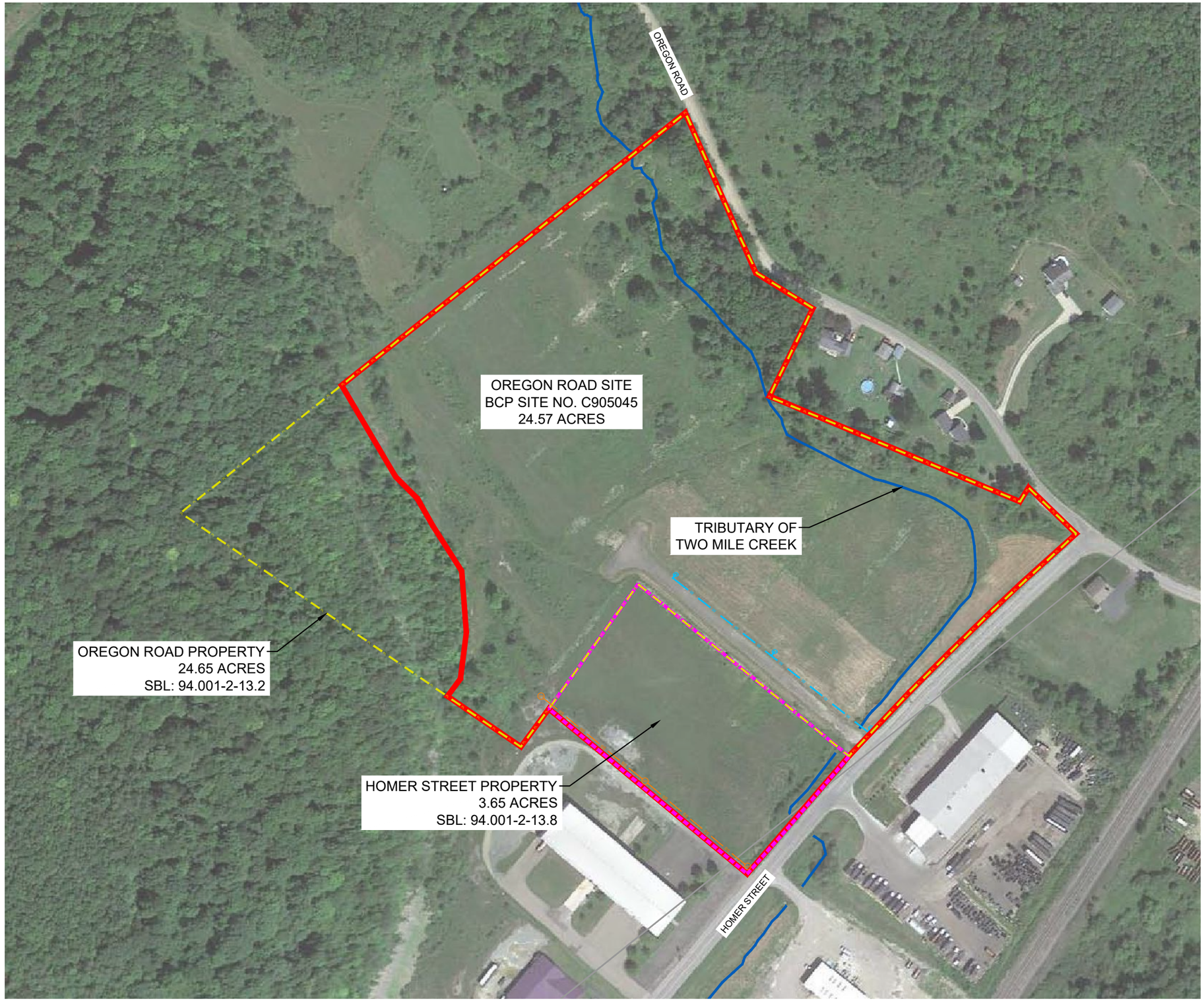
Prepared for:

HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024	FIGURE
Prepared by: CMS-CMC	Scale: AS SHOWN	1
Project Mgr: LER	Project:	
File: FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG		

F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG



LEGEND:

- BCP SITE BOUNDARY
- OREGON ROAD PROPERTY BOUNDARY
- HOMER STREET EXTENSION PROPERTY BOUNDARY
- CITY OF OLEAN CORPORATE BOUNDARY
- SANITARY PIPELINE
- SANITARY MANHOLE
- FIRE MAIN
- FIRE HYDRANT

N

200' 0 200'

Title:

SITE PLAN (AERIAL)
PRE-REMEDIAL ACTION

PERIODIC REVIEW REPORT

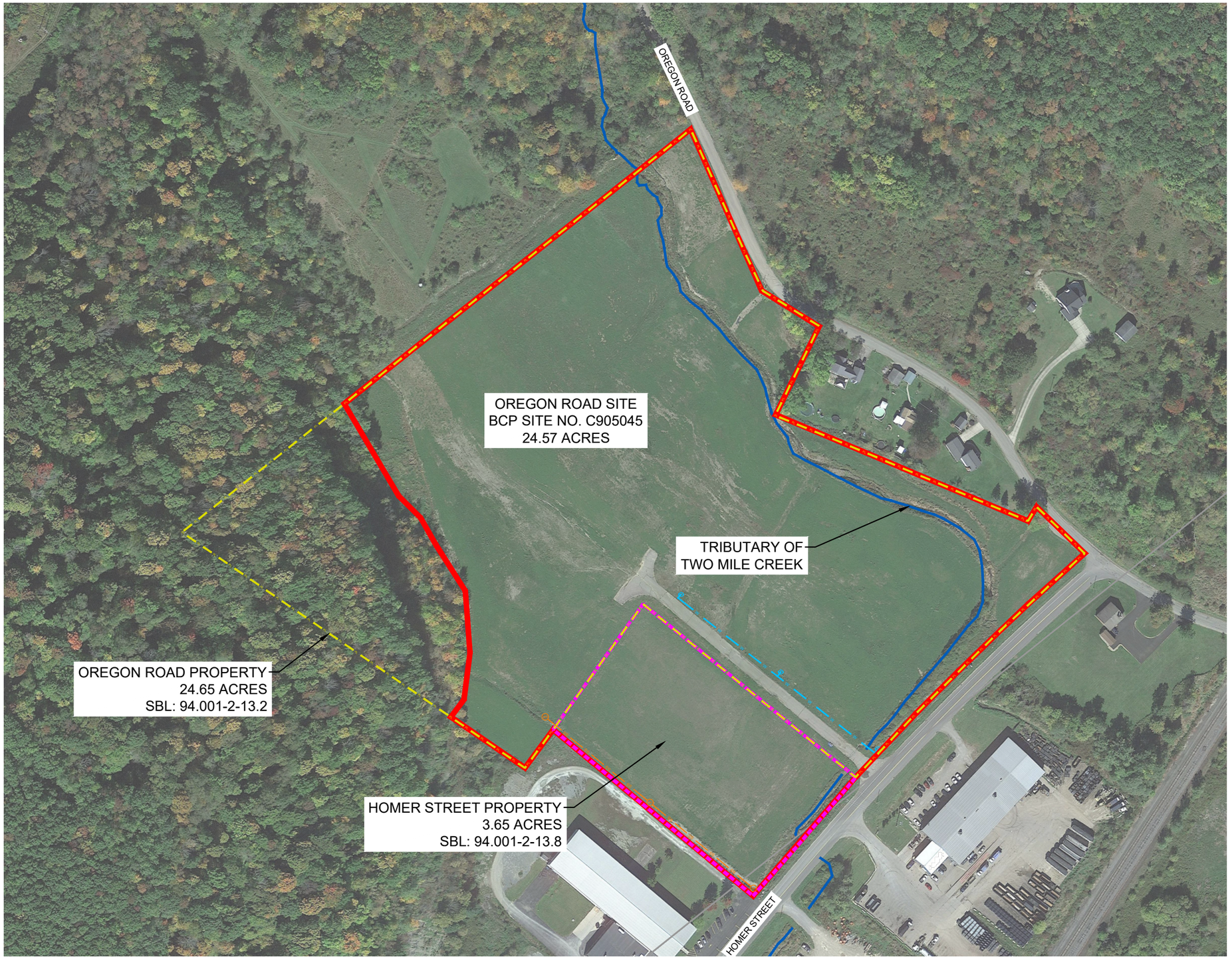
OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

Prepared for:
HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024	FIGURE
Prepared by: CMS-CMC	Scale: AS SHOWN	2
Project Mgr: LER	Project:	
File: FIGURE 2; SITE PLAN (AERIAL)_PRE-REMEDIATION.DWG		

F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 2; SITE PLAN (AERIAL)_PRE-REMEDIATION.DWG



LEGEND:

- BCP SITE BOUNDARY
- OREGON ROAD PROPERTY BOUNDARY
- HOMER STREET EXTENSION PROPERTY BOUNDARY
- CITY OF OLEAN CORPORATE BOUNDARY
- SANITARY PIPELINE
- SANITARY MANHOLE
- FIRE MAIN
- FIRE HYDRANT

N

200' 0 200'

Title:

SITE PLAN (AERIAL)
POST REMEDIAL ACTION

PERIODIC REVIEW REPORT

OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

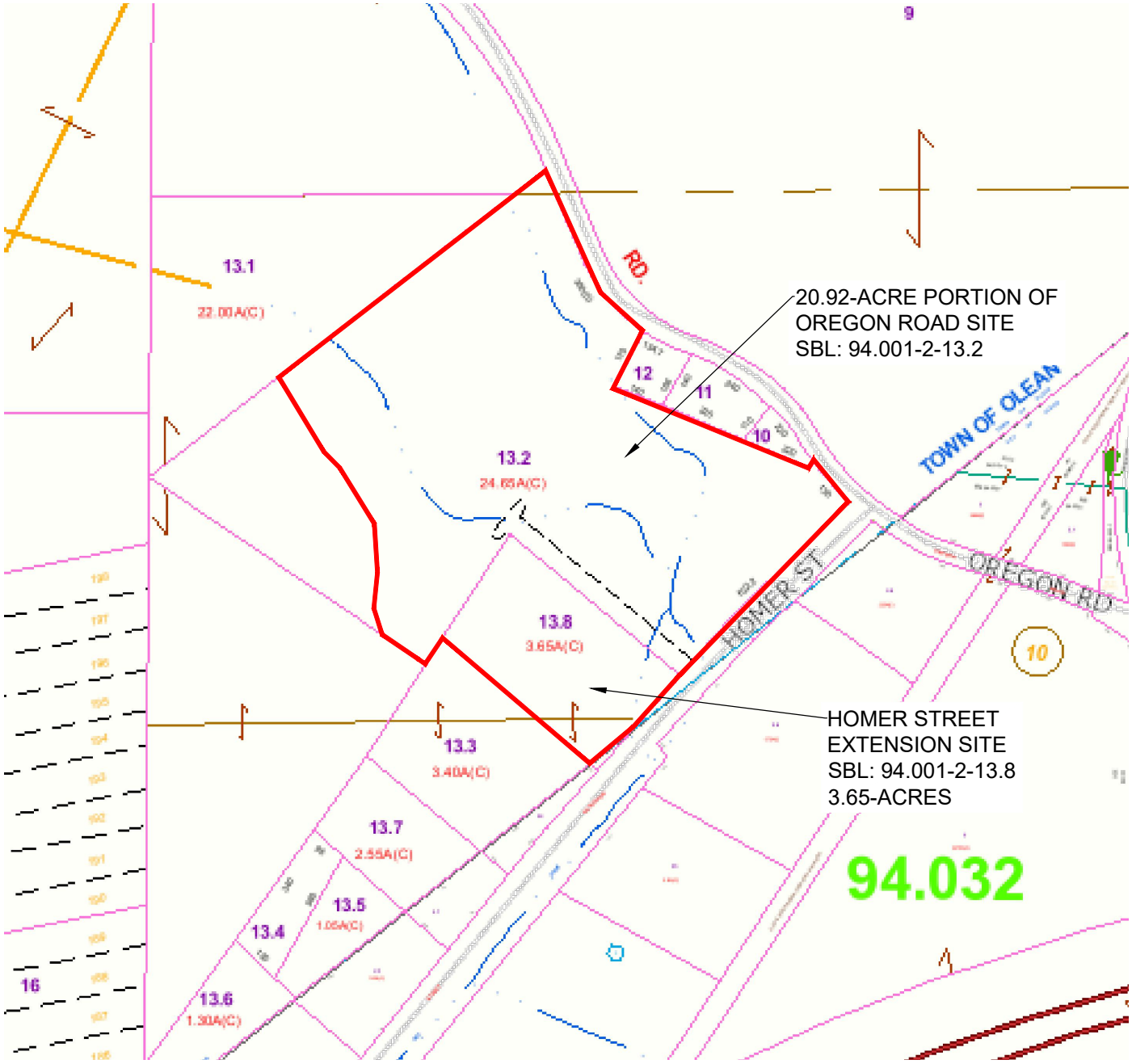
Prepared for:

HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024	FIGURE
Prepared by: CMS-CMC	Scale: AS SHOWN	
Project Mgr: LER	Project:	3
File: FIGURE 3; SITE PLAN (AERIAL)_POST-REMEDIATION.DWG		

F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 3; SITE PLAN (AERIAL)_POST-REMEDIATION.DWG



LEGEND:

BCP SITE BOUNDARY

N

400' 0 400'

Title:

TAX MAP

PERIODIC REVIEW REPORT

OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

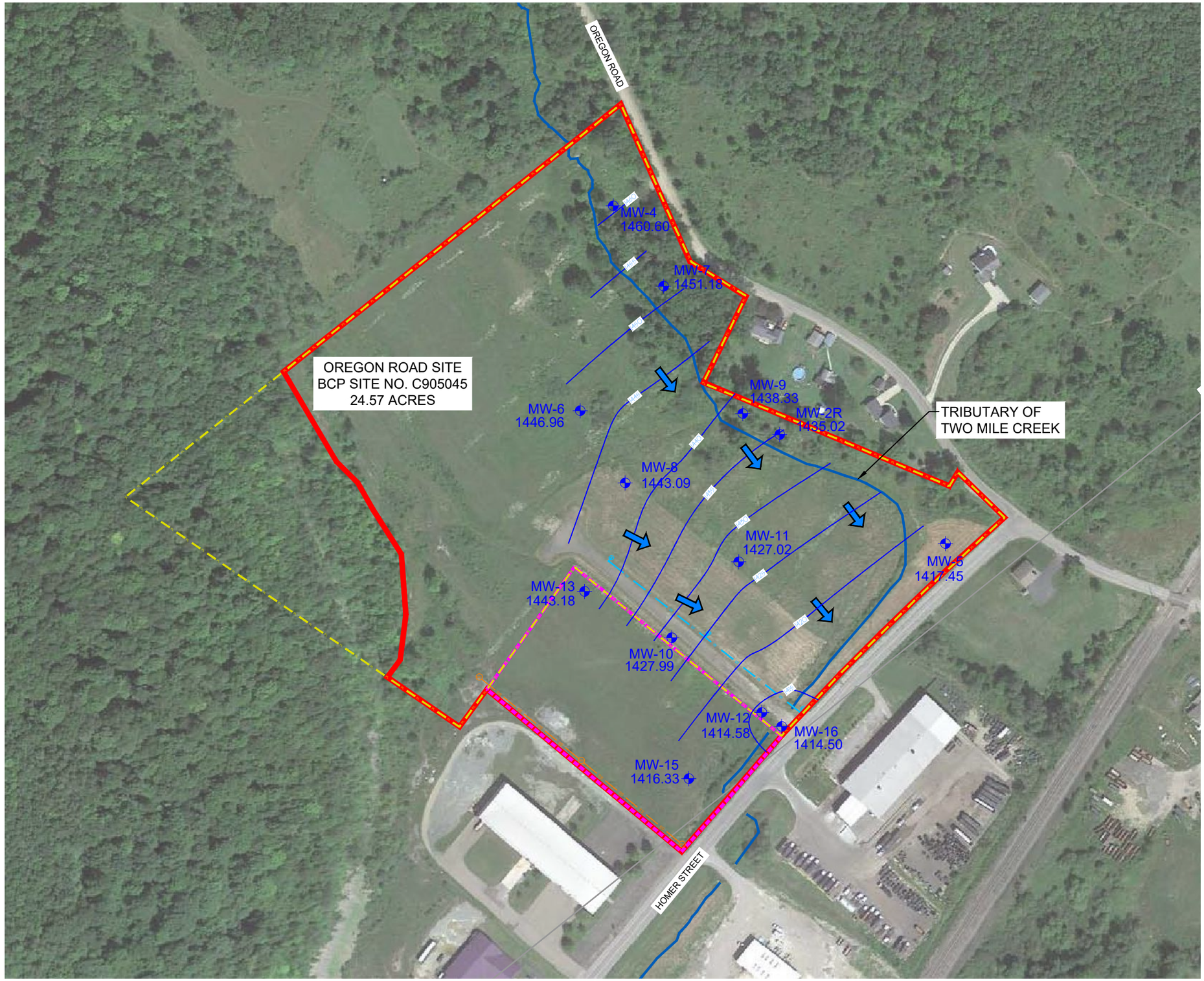
Prepared for:

HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024	FIGURE
Prepared by: CCB-CMC	Scale: AS SHOWN	4
Project Mgr: LER	Project:	
File: FIGURE 4; TAX MAP.DWG		

F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 4; TAX MAP.DWG



LEGEND:

- BCP SITE BOUNDARY
- CITY OF OLEAN CORPORATE BOUNDARY
- SANITARY PIPELINE
- SANITARY MANHOLE
- FIRE MAIN
- FIRE HYDRANT
- MW-5 1417.45 — RI MONITORING WELL LOCATION (GW ELEVATIONS ARE REFERENCED TO NGVD 88)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

N

200' 0 200'

Title:
GROUNDWATER ISOPOTENTIAL MAP JUNE 2023

PERIODIC REVIEW REPORT

OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

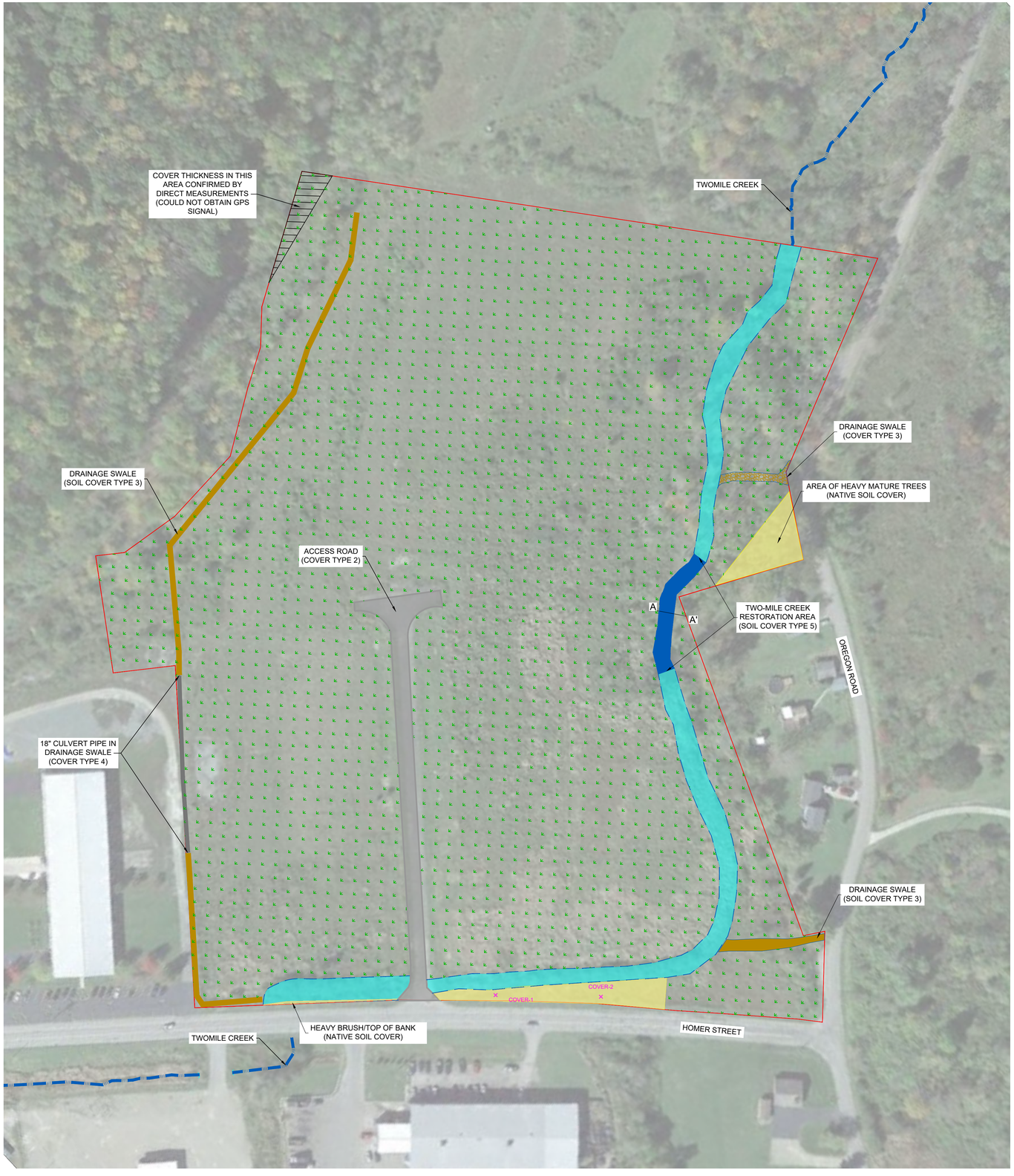
Prepared for:
HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024	FIGURE
Prepared by: CMC	Scale: AS SHOWN	5
Project Mgr: LER	Project:	
File: FIGURE 5; GROUNDWATER ISOPOTENTIAL MAP_2024-06.DWG		

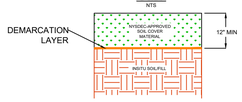
F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 5; GROUNDWATER ISOPOTENTIAL MAP_2024-06.DWG

F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2024 PRR\Figure 5; Groundwater Isopotential Map_2024-06.dwg, 7/18/2024 4:01:39 PM,
DWG To PDF.pc3



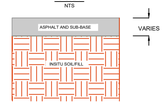
COVER TYPE 1

VEGETATED SOIL COVER SYSTEM DETAIL
NTS

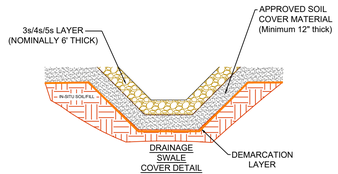


COVER TYPE 2

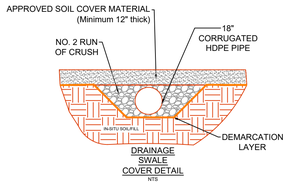
EXISTING ASPHALT COVER SYSTEM DETAIL
NTS



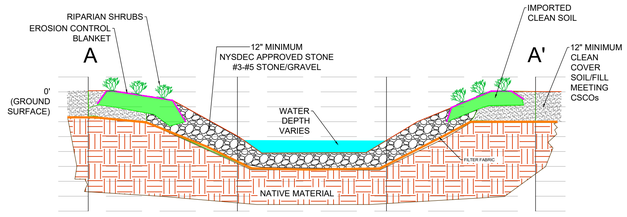
COVER TYPE 3



COVER TYPE 4



COVER TYPE 5



NOTE: TRIBUTARY WIDTH VARIES ALONG LENGTH OF RESTORATION AREA

LEGEND:

- BCP SITE BOUNDARY
- DRAINAGE SWALE
- VEGETATED COVER SYSTEM (COVER TYPE 1)
- EXISTING ACCESS ROAD ASPHALT COVER SYSTEM (COVER TYPE 2)
- DRAINAGE SWALE (COVER TYPE 3)
- CULVERT IN DRAINAGE SWALE (COVER TYPE 4)
- TWO-MILE CREEK RESTORATION AREA (COVER TYPE 5)
- EXISTING UPPER 1' OF SOILS MEETING CSCO
- LIMITS OF TWO MILE CREEK ON SITE
- COVER-1 ✕ COVER SOIL SAMPLE LOCATION

NOTES:
1. ALL IMPORTED SOIL MEETS UNRESTRICTED SOIL CLEANUP OBJECTIVES (USCOs) AND PROTECTION OF ECOLOGICAL RESOURCES SCOs (PERSCOs).

N

80' 0 80'

Title:

SITE COVER SYSTEM

PERIODIC REVIEW REPORT

OREGON ROAD SITE (BCP SITE NO. C905045)
OLEAN, NEW YORK

Prepared for:
HOMER STREET PROPERTIES, LLC

ROUX

Compiled by:	Date: MAY 2024
Prepared by: CMS-CMC	Scale: AS SHOWN
Project Mgr: LER	Project:
File: FIGURE 6; SITE COVER SYSTEM.DWG	

6

F:\CAD\TURNKEY\HOMER STREET PROPERTIES, LLC\OREGON ROAD\2024 PRR\FIGURE 6; SITE COVER SYSTEM.DWG

APPENDICES

A. IC/EC Certification Form

B. Site Photographic Log

C. Groundwater Sampling Field Forms, Analytical Data, and DUSR

APPENDIX A

IC/EC Certification Form

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

Site Details **Box 1**

Site No. **C905045**

Site Name Oregon Road Site

Site Address: Oregon Road and Homer Street Extension Zip Code: 14760
City/Town: Olean
County: Cattaraugus
Site Acreage: 24.570

Reporting Period: April 17, 2023 to April 17, 2024

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X	☐
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	X	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

	YES	NO
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

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

SITE NO. C905045 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
94.001-2-13.2 (portion of)	Homer Street Properties, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- require compliance with the Department approved Site Management Plan.

94.001-2-13.8	Homer Street Properties, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- require compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
94.001-2-13.2 (portion of)	Groundwater Treatment System Cover System Monitoring Wells

- A site cover will be required to allow for commercial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs), except in areas proximate to Two Mile Creek where cover material must meet the protection of ecological resources SCOs;
- In-Situ Groundwater Treatment Wall consisting of activated carbon (or other proprietary compounds) will be added to the subsurface to capture and prevent the migration of PFAS compounds in groundwater; and
- Monitoring of groundwater using monitoring wells to ensure that the remedy remains protective of human health and the environment.

94.001-2-13.8	Groundwater Treatment System Cover System Monitoring Wells

- A site cover will be required to allow for commercial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs), except in areas proximate to Two Mile Creek where cover material must meet the protection of ecological resources SCOs;
- In-Situ Groundwater Treatment Wall consisting of activated carbon (or other proprietary compounds) will be added to the subsurface to capture and prevent the migration of PFAS compounds in groundwater; and
- Monitoring of groundwater using monitoring wells to ensure that the remedy remains protective of human health and the environment.

Box 5

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 compete.

YES	NO
X	☐

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
X	☐

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. C905045

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 Don Benson (print name) at 130 South Union Street, Suite 300, Olean, NY 14760 (print business address),

am certifying as Owner (Owner or Remedial Party)

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

R. Donald Benson

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

05/14/2024
Date

IC CERTIFICATIONS
SITE NO. C905045

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 John Stitt (print name) at 1116 East State Street, Olean, NY 14760 (print business address),

am certifying as Owner, State and Union, LLC (Owner or Remedial Party)

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

John Stitt John Stitt 5/14/24

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

EC CERTIFICATIONS
SITE NO. C905045

Box 7

Professional Engineer 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 Lori E. Riker, P.E. (print name) at Roux Environmental Engineering and Geology, D.P.C. 2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218 (print business address),

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

Lori Riker — 5/14/24

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

APPENDIX B

Site Photographic Log

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Site Inspection (March 8, 2024)

Photo 1: View of vegetative growth and Two-Mile Creek (looking west)

Photo 2: View of vegetative growth and Two-Mile Creek (looking east)

Photo 3: View of asphalt access road (looking north)

Photo 4: View of vegetative cover system in southeast portion of the Site (looking northwest)

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Site Inspection (March 8, 2024)

Photo 5: View of vegetative cover system in southwest portion of the Site (looking northeast)

Photo 6: View of vegetative cover in central portion of the Site (looking north)

Photo 7: View of Two-Mile Creek with rip rap cover (looking south)

Photo 8: View of Two-Mile Creek in northeast corner of the site (looking South)

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Site Inspection (March 8, 2024)

Photo 9: View of drainage swale in northeast portion of the Site (looking east)

Photo 10: View of vegetative cover along north boundary of the Site (looking south)

Photo 11: View of vegetative cover in northwest portion of the site (looking southeast)

Photo 12: View of drainage swale along western boundary (looking north)

APPENDIX C

Groundwater Sampling Field Forms, Analytical Data, and DUSR

GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date: 6-8-23

Location: Olean, NY | Project No.: 0311-022-001 | Field Team: CEH

Well No. MW-2R			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1445			
Product Depth (fbTOR):			Water Column (ft): 11.68			DTW when sampled: 10.00			
DTW (static) (fbTOR): 6.50			One Well Volume (gal): 1.90			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 18.18'			Total Volume Purged (gal): 9.50			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1337	0 Initial	0.00	6.72	12.5	600.3	130	1.68	8	clear, no odor
1344	1 10.39	2.00	6.73	11.1	639.6	843	2.02	-20	Turbid, SL Petrol odor
1349	2 12.60	4.00	6.75	10.5	622.0	>1000	2.22	-31	" " "
1354	3 14.68	6.00	6.75	10.3	622.1	>1000	1.92	-35	" " "
1400	4 15.75	8.00	6.74	11.3	618.6	>1000	2.33	-39	" " "
1408	5 Dry	9.50							
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1445	S1 10.00	9.50	6.71	11.2	596.9	68.2	6.66	-24	Clear, SL Petrol odor
1453	S2 10.39	9.50	6.76	11.6	597.6	57.7	7.17	8	" " "

Well No. MW-5			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1600			
Product Depth (fbTOR):			Water Column (ft): 3.81			DTW when sampled: 14.89			
DTW (static) (fbTOR): 14.56			One Well Volume (gal): 0.62			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 18.37'			Total Volume Purged (gal): 3.50			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1535	0 Initial	0.00	6.53	11.4	539.3	37.4	1.38	37	clear, no odor
1537	1 15.35	0.75	6.29	10.9	575.8	119	1.88	24	SL Turbid, no odor
1539	2 15.67	1.5	6.31	10.8	550.7	71.9	1.81	11	clear, " "
1543	3 15.95	2.25	6.29	10.6	563.5	128	1.83	4	SL Turbid, " "
1546	4 16.27	3.00	6.31	10.6	561.8	681	3.02	-3	Turbid, " "
1549	5 Dry	3.50							
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1600	S1 14.89	3.50	6.32	11.1	547.3	203	1.52	-10	SL Turbid, no odor
1606	S2 15.31	3.50	6.32	11.0	552.7	>1000	2.63	-13	Turbid, " "

REMARKS: MW-4 DTW: 8.88
MW-6 DTW: 9.69
MW-10 DTW: 11.03
MW-11 DTW: 9.15
Field blank @ 1030

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date:

Location: Olean, NY | Project No.: 0311-022-001 | Field Team: CEH

Well No. MW-7			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1650			
Product Depth (fbTOR):			Water Column (ft): 8.35			DTW when sampled: 14.90			
DTW (static) (fbTOR): 11.38			One Well Volume (gal): 1.36			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 19.73'			Total Volume Purged (gal): 2.50			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1620	0 Initial	0.00	6.20	11.5	329.5	156	1.40	-7	SL Turbid, no odor
1626	1 17.70	1.50	5.79	11.8	337.8	>1000	2.46	19	Turbid, no odor
1632	2 Dry	2.50							
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1650	S1 14.90	2.50	5.81	11.0	379.0	149	2.43	76	SL Turbid, no odor
1703	S2 15.18	2.50	5.77	10.3	376.9	171	3.52	85	" " "

Well No. MW-8			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1305			
Product Depth (fbTOR):			Water Column (ft): 15.7			DTW when sampled: 9.98			
DTW (static) (fbTOR): 2.40			One Well Volume (gal): 2.56			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 18.10'			Total Volume Purged (gal): 5.25			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1215	0 Initial	0.00	6.55	13.8	990.8	172	1.77	-16	SL Turbid, SL Petrol odor
1221	1 12.80	2.75	6.49	11.2	1039	>1000	1.36	-45	Turbid, " " "
1228	2 Dry	5.25							
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1305	S1 9.98	5.25	6.62	11.7	932.2	189	5.88	46	SL Turbid, SL Petrol odor
1312	S2 8.61	5.25	6.47	11.5	989.3	212	2.67	5	" " " " "

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date:

Location: Olean, NY | Project No.: 0311-022-001 | Field Team: CEH

Well No. MW-9			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1500			
Product Depth (fbTOR):			Water Column (ft): 11.31			DTW when sampled: 6.01			
DTW (static) (fbTOR): 5.76			One Well Volume (gal): 1.84			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 17.07'			Total Volume Purged (gal): 11.00			Purge Method: ~~submersible~~ Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1415	0 Initial	0.00	6.71	12.1	438.4	192	1.41	-46	SL Turbid, no odor
1419	1 ~~9.39~~	2.00	6.70	11.5	487.3	125	1.89	-41	" " "
1424	2 10.35	4.00	6.64	11.2	455.2	575	2.18	-37	" " "
1429	3 12.33	6.00	6.67	10.9	444.7	>1000	2.28	-36	Turbid, no odor
1435	4 12.81	8.00	6.68	10.8	448.3	>1000	3.34	-35	" " "
1440	5 Dry	11.00							
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1500	S1 6.01	11.00	6.75	12.3	461.3	37.5	5.86	13	Clear, no odor
1507	S2 6.32	11.00	6.66	12.4	454.5	76.1	5.86	20	" " "

Well No. MW-12			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1055			
Product Depth (fbTOR):			Water Column (ft): 2.18			DTW when sampled: 17.25			
DTW (static) (fbTOR): 17.19			One Well Volume (gal): 0.36			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 19.37'			Total Volume Purged (gal): 2.50			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1040	0 Initial	0.00	6.42	12.0	701.4	>1000	2.15	2	Turbid, no odor
1044	1 17.23	0.50	6.37	11.9	629.8	526	1.62	-18	" " "
1048	2 17.26	1.00	6.43	11.4	666.1	339	1.74	2	" " "
1051	3 17.20	1.50	6.46	11.6	650.7	229	1.63	9	" " "
1053	4 17.24	2.00	6.48	11.5	670.0	102	1.64	12	Clear, no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1055	S1 17.25	2.50	6.48	11.2	660.5	96	1.54	20	Clear, no odor
1113	S2 17.20	2.50	6.56	13.2	682.8	76.8	1.76	45	" " "

REMARKS: Took BD with MW-12

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date:

Location: Olean, NY | Project No.: 0311-022-001 | Field Team: CEH

Well No. MW-13			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1240			
Product Depth (fbTOR):			Water Column (ft): 17.8			DTW when sampled: 13.88			
DTW (static) (fbTOR): 2.59			One Well Volume (gal): 2.9			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 20.39'			Total Volume Purged (gal): 5.50			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1152	0 Initial	0.00	7.34	16.8	477.3	52.8	2.10	-90	Clear, no odor
1158	1 13.62	3.00	7.51	12.1	463.8	445	1.78	-105	Turbid, no odor
1204	2 Dry	5.50							
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1240	S1 13.88	5.50	7.34	12.1	464.8	297	6.78	-51	SL Turbid, no odor
1245	S2 14.96	5.50	7.46	11.7	466.8	302	7.07	-52	" " " "

Well No. MW-15			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1145			
Product Depth (fbTOR):			Water Column (ft): 1.19			DTW when sampled: 17.00			
DTW (static) (fbTOR): 16.88			One Well Volume (gal): 0.19			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 18.07'			Total Volume Purged (gal): 0.25			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1126	0 Initial	0.00	6.55	12.4	727.1	32.3	1.49	57	Clear, no odor
1130	1 Dry	0.25							
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1145	S1 17.00	0.25	6.51	12.0	775.3	61	1.35	-48	Clear, no odor
1150	S2 Dry	0.25							

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date: 6-8-23

Location: Olean, NY | Project No.: 0311-022-001 | Field Team: CEH

Well No. MW-16			Diameter (inches): 2"			Sample Date / Time: 6-8-23 / 1000			
Product Depth (fbTOR):			Water Column (ft): 6.97			DTW when sampled: 13.53			
DTW (static) (fbTOR): 13.15			One Well Volume (gal): 1.14			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 20.12'			Total Volume Purged (gal): 6.25			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0945	0 Initial	0.00	6.51	12.4	1352	531	3.91	55	Turbid, no odor
0950	1 13.36	1.25	6.68	11.3	1229	>1000	2.39	9	" " "
0953	2 13.42	2.50	6.64	10.9	962.4	>1000	1.97	2	" " "
0956	3 13.44	3.75	6.64	10.8	960.2	>1000	2.16	0	" " "
0958	4 13.40	5.00	6.64	10.9	1003	>1000	2.23	5	" " "
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1000	S1 13.53	6.25	6.71	11.3	989.3	>1000	2.50	6	Turbid, no odor
1025	S2 13.23	6.25	6.70	12.1	861.1	>1000	2.44	23	" " "

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS: Took MS/MSD with MW-16

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

nKey Environmental Restoration, LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: **Oregon Street Site**

Date: 6-8-23

Project No.:

Client:

Instrument Source: [X] BM [ ] Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
[X] pH meter	units	0930	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [X]	CEH	4.00 7.00 10.01	3.94 7.04 9.95	
[X] Turbidity meter	NTU	0930	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) [ ] 13120C030432 (Q) [ ]	CEH	< 0.4 or 10 for 2100 Q 20 100 800	 20.6 104 805	
[ ] Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) [ ]		0.0 NTU 1.0 NTU 10.0 NTU		
[X] Sp. Cond. meter	uS mS	0930	Myron L Company Ultra Meter 6P	6213516 [ ] 6243084 [ ] 6212375 [ ] 6223973 [X]	CEH	7000 mS @ 25 °C	6993	
[ ] PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
[X] Dissolved Oxygen	ppm	0930	HACH Model HQ30d	080700023281 [ ] 100500041867 [ ] 1402000100319 [X]	CEH	100% Satuartion	100% 97.2% Sicple	
[ ] Particulate meter	mg/m^3					zero air		
[ ] Oxygen	%					open air		
[ ] Hydrogen sulfide	ppm					open air		
[ ] Carbon monoxide	ppm					open air		
[ ] LEL	%					open air		
[ ] Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **DATE:**

ANALYTICAL REPORT

Lab Number:	L2332697
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Lori Riker
Phone:	(716) 856-0599
Project Name:	OREGON ROAD
Project Number:	0311-022-001
Report Date:	07/10/23

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: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2332697-01	MW-2R	WATER	OLEAN, NY	06/08/23 14:45	06/09/23
L2332697-02	MW-5	WATER	OLEAN, NY	06/08/23 16:00	06/09/23
L2332697-03	MW-7	WATER	OLEAN, NY	06/08/23 16:50	06/09/23
L2332697-04	MW-8	WATER	OLEAN, NY	06/08/23 13:05	06/09/23
L2332697-05	MW-9	WATER	OLEAN, NY	06/08/23 15:00	06/09/23
L2332697-06	MW-12	WATER	OLEAN, NY	06/08/23 10:55	06/09/23
L2332697-07	MW-13	WATER	OLEAN, NY	06/08/23 12:40	06/09/23
L2332697-08	MW-15	WATER	OLEAN, NY	06/08/23 11:45	06/09/23
L2332697-09	MW-16	WATER	OLEAN, NY	06/08/23 10:00	06/09/23
L2332697-10	BLIND DUP	WATER	OLEAN, NY	06/08/23 08:00	06/09/23
L2332697-11	FIELD BLANK	WATER	OLEAN, NY	06/08/23 10:30	06/09/23
L2332697-12	TRIP BLANK	WATER	OLEAN, NY	06/08/23 00:00	06/09/23

Project Name:	OREGON ROAD	**Lab Number:**	L2332697
Project Number:	0311-022-001	**Report Date:**	07/10/23

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Case Narrative (continued)

Report Submission

July 10, 2023: This final report includes the results of all requested analyses.

June 26, 2023: This is a preliminary report.

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

Perfluorinated Alkyl Acids by 1633

L2332697-06 and -10: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2332697-09RE: The sample was re-extracted within holding time due to QC failures in the original extraction. The results of the re-extraction are reported.

L2332697-09RE: The sample has elevated detection limits due to the limited sample volume utilized during re-extraction, as required by the sample matrix.

WG1798926-2 and WG1798926-3: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

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 Stenstrom

Title: Technical Director/Representative Date: 07/10/23

ORGANICS

VOLATILES

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/08/23 14:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 21:24
Analyst: MKS

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01 Date Collected: 06/08/23 14:45

Client ID: MW-2R Date Received: 06/09/23

Sample Location: OLEAN, 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	1.6	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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	3.5	J	ug/l	10	0.40	1

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 06/08/23 14:45
Date Received: 06/09/23
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	25.4	J	ug/l			1
Unknown Cyclohexane	1.80	J	ug/l			1
Unknown Aromatic	2.01	J	ug/l			1
Unknown Cyclohexane	4.58	J	ug/l			1
Cyclopentane, 1,1,2-trimethyl-	1.75	NJ	ug/l			1
Unknown Cyclohexane	4.03	J	ug/l			1
Unknown Aromatic	2.39	J	ug/l			1
Unknown Naphthalene	2.00	J	ug/l			1
Unknown Cyclohexane	2.95	J	ug/l			1
Unknown Benzene	1.77	J	ug/l			1
Unknown Benzene	2.08	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 21:47
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:00
Date Received: 06/09/23
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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	1.8	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.84	J	ug/l	10	0.40	1

Tentatively Identified Compounds

Total TIC Compounds	2.23	J	ug/l	1
Unknown Cyclohexane	1.16	J	ug/l	1
Butane, 2,3-Dimethyl-	1.07	NJ	ug/l	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02 Date Collected: 06/08/23 16:00

Client ID: MW-5 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:50
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 22:10
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:50
Date Received: 06/09/23
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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03 Date Collected: 06/08/23 16:50

Client ID: MW-7 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/08/23 13:05
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 22:33
Analyst: MKS

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04 Date Collected: 06/08/23 13:05

Client ID: MW-8 Date Received: 06/09/23

Sample Location: OLEAN, 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	2.8	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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04 Date Collected: 06/08/23 13:05

Client ID: MW-8 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/08/23 15:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 22:56
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY
Date Collected: 06/08/23 15:00
Date Received: 06/09/23
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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05 Date Collected: 06/08/23 15:00

Client ID: MW-9 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	113		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:55
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 23:20
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY
Date Collected: 06/08/23 10:55
Date Received: 06/09/23
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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06 Date Collected: 06/08/23 10:55

Client ID: MW-12 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	113		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/08/23 12:40
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 23:43
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07
Client ID: MW-13
Sample Location: OLEAN, NY
Date Collected: 06/08/23 12:40
Date Received: 06/09/23
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	1.5	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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07 Date Collected: 06/08/23 12:40

Client ID: MW-13 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	115		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/08/23 11:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/20/23 00:06
Analyst: MKS

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08 Date Collected: 06/08/23 11:45

Client ID: MW-15 Date Received: 06/09/23

Sample Location: OLEAN, 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	640	E	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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	1.5	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	2.1	J	ug/l	10	0.40	1

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY
Date Collected: 06/08/23 11:45
Date Received: 06/09/23
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	14.4	J	ug/l			1
Unknown Cyclohexane	1.80	J	ug/l			1
Unknown Cyclohexane	1.59	J	ug/l			1
Unknown Cycloalkane	1.09	J	ug/l			1
Cyclohexane, 1,1-dimethyl-	2.58	NJ	ug/l			1
Pentane, 3-methyl-	1.20	NJ	ug/l			1
Unknown Cycloalkane	1.11	J	ug/l			1
Pentane, 2,3-dimethyl-	1.14	NJ	ug/l			1
Unknown Cycloalkane	1.46	J	ug/l			1
Cyclopentane, Methyl-	1.32	NJ	ug/l			1
Unknown Cyclohexane	1.08	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08 D
Client ID: MW-15
Sample Location: OLEAN, NY
Date Collected: 06/08/23 11:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/22/23 12:32
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	230		ug/l	50	15.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	95		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/20/23 00:29
Analyst: MKS

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 Date Collected: 06/08/23 10:00

Client ID: MW-16 Date Received: 06/09/23

Sample Location: OLEAN, 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	2.0	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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 Date Collected: 06/08/23 10:00

Client ID: MW-16 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	116		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

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

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/20/23 00:53
Analyst: MKS

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/08/23 08:00
Date Received: 06/09/23
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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10 Date Collected: 06/08/23 08:00

Client ID: BLIND DUP Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	112		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-12
Client ID: TRIP BLANK
Sample Location: OLEAN, NY

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

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/19/23 21:01
Analyst: MKS

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-12 Date Collected: 06/08/23 00:00

Client ID: TRIP BLANK Date Received: 06/09/23

Sample Location: OLEAN, 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
Bromochloromethane	ND		ug/l	2.5	0.70	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
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
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	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

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-12 Date Collected: 06/08/23 00:00

Client ID: TRIP BLANK Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	114		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/19/23 20:37
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1794315-5					
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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/19/23 20:37
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1794315-5					
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
Bromochloromethane	ND		ug/l	2.5	0.70
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
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
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/19/23 20:37
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1794315-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	112		70-130

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/22/23 10:47
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1795162-5					
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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/22/23 10:47
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1795162-5					
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
Bromochloromethane	ND		ug/l	2.5	0.70
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
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
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/22/23 10:47
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1795162-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1794315-3 WG1794315-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	95		93		70-130	2		20
Dibromochloromethane	98		97		63-130	1		20
1,1,2-Trichloroethane	96		97		70-130	1		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	95		94		70-130	1		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	95		94		67-130	1		20
trans-1,3-Dichloropropene	90		89		70-130	1		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
Bromoform	92		91		54-136	1		20
1,1,2,2-Tetrachloroethane	86		87		67-130	1		20
Benzene	100		99		70-130	1		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	78		77		64-130	1		20
Bromomethane	84		80		39-139	5		20
Vinyl chloride	100		98		55-140	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1794315-3 WG1794315-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	90		91		63-130	1		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	90		89		36-147	1		20
Acetone	60		**57**	Q	58-148	5		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	68		68		63-138	0		20
4-Methyl-2-pentanone	70		72		59-130	3		20
2-Hexanone	65		67		57-130	3		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	97		98		70-130	1		20
n-Butylbenzene	100		98		53-136	2		20
sec-Butylbenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	80		81		41-144	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1794315-3 WG1794315-4								
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	96		95		70-130	1		20
1,2,4-Trichlorobenzene	98		97		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Methyl Acetate	71		70		70-130	1		20
Cyclohexane	100		99		70-130	1		20
1,4-Dioxane	84		82		56-162	2		20
Freon-113	120		120		70-130	0		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	110		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1795162-3 WG1795162-4								
Methylene chloride	91		90		70-130	1		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	96		94		63-132	2		20
1,2-Dichloropropane	90		90		70-130	0		20
Dibromochloromethane	91		90		63-130	1		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	98		97		75-130	1		20
Trichlorofluoromethane	92		91		62-150	1		20
1,2-Dichloroethane	86		85		70-130	1		20
1,1,1-Trichloroethane	97		96		67-130	1		20
Bromodichloromethane	86		85		67-130	1		20
trans-1,3-Dichloropropene	88		86		70-130	2		20
cis-1,3-Dichloropropene	88		87		70-130	1		20
Bromoform	85		84		54-136	1		20
1,1,2,2-Tetrachloroethane	88		89		67-130	1		20
Benzene	96		94		70-130	2		20
Toluene	100		98		70-130	2		20
Ethylbenzene	99		96		70-130	3		20
Chloromethane	74		74		64-130	0		20
Bromomethane	59		57		39-139	3		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1795162-3 WG1795162-4								
Chloroethane	90		87		55-138	3		20
1,1-Dichloroethene	98		97		61-145	1		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Trichloroethene	96		95		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	85		85		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	96		93		70-130	3		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	81		74		58-148	9		20
Carbon disulfide	96		92		51-130	4		20
2-Butanone	74		72		63-138	3		20
4-Methyl-2-pentanone	80		79		59-130	1		20
2-Hexanone	74		71		57-130	4		20
Bromochloromethane	99		96		70-130	3		20
1,2-Dibromoethane	96		94		70-130	2		20
n-Butylbenzene	98		93		53-136	5		20
sec-Butylbenzene	99		95		70-130	4		20
1,2-Dibromo-3-chloropropane	80		82		41-144	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1795162-3 WG1795162-4								
Isopropylbenzene	99		97		70-130	2		20
p-Isopropyltoluene	99		95		70-130	4		20
n-Propylbenzene	97		94		69-130	3		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20
1,2,4-Trichlorobenzene	98		97		70-130	1		20
1,3,5-Trimethylbenzene	98		96		64-130	2		20
1,2,4-Trimethylbenzene	98		95		70-130	3		20
Methyl Acetate	73		72		70-130	1		20
Cyclohexane	98		95		70-130	3		20
1,4-Dioxane	86		84		56-162	2		20
Freon-113	100		99		70-130	1		20
Methyl cyclohexane	100		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		85		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

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): 01-10,12 QC Batch ID: WG1794315-6 WG1794315-7 QC Sample: L2332697-09 Client ID: MW-16												
Methylene chloride	ND	10	9.7	97		10	100		70-130	3		20
1,1-Dichloroethane	ND	10	10	100		11	110		70-130	10		20
Chloroform	ND	10	10	100		11	110		70-130	10		20
Carbon tetrachloride	ND	10	11	110		12	120		63-132	9		20
1,2-Dichloropropane	ND	10	9.2	92		9.9	99		70-130	7		20
Dibromochloromethane	ND	10	9.2	92		10	100		63-130	8		20
1,1,2-Trichloroethane	ND	10	9.1	91		10	100		70-130	9		20
Tetrachloroethene	ND	10	12	120		12	120		70-130	0		20
Chlorobenzene	ND	10	10	100		11	110		75-130	10		20
Trichlorofluoromethane	ND	10	11	110		12	120		62-150	9		20
1,2-Dichloroethane	ND	10	9.4	94		10	100		70-130	6		20
1,1,1-Trichloroethane	ND	10	11	110		12	120		67-130	9		20
Bromodichloromethane	ND	10	9.3	93		10	100		67-130	7		20
trans-1,3-Dichloropropene	ND	10	8.2	82		9.0	90		70-130	9		20
cis-1,3-Dichloropropene	ND	10	8.6	86		9.4	94		70-130	9		20
Bromoform	ND	10	8.6	86		9.5	95		54-136	10		20
1,1,2,2-Tetrachloroethane	ND	10	8.4	84		9.3	93		67-130	10		20
Benzene	ND	10	9.8	98		10	100		70-130	2		20
Toluene	ND	10	10	100		11	110		70-130	10		20
Ethylbenzene	ND	10	10	100		11	110		70-130	10		20
Chloromethane	ND	10	7.7	77		8.4	84		64-130	9		20
Bromomethane	ND	10	5.4	54		7.0	70		39-139	**26**	Q	20
Vinyl chloride	ND	10	10	100		11	110		55-140	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

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): 01-10,12 QC Batch ID: WG1794315-6 WG1794315-7 QC Sample: L2332697-09 Client ID: MW-16												
Chloroethane	ND	10	10	100		12	120		55-138	18		20
1,1-Dichloroethene	ND	10	11	110		12	120		61-145	9		20
trans-1,2-Dichloroethene	ND	10	11	110		12	120		70-130	9		20
Trichloroethene	ND	10	10	100		11	110		70-130	10		20
1,2-Dichlorobenzene	ND	10	9.5	95		10	100		70-130	5		20
1,3-Dichlorobenzene	ND	10	9.7	97		10	100		70-130	3		20
1,4-Dichlorobenzene	ND	10	9.5	95		10	100		70-130	5		20
Methyl tert butyl ether	ND	10	9.0	90		9.6	96		63-130	6		20
p/m-Xylene	ND	20	21	105		23	115		70-130	9		20
o-Xylene	ND	20	21	105		23	115		70-130	9		20
cis-1,2-Dichloroethene	ND	10	10	100		11	110		70-130	10		20
Styrene	ND	20	20	100		22	110		70-130	10		20
Dichlorodifluoromethane	ND	10	8.6	86		9.2	92		36-147	7		20
Acetone	2.0J	10	6.9	69		7.2	72		58-148	4		20
Carbon disulfide	ND	10	10	100		11	110		51-130	10		20
2-Butanone	ND	10	6.9	69		7.5	75		63-138	8		20
4-Methyl-2-pentanone	ND	10	7.0	70		7.7	77		59-130	10		20
2-Hexanone	ND	10	6.7	67		7.5	75		57-130	11		20
Bromochloromethane	ND	10	11	110		12	120		70-130	9		20
1,2-Dibromoethane	ND	10	9.3	93		10	100		70-130	7		20
n-Butylbenzene	ND	10	8.8	88		9.5	95		53-136	8		20
sec-Butylbenzene	ND	10	9.8	98		11	110		70-130	12		20
1,2-Dibromo-3-chloropropane	ND	10	7.5	75		8.7	87		41-144	15		20

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

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): 01-10,12 QC Batch ID: WG1794315-6 WG1794315-7 QC Sample: L2332697-09 Client ID: MW-16												
Isopropylbenzene	ND	10	9.8	98		11	110		70-130	12		20
p-Isopropyltoluene	ND	10	9.9	99		11	110		70-130	11		20
n-Propylbenzene	ND	10	9.5	95		10	100		69-130	5		20
1,2,3-Trichlorobenzene	ND	10	8.1	81		9.4	94		70-130	15		20
1,2,4-Trichlorobenzene	ND	10	8.5	85		9.5	95		70-130	11		20
1,3,5-Trimethylbenzene	ND	10	9.8	98		10	100		64-130	2		20
1,2,4-Trimethylbenzene	ND	10	9.4	94		10	100		70-130	6		20
Methyl Acetate	ND	10	6.8	**68**	Q	7.4	74		70-130	8		20
Cyclohexane	ND	10	9.8J	98		11	110		70-130	12		20
1,4-Dioxane	ND	500	440	88		470	94		56-162	7		20
Freon-113	ND	10	11	110		12	120		70-130	9		20
Methyl cyclohexane	ND	10	10	100		11	110		70-130	10		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	112		112		70-130
Toluene-d8	105		104		70-130

SEMIVOLATILES

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/08/23 14:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/17/23 19:55
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01 Date Collected: 06/08/23 14:45

Client ID: MW-2R Date Received: 06/09/23

Sample Location: OLEAN, 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	114	J	ug/l			1
Unknown	2.62	J	ug/l			1
Unknown Organic Acid	40.0	J	ug/l			1
Unknown	14.4	J	ug/l			1
Unknown Organic Acid	25.3	J	ug/l			1
Unknown Organic Acid	15.3	J	ug/l			1
Unknown	4.51	J	ug/l			1
Unknown	1.71	J	ug/l			1
Unknown	1.45	J	ug/l			1
Unknown	1.82	J	ug/l			1
Unknown	1.93	J	ug/l			1
Unknown Naphthalene	2.18	J	ug/l			1
Unknown	2.65	J	ug/l			1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01 Date Collected: 06/08/23 14:45

Client ID: MW-2R Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	89		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/08/23 14:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 10:34
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:09

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	0.14		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	0.10		ug/l	0.10	0.01	1
Phenanthrene	0.07	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	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 06/08/23 14:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	**139**	Q	10-120
4-Terphenyl-d14	97		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/17/23 20:17
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:00
Date Received: 06/09/23
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

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	197	J	ug/l			1
Unknown	5.45	J	ug/l			1
Unknown	14.5	J	ug/l			1
Unknown	6.80	J	ug/l			1
Unknown	10.4	J	ug/l			1
Unknown Organic Acid	34.9	J	ug/l			1
Unknown Organic Acid	22.9	J	ug/l			1
Unknown Organic Acid	33.1	J	ug/l			1
Unknown	5.71	J	ug/l			1
Unknown	4.76	J	ug/l			1
Unknown	12.1	J	ug/l			1
Unknown	22.2	J	ug/l			1
Unknown	6.62	J	ug/l			1
Unknown	4.44	J	ug/l			1
Unknown	4.44	J	ug/l			1
Unknown	8.87	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	83		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 13:41
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:09

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	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.04	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	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.05	J	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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-02 Date Collected: 06/08/23 16:00

Client ID: MW-5 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	**134**	Q	10-120
4-Terphenyl-d14	100		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:50
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/17/23 20:40
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:50
Date Received: 06/09/23
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	61.9	J	ug/l		1
Unknown	13.7	J	ug/l		1
Unknown Organic Acid	14.1	J	ug/l		1
Unknown Organic Acid	8.62	J	ug/l		1
Unknown	3.71	J	ug/l		1
Unknown Organic Acid	11.5	J	ug/l		1
Unknown	2.18	J	ug/l		1
Unknown	8.07	J	ug/l		1

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:50
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	84		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/08/23 16:50
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 13:57
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-03
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 06/08/23 16:50
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	**134**	Q	10-120
4-Terphenyl-d14	96		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/08/23 13:05
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/17/23 21:03
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04
Client ID: MW-8
Sample Location: OLEAN, NY
Date Collected: 06/08/23 13:05
Date Received: 06/09/23
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	120	J	ug/l			1
Unknown Alcohol	12.9	J	ug/l			1
Unknown	3.05	J	ug/l			1
Unknown Organic Acid	24.1	J	ug/l			1
Unknown Organic Acid	25.4	J	ug/l			1
Unknown	1.60	J	ug/l			1
Unknown	1.45	J	ug/l			1
Unknown	2.14	J	ug/l			1
Unknown Organic Acid	43.8	J	ug/l			1
Cyclic Octaatomic Sulfur	5.56	NJ	ug/l			1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04 Date Collected: 06/08/23 13:05

Client ID: MW-8 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	114		10-120
4-Terphenyl-d14	88		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/08/23 13:05
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 14:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-04
Client ID: MW-8
Sample Location: OLEAN, NY
Date Collected: 06/08/23 13:05
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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	90		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	**143**	Q	10-120
4-Terphenyl-d14	101		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/08/23 15:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/17/23 21:25
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05 Date Collected: 06/08/23 15:00

Client ID: MW-9 Date Received: 06/09/23

Sample Location: OLEAN, 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

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY
Date Collected: 06/08/23 15:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	302	J	ug/l			1
Unknown Ketone	3.20	J	ug/l			1
Unknown Organic Acid	37.6	J	ug/l			1
Unknown	5.09	J	ug/l			1
Unknown	7.53	J	ug/l			1
Unknown Organic Acid	50.4	J	ug/l			1
Unknown	7.16	J	ug/l			1
Unknown	3.31	J	ug/l			1
Cyclic Octaatomic Sulfur	6.80	NJ	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	12.5	J	ug/l			1
Unknown	1.78	J	ug/l			1
Unknown	2.04	J	ug/l			1
Unknown	5.09	J	ug/l			1
Unknown	2.73	J	ug/l			1
Unknown Organic Acid	154	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	85		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/08/23 15:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 14:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-05
Client ID: MW-9
Sample Location: OLEAN, NY
Date Collected: 06/08/23 15:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	118		10-120
4-Terphenyl-d14	95		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:55
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/21/23 02:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06 Date Collected: 06/08/23 10:55

Client ID: MW-12 Date Received: 06/09/23

Sample Location: OLEAN, 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	50.3	J	ug/l			1
Unknown	11.0	J	ug/l			1
Unknown Organic Acid	3.34	J	ug/l			1
Unknown Organic Acid	7.67	J	ug/l			1
Unknown Organic Acid	2.94	J	ug/l			1
Unknown	4.04	J	ug/l			1
Unknown	4.98	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	2.80	J	ug/l			1
Unknown Organic Acid	10.1	J	ug/l			1
Unknown Organic Acid	1.89	J	ug/l			1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06 Date Collected: 06/08/23 10:55

Client ID: MW-12 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	63		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:55
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 14:48
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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	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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY
Date Collected: 06/08/23 10:55
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	**121**	Q	10-120
4-Terphenyl-d14	82		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:55
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 07/03/23 23:19
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	22.5		ng/l	6.03	0.965	1
Perfluoropentanoic Acid (PFPeA)	37.4		ng/l	3.02	0.807	1
Perfluorobutanesulfonic Acid (PFBS)	88.1		ng/l	1.51	0.505	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.03	1.58	1
Perfluorohexanoic Acid (PFHxA)	124		ng/l	1.51	0.445	1
Perfluoropentanesulfonic Acid (PFPeS)	76.2		ng/l	1.51	0.264	1
Perfluoroheptanoic Acid (PFHpA)	19.4		ng/l	1.51	0.302	1
Perfluorohexanesulfonic Acid (PFHxS)	320		ng/l	1.51	0.362	1
Perfluorooctanoic Acid (PFOA)	29.7		ng/l	1.51	0.656	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.03	2.04	1
Perfluoroheptanesulfonic Acid (PFHpS)	8.22		ng/l	1.51	0.407	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.51	0.475	1
Perfluorooctanesulfonic Acid (PFOS)	216		ng/l	1.51	0.686	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.51	0.611	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.03	2.34	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.51	0.467	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.51	0.822	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.51	0.656	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.51	0.347	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.51	0.407	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.51	0.814	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.51	0.694	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.51	0.565	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.51	0.400	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.03	0.844	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.03	0.950	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.51	0.573	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06 Date Collected: 06/08/23 10:55

Client ID: MW-12 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.03	1.24	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.03	1.24	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.51	0.656	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.51	0.694	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.1	3.54	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.1	1.85	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.02	0.430	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.02	0.400	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.02	0.332	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.02	1.78	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.54	2.49	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.7	8.82	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.7	5.95	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-06 Date Collected: 06/08/23 10:55

Client ID: MW-12 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	92		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	65		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**167**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	74		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	106		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	80		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	**154**	Q	20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	121		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	59		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	81		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	54		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	79		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	69		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	117		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	58		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	57		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	68		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/08/23 12:40
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/21/23 02:27
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07
Client ID: MW-13
Sample Location: OLEAN, NY
Date Collected: 06/08/23 12:40
Date Received: 06/09/23
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	60.3	J	ug/l	1
Unknown	1.93	J	ug/l	1
Unknown Organic Acid	4.84	J	ug/l	1
Unknown Organic Acid	18.0	J	ug/l	1
Unknown	2.33	J	ug/l	1
Unknown Siloxane	2.22	J	ug/l	1
Unknown	4.94	J	ug/l	1
Unknown Organic Acid	5.82	J	ug/l	1
Unknown	1.85	J	ug/l	1
Unknown	14.2	J	ug/l	1
Unknown	1.49	J	ug/l	1
Unknown	2.65	J	ug/l	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07 Date Collected: 06/08/23 12:40

Client ID: MW-13 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	64		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/08/23 12:40
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 15:05
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.10	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.09	J	ug/l	0.10	0.01	1
Chrysene	0.08	J	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	0.09	J	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	0.10	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.10	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	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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-07 Date Collected: 06/08/23 12:40

Client ID: MW-13 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	**121**	Q	10-120
4-Terphenyl-d14	91		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/08/23 11:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/21/23 02:50
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY
Date Collected: 06/08/23 11:45
Date Received: 06/09/23
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

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY
Date Collected: 06/08/23 11:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	249	J	ug/l			1
Unknown Alkane	10.2	J	ug/l			1
Unknown Ketone	4.40	J	ug/l			1
Unknown	4.84	J	ug/l			1
Unknown	5.78	J	ug/l			1
Unknown	14.6	J	ug/l			1
Unknown	4.47	J	ug/l			1
Unknown	13.3	J	ug/l			1
Unknown Alkane	10.3	J	ug/l			1
Unknown	13.6	J	ug/l			1
Unknown Ketone	7.74	J	ug/l			1
Unknown Organic Acid	87.2	J	ug/l			1
Unknown Alkane	4.44	J	ug/l			1
Unknown Organic Acid	37.5	J	ug/l			1
Unknown	5.49	J	ug/l			1
Unknown Organic Acid	24.9	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	62		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/08/23 11:45
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 15:22
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-08 Date Collected: 06/08/23 11:45

Client ID: MW-15 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	**137**	Q	10-120
4-Terphenyl-d14	101		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/14/23 20:26
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09
Client ID: MW-16
Sample Location: OLEAN, NY
Date Collected: 06/08/23 10:00
Date Received: 06/09/23
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	25.4	J	ug/l		1
Unknown	2.04	J	ug/l		1
Unknown Organic Acid	2.29	J	ug/l		1
Unknown	1.67	J	ug/l		1
Unknown Organic Acid	2.98	J	ug/l		1
Unknown	2.51	J	ug/l		1
Unknown	12.2	J	ug/l		1
Unknown Organic Acid	1.71	J	ug/l		1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 Date Collected: 06/08/23 10:00

Client ID: MW-16 Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	61		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/14/23 18:26
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09
Client ID: MW-16
Sample Location: OLEAN, NY
Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	80		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 RE
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 07/07/23 12:05
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/06/23 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	8.80	J	ng/l	32.0	5.12	1
Perfluoropentanoic Acid (PFPeA)	4.80	J	ng/l	16.0	4.28	1
Perfluorobutanesulfonic Acid (PFBS)	3.60	J	ng/l	8.00	2.68	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	32.0	8.36	1
Perfluorohexanoic Acid (PFHxA)	9.60		ng/l	8.00	2.36	1
Perfluoropentanesulfonic Acid (PFPeS)	4.40	J	ng/l	8.00	1.40	1
Perfluoroheptanoic Acid (PFHpA)	2.00	J	ng/l	8.00	1.60	1
Perfluorohexanesulfonic Acid (PFHxS)	40.0		ng/l	8.00	1.92	1
Perfluorooctanoic Acid (PFOA)	3.60	J	ng/l	8.00	3.48	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	32.0	10.8	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.40	J	ng/l	8.00	2.16	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	8.00	2.52	1
Perfluorooctanesulfonic Acid (PFOS)	34.0		ng/l	8.00	3.64	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	8.00	3.24	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	32.0	12.4	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	8.00	2.48	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	8.00	4.36	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	8.00	3.48	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	8.00	1.84	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	8.00	2.16	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	8.00	4.32	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	8.00	3.68	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	8.00	3.00	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	8.00	2.12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	32.0	4.48	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	32.0	5.04	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	8.00	3.04	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 RE
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	32.0	6.60	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	32.0	6.60	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	8.00	3.48	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	8.00	3.68	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	80.0	18.8	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	80.0	9.80	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	16.0	2.28	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	16.0	2.12	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	16.0	1.76	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	16.0	9.44	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	40.0	13.2	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	200	46.8	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	200	31.6	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-09 RE Date Collected: 06/08/23 10:00
Client ID: MW-16 Date Received: 06/09/23
Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	79		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	83		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	79		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	80		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	78		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	80		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	75		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	71		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	72		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	72		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	56		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	60		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	56		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	46		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	60		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	47		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	74		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	48		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	49		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	55		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	59		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

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

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 06/19/23 06:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 02:35

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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/08/23 08:00
Date Received: 06/09/23
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

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/08/23 08:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	93.7	J	ug/l			1
Unknown Organic Acid	1.78	J	ug/l			1
Unknown Organic Acid	20.1	J	ug/l			1
Unknown	7.85	J	ug/l			1
Unknown Organic Acid	4.73	J	ug/l			1
Unknown	4.54	J	ug/l			1
Unknown	2.22	J	ug/l			1
Unknown	1.71	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown Organic Acid	27.2	J	ug/l			1
Unknown	10.4	J	ug/l			1
Unknown Organic Acid	4.98	J	ug/l			1
Unknown	1.64	J	ug/l			1
Unknown	1.85	J	ug/l			1
Unknown	2.91	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	55		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

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

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/15/23 15:39
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:29

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	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: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 06/08/23 08:00
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	77		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

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

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 07/03/23 23:58
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	24.2		ng/l	5.86	0.938	1
Perfluoropentanoic Acid (PFPeA)	39.0		ng/l	2.93	0.784	1
Perfluorobutanesulfonic Acid (PFBS)	96.0		ng/l	1.46	0.491	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.86	1.53	1
Perfluorohexanoic Acid (PFHxA)	129		ng/l	1.46	0.432	1
Perfluoropentanesulfonic Acid (PFPeS)	81.6		ng/l	1.46	0.256	1
Perfluoroheptanoic Acid (PFHpA)	19.6		ng/l	1.46	0.293	1
Perfluorohexanesulfonic Acid (PFHxS)	330		ng/l	1.46	0.352	1
Perfluorooctanoic Acid (PFOA)	29.5		ng/l	1.46	0.637	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.86	1.98	1
Perfluoroheptanesulfonic Acid (PFHpS)	7.91		ng/l	1.46	0.396	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.46	0.462	1
Perfluorooctanesulfonic Acid (PFOS)	223		ng/l	1.46	0.667	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.46	0.593	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.86	2.28	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.46	0.454	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.46	0.799	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.46	0.637	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.46	0.337	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.46	0.396	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.46	0.791	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.46	0.674	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.46	0.550	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.46	0.388	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.86	0.820	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.86	0.923	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.46	0.557	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10 Date Collected: 06/08/23 08:00

Client ID: BLIND DUP Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.86	1.21	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.86	1.21	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.46	0.637	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.46	0.674	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.6	3.44	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.6	1.80	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.93	0.418	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.93	0.388	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.93	0.322	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.93	1.73	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.33	2.42	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.6	8.57	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.6	5.78	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-10 Date Collected: 06/08/23 08:00

Client ID: BLIND DUP Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	85		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	60		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**165**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	66		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	76		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	70		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	121		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	66		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	74		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	96		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	47		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	66		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	49		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	66		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	64		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	99		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	52		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	54		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	65		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-11
Client ID: FIELD BLANK
Sample Location: OLEAN, NY

Date Collected: 06/08/23 10:30
Date Received: 06/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 07/04/23 00:10
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.99	0.958	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.99	0.801	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.50	0.501	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.99	1.56	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.50	0.442	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.50	0.262	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.50	0.299	1
Perfluorohexanesulfonic Acid (PFHxS)	0.374	J	ng/l	1.50	0.359	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.50	0.651	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.99	2.02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.50	0.404	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.50	0.472	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.50	0.681	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.50	0.606	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.99	2.33	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.50	0.464	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.50	0.816	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.50	0.651	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.50	0.344	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.50	0.404	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.50	0.808	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.50	0.688	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.50	0.561	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.50	0.397	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.99	0.838	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.99	0.943	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.50	0.569	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-11 Date Collected: 06/08/23 10:30

Client ID: FIELD BLANK Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.99	1.23	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.99	1.23	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.50	0.651	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.50	0.688	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.0	3.52	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.0	1.83	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.99	0.427	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.99	0.397	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.99	0.329	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.99	1.77	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.48	2.47	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.4	8.76	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.4	5.90	1

Project Name: OREGON ROAD **Lab Number:** L2332697

Project Number: 0311-022-001 **Report Date:** 07/10/23

SAMPLE RESULTS

Lab ID: L2332697-11 Date Collected: 06/08/23 10:30

Client ID: FIELD BLANK Date Received: 06/09/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	69		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	67		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	67		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	65		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	67		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	61		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	65		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	66		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	57		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	59		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	58		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	74		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	58		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	54		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	79		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	54		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	53		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	74		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	70		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	44		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	44		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	60		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/14/23 19:52
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1790916-1					
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: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/14/23 19:52
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1790916-1					
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	20.7	J	ug/l
Unknown Organic Acid	1.60	J	ug/l
Unknown	13.3	J	ug/l
Unknown	1.49	J	ug/l
Unknown	2.84	J	ug/l

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/14/23 19:52
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1790916-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	70		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/14/23 17:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG1790918-1					
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	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.03	J	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	0.03	J	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	0.04	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/14/23 17:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/14/23 00:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG1790918-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	86		41-149

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/03/23 20:19
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06,10-11 Batch: WG1798926-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/03/23 20:19
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06,10-11 Batch: WG1798926-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/03/23 20:19
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/03/23 06:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06,10-11 Batch: WG1798926-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	92		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	104		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	87		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	100		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	78		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	53		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	87		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	62		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	66		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	98		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	86		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	91		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	58		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	77		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/07/23 11:27
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/06/23 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 09 Batch: WG1799897-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/07/23 11:27
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/06/23 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 09 Batch: WG1799897-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 07/07/23 11:27
Analyst: CHB

Extraction Method: EPA 1633
Extraction Date: 07/06/23 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 09 Batch: WG1799897-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	74		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	84		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	74		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	73		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	73		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	74		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	67		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	72		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	67		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	58		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	70		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	57		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	76		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	59		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	70		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	56		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	61		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	73		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	82		20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1790916-2 WG1790916-3								
Bis(2-chloroethyl)ether	59		61		40-140	3		30
3,3'-Dichlorobenzidine	64		60		40-140	6		30
2,4-Dinitrotoluene	69		66		48-143	4		30
2,6-Dinitrotoluene	68		63		40-140	8		30
4-Chlorophenyl phenyl ether	67		63		40-140	6		30
4-Bromophenyl phenyl ether	70		65		40-140	7		30
Bis(2-chloroisopropyl)ether	60		60		40-140	0		30
Bis(2-chloroethoxy)methane	64		62		40-140	3		30
Hexachlorocyclopentadiene	63		66		40-140	5		30
Isophorone	63		63		40-140	0		30
Nitrobenzene	60		62		40-140	3		30
NDPA/DPA	69		68		40-140	1		30
n-Nitrosodi-n-propylamine	64		64		29-132	0		30
Bis(2-ethylhexyl)phthalate	73		66		40-140	10		30
Butyl benzyl phthalate	72		65		40-140	10		30
Di-n-butylphthalate	71		64		40-140	10		30
Di-n-octylphthalate	72		67		40-140	7		30
Diethyl phthalate	70		66		40-140	6		30
Dimethyl phthalate	69		64		40-140	8		30
Biphenyl	68		67		40-140	1		30
4-Chloroaniline	56		56		40-140	0		30
2-Nitroaniline	68		64		52-143	6		30
3-Nitroaniline	63		59		25-145	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1790916-2 WG1790916-3								
4-Nitroaniline	64		59		51-143	8		30
Dibenzofuran	67		65		40-140	3		30
1,2,4,5-Tetrachlorobenzene	67		69		2-134	3		30
Acetophenone	65		67		39-129	3		30
2,4,6-Trichlorophenol	70		67		30-130	4		30
p-Chloro-m-cresol	67		63		23-97	6		30
2-Chlorophenol	63		62		27-123	2		30
2,4-Dichlorophenol	67		66		30-130	2		30
2,4-Dimethylphenol	64		60		30-130	6		30
2-Nitrophenol	66		67		30-130	2		30
4-Nitrophenol	49		45		10-80	9		30
2,4-Dinitrophenol	48		45		20-130	6		30
4,6-Dinitro-o-cresol	70		69		20-164	1		30
Phenol	41		40		12-110	2		30
2-Methylphenol	58		58		30-130	0		30
3-Methylphenol/4-Methylphenol	63		61		30-130	3		30
2,4,5-Trichlorophenol	69		66		30-130	4		30
Carbazole	71		68		55-144	4		30
Atrazine	84		78		40-140	7		30
Benzaldehyde	88		91		40-140	3		30
Caprolactam	28		27		10-130	4		30
2,3,4,6-Tetrachlorophenol	70		66		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1790916-2 WG1790916-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		54		21-120
Phenol-d6	41		41		10-120
Nitrobenzene-d5	64		67		23-120
2-Fluorobiphenyl	69		68		15-120
2,4,6-Tribromophenol	67		65		10-120
4-Terphenyl-d14	70		61		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG1790918-2 WG1790918-3								
Acenaphthene	67		65		40-140	3		40
2-Chloronaphthalene	68		67		40-140	1		40
Fluoranthene	71		68		40-140	4		40
Hexachlorobutadiene	60		61		40-140	2		40
Naphthalene	64		64		40-140	0		40
Benzo(a)anthracene	81		76		40-140	6		40
Benzo(a)pyrene	80		76		40-140	5		40
Benzo(b)fluoranthene	74		70		40-140	6		40
Benzo(k)fluoranthene	74		70		40-140	6		40
Chrysene	70		67		40-140	4		40
Acenaphthylene	76		74		40-140	3		40
Anthracene	74		70		40-140	6		40
Benzo(ghi)perylene	79		76		40-140	4		40
Fluorene	71		68		40-140	4		40
Phenanthrene	66		63		40-140	5		40
Dibenzo(a,h)anthracene	79		75		40-140	5		40
Indeno(1,2,3-cd)pyrene	78		75		40-140	4		40
Pyrene	68		65		40-140	5		40
2-Methylnaphthalene	68		68		40-140	0		40
Pentachlorophenol	77		72		40-140	7		40
Hexachlorobenzene	64		61		40-140	5		40
Hexachloroethane	63		64		40-140	2		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG1790918-2 WG1790918-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		57		21-120
Phenol-d6	48		47		10-120
Nitrobenzene-d5	84		85		23-120
2-Fluorobiphenyl	71		69		15-120
2,4,6-Tribromophenol	109		102		10-120
4-Terphenyl-d14	73		68		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	94		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	84		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	99		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	91		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	85		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	88		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	85		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	88		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	85		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	88		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	89		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	70		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	84		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	80		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	94		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	86		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	82		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	80		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	85		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	95		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	85		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	90		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	80		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	91		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	84		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	80		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	85		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	74		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	92		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	80		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	84		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	86		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	81		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	86		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	84		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	96		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	86		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	60		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	46		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	101				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	97				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	98				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	95				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	97				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	76				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	93				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	76				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	82				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	90				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	90				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	67				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	74				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	88				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	88				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-3								
Perfluorobutanoic Acid (PFBA)	85		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	88		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	70		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	88		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	92		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	90		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	89		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	86		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	90		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	90		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	91		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	82		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	80		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	78		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	92		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	82		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	88		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	94		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	78		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	89		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	93		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	84		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-3								
Perfluorotridecanoic Acid (PFTrDA)	88		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	84		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	88		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	78		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	75		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	78		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	71		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	87		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	90		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	89		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	95		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	86		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	88		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	90		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	102		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	86		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	72		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	45		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06,10-11 Batch: WG1798926-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	96				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	94				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	88				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	95				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	92				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	80				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	65				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	69				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	75				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	82				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	96				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	71				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	70				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	81				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	79				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	96		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	90		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	99		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	85		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	96		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	93		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	92		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	95		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	92		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	95		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	97		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	98		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	75		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	70		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	95		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	72		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	85		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	80		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	82		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	92		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	98		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	91		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	81		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	72		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	87		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	73		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	70		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	75		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	86		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	91		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	96		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	91		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	88		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	81		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	94		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	78		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	50		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-2 LOW LEVEL

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	78				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	79				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	77				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	78				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	75				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	78				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	73				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	81				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	71				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	70				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	66				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	71				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	66				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	62				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	66				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	79				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	56				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	62				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	66				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	71				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-3								
Perfluorobutanoic Acid (PFBA)	97		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	96		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	103		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	100		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	99		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	99		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	92		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	94		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	101		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	102		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	114		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	98		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	101		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	102		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	84		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	111		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	83		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	94		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	102		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-3								
Perfluorotridecanoic Acid (PFTrDA)	96		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	102		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	95		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	85		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	89		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	84		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	74		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	96		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	101		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	92		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	109		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	102		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	91		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	96		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	123		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	109		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	93		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	73		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 Batch: WG1799897-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	63				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	62				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	63				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	63				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	60				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	60				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	59				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	60				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	57				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	55				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	53				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	46				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	53				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	46				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	46				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	50				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	42				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	46				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	41				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	62				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	47				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	51				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	59				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	57				20-150

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1790916-4 WG1790916-5 QC Sample: L2332697-09 Client ID: MW-16												
Bis(2-chloroethyl)ether	ND	18.2	11	61		12	66		40-140	9		30
3,3'-Dichlorobenzidine	ND	18.2	8.5	47		10	55		40-140	16		30
2,4-Dinitrotoluene	ND	18.2	11	61		14	77		48-143	24		30
2,6-Dinitrotoluene	ND	18.2	10	55		12	66		40-140	18		30
4-Chlorophenyl phenyl ether	ND	18.2	9.2	51		10	55		40-140	8		30
4-Bromophenyl phenyl ether	ND	18.2	7.5	41		9.5	52		40-140	24		30
Bis(2-chloroisopropyl)ether	ND	18.2	14	77		16	88		40-140	13		30
Bis(2-chloroethoxy)methane	ND	18.2	10	55		12	66		40-140	18		30
Hexachlorocyclopentadiene	ND	18.2	7.7J	42		8.6J	47		40-140	11		30
Isophorone	ND	18.2	9.0	50		10	55		40-140	11		30
Nitrobenzene	ND	18.2	10	55		11	61		40-140	10		30
NDPA/DPA	ND	18.2	10	55		12	66		40-140	18		30
n-Nitrosodi-n-propylamine	ND	18.2	9.4	52		9.9	54		29-132	5		30
Bis(2-ethylhexyl)phthalate	ND	18.2	14	77		17	94		40-140	19		30
Butyl benzyl phthalate	ND	18.2	14	77		16	88		40-140	13		30
Di-n-butylphthalate	ND	18.2	12	66		14	77		40-140	15		30
Di-n-octylphthalate	ND	18.2	15	83		17	94		40-140	13		30
Diethyl phthalate	ND	18.2	11	61		13	72		40-140	17		30
Dimethyl phthalate	ND	18.2	9.9	54		11	61		40-140	11		30
Biphenyl	ND	18.2	8.8	48		10	55		40-140	13		30
4-Chloroaniline	ND	18.2	7.1	**39**	Q	7.5	41		40-140	5		30
2-Nitroaniline	ND	18.2	11	61		13	72		52-143	17		30
3-Nitroaniline	ND	18.2	10	55		11	61		25-145	10		30

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1790916-4 WG1790916-5 QC Sample: L2332697-09 Client ID: MW-16												
4-Nitroaniline	ND	18.2	12	66		14	77		51-143	15		30
Dibenzofuran	ND	18.2	10	55		12	66		40-140	18		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	7.1J	39		8.0J	44		2-134	12		30
Acetophenone	ND	18.2	9.1	50		10	55		39-129	9		30
2,4,6-Trichlorophenol	ND	18.2	8.2	45		10	55		30-130	20		30
p-Chloro-m-cresol	ND	18.2	9.2	51		11	61		23-97	18		30
2-Chlorophenol	ND	18.2	11	61		12	66		27-123	9		30
2,4-Dichlorophenol	ND	18.2	11	61		12	66		30-130	9		30
2,4-Dimethylphenol	ND	18.2	9.3	51		8.8	48		30-130	6		30
2-Nitrophenol	ND	18.2	13	72		14	77		30-130	7		30
4-Nitrophenol	ND	18.2	10	55		12	66		10-80	18		30
2,4-Dinitrophenol	ND	18.2	9.1J	50		10.J	55		20-130	9		30
4,6-Dinitro-o-cresol	ND	18.2	11	61		13	72		20-164	17		30
Phenol	ND	18.2	6.9	38		7.2	40		12-110	4		30
2-Methylphenol	ND	18.2	9.4	52		10	55		30-130	6		30
3-Methylphenol/4-Methylphenol	ND	18.2	9.2	51		10	55		30-130	8		30
2,4,5-Trichlorophenol	ND	18.2	8.5	47		10	55		30-130	16		30
Carbazole	ND	18.2	12	66		14	77		55-144	15		30
Atrazine	ND	18.2	9.0J	50		10	55		40-140	11		30
Benzaldehyde	ND	18.2	9.5	52		10	55		40-140	5		30
Caprolactam	ND	18.2	5.2J	29		5.8J	32		10-130	11		30
2,3,4,6-Tetrachlorophenol	ND	18.2	8.4	46		10	55		40-140	17		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1790916-4 WG1790916-5 QC Sample: L2332697-09 Client ID: MW-16												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	57		65		10-120
2-Fluorobiphenyl	50		58		15-120
2-Fluorophenol	53		52		21-120
4-Terphenyl-d14	54		63		41-149
Nitrobenzene-d5	63		68		23-120
Phenol-d6	39		41		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001
Lab Number: L2332697
Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1790918-4 WG1790918-5 QC Sample: L2332697-09 Client ID: MW-16												
Acenaphthene	ND	18.2	10	55		11	61		40-140	10		40
2-Chloronaphthalene	ND	18.2	12	66		13	72		40-140	8		40
Fluoranthene	ND	18.2	12	66		13	72		40-140	8		40
Hexachlorobutadiene	ND	18.2	14	77		14	77		40-140	0		40
Naphthalene	ND	18.2	10	55		11	61		40-140	10		40
Benzo(a)anthracene	ND	18.2	11	61		12	66		40-140	9		40
Benzo(a)pyrene	ND	18.2	12	66		13	72		40-140	8		40
Benzo(b)fluoranthene	ND	18.2	12	66		13	72		40-140	8		40
Benzo(k)fluoranthene	ND	18.2	11	61		13	72		40-140	17		40
Chrysene	ND	18.2	11	61		12	66		40-140	9		40
Acenaphthylene	ND	18.2	12	66		14	77		40-140	15		40
Anthracene	ND	18.2	10	55		12	66		40-140	18		40
Benzo(ghi)perylene	ND	18.2	10	55		11	61		40-140	10		40
Fluorene	ND	18.2	11	61		12	66		40-140	9		40
Phenanthrene	ND	18.2	9.8	54		11	61		40-140	12		40
Dibenzo(a,h)anthracene	ND	18.2	10	55		12	66		40-140	18		40
Indeno(1,2,3-cd)pyrene	ND	18.2	10	55		11	61		40-140	10		40
Pyrene	ND	18.2	12	66		13	72		40-140	8		40
2-Methylnaphthalene	ND	18.2	12	66		13	72		40-140	8		40
Pentachlorophenol	ND	18.2	16	88		16	88		40-140	0		40
Hexachlorobenzene	ND	18.2	12	66		13	72		40-140	8		40
Hexachloroethane	ND	18.2	9.8	54		10	55		40-140	2		40

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1790918-4 WG1790918-5 QC Sample: L2332697-09 Client ID: MW-16												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	97		103		10-120
2-Fluorobiphenyl	69		77		15-120
2-Fluorophenol	49		49		21-120
4-Terphenyl-d14	72		80		41-149
Nitrobenzene-d5	69		74		23-120
Phenol-d6	41		42		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1799897-4 WG1799897-5 QC Sample: L2332697-09 Client ID: MW-16												
Perfluorobutanoic Acid (PFBA)	8.80J	400	383	94		393	96		40-150	3		30
Perfluoropentanoic Acid (PFPeA)	4.80J	200	188	92		194	95		40-150	3		30
Perfluorobutanesulfonic Acid (PFBS)	3.60J	88.7	89.6	97		89.2	96		40-150	0		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	375	365	97		370	99		40-150	1		30
Perfluorohexanoic Acid (PFHxA)	9.60	100	108	98		105	95		40-150	3		30
Perfluoropentanesulfonic Acid (PFPeS)	4.40J	94.1	96.8	98		95.6	97		40-150	1		30
Perfluoroheptanoic Acid (PFHpA)	2.00J	100	95.2	93		90.4	88		40-150	5		30
Perfluorohexanesulfonic Acid (PFHxS)	40.0	91.4	125	93		126	94		40-150	1		30
Perfluorooctanoic Acid (PFOA)	3.60J	100	94.0	90		96.4	93		40-150	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	380	360	95		381	100		40-150	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	2.40J	95.3	95.6	98		99.6	102		40-150	4		30
Perfluorononanoic Acid (PFNA)	ND	100	96.8	97		94.8	95		40-150	2		30
Perfluorooctanesulfonic Acid (PFOS)	34.0	92.8	116	88		121	94		40-150	4		30
Perfluorodecanoic Acid (PFDA)	ND	100	92.4	92		95.2	95		40-150	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	384	376	98		382	100		40-150	2		30
Perfluorononanesulfonic Acid (PFNS)	ND	96.2	71.2	74		76.0	79		40-150	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	100	100	100		89.6	90		40-150	11		30
Perfluoroundecanoic Acid (PFUnA)	ND	100	106	106		101	101		40-150	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	96.5	66.4	69		68.8	71		40-150	4		30
Perfluorooctanesulfonamide (PFOSA)	ND	100	94.4	94		96.0	96		40-150	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	100	85.6	86		96.0	96		40-150	11		30
Perfluorododecanoic Acid (PFDoA)	ND	100	97.6	98		97.2	97		40-150	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1799897-4 WG1799897-5 QC Sample: L2332697-09 Client ID: MW-16												
Perfluorotridecanoic Acid (PFTrDA)	ND	100	94.8	95		94.0	94		40-150	1		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	100	104	104		102	102		40-150	2		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	400	378	94		376	94		40-150	1		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	378	324	86		319	84		40-150	2		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	97	65.2	67		70.0	72		40-150	7		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	374	304	81		300	80		40-150	1		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	378	250	66		233	62		40-150	7		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	100	89.6	90		88.8	89		40-150	1		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	100	90.4	90		99.2	99		40-150	9		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	1000	966	97		983	98		40-150	2		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	1000	926	93		988	99		40-150	6		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	200	192	96		192	96		40-150	0		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	200	182	91		174	87		40-150	4		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	178	166	93		166	93		40-150	0		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	200	206	103		187	94		40-150	10		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	500	459	92		458	92		40-150	0		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	2500	2150	86		2000	80		40-150	7		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	2500	1590	64		1410	56		40-150	12		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1799897-4 WG1799897-5 QC Sample: L2332697-09 Client ID: MW-16												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75		79		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	96		99		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		83		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	54		47		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	51		45		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	63		58		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		49		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	56		58		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	57		56		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		87		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	58		62		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	76		80		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	86		91		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	66		71		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	70		81		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	83		82		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	85		81		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	58		62		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		60		20-150
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		86		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		83		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	84		87		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	82		84		20-150

Matrix Spike Analysis

Batch Quality Control

Project Name: OREGON ROAD

Project Number: 0311-022-001

Lab Number: L2332697

Report Date: 07/10/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1799897-4 WG1799897-5 QC Sample: L2332697-09 Client ID: MW-16												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	83		85		20-150

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2332697-01A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-01B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-01C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-01D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-01E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-02A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-02B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-02C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-02D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-02E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-03A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-03B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-03C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-03D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-03E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-04A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-04B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-04C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-04D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-04E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-05A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-05B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2332697-05C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-05D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-05E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-06A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-06B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-06C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-06D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-06E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-06F	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-06G	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-06H	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-07A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-07B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-07C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-07D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-07E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2332697-08A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-08B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-08C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-08D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-08E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09A1	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09A2	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09B1	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09B2	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2332697-09C1	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09C2	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-09D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09D1	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09D2	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09E1	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09E2	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-09F	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09F1	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09F2	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09G	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09G1	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09G2	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09H	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09H1	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-09H2	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-10A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-10B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-10C	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260-R2(14)
L2332697-10D	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-10E	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2332697-10F	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-10G	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-10H	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-11F	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-11G	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)
L2332697-11H	Plastic 500ml unpreserved	B	NA		5.7	Y	Absent		A2-1633-DRAFT(28)

*Values in parentheses indicate holding time in days

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2332697-12A	Vial HCl preserved	B	NA		5.7	Y	Absent		NYTCL-8260-R2(14)
L2332697-12B	Vial HCl preserved	B	NA		5.7	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

PFAS PARAMETER SUMMARY

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

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

PFAS PARAMETER SUMMARY

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

Project Name:	OREGON ROAD	**Lab Number:**	L2332697
Project Number:	0311-022-001	**Report Date:**	07/10/23

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	OREGON ROAD	**Lab Number:**	L2332697
Project Number:	0311-022-001	**Report Date:**	07/10/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. 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

Report Format: DU Report with 'J' Qualifiers

Project Name:	OREGON ROAD	**Lab Number:**	L2332697
Project Number:	0311-022-001	**Report Date:**	07/10/23

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	OREGON ROAD	**Lab Number:**	L2332697
Project Number:	0311-022-001	**Report Date:**	07/10/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/10/23

ALPHA Job #: L2332697

Client Information
Client: Benchmark Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY
Phone: 716-856-0599
Fax:
Email: Lcicker@bm-tk.com

Project Information
Project Name: Oregon Road
Project Location: Olean, NY
Project # 0311-022-001
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260+CP-51+TICs	NYTCL-8270+CP-51+TICs	A2-1633	Sample Specific Comments	Total Bottle
32697-01	MW-2R	6-8-23	1445	water	CEH	X	X			
02	MW-5		1600			X	X			
03	MW-7		1650			X	X			
04	MW-8		1305			X	X			
05	MW-9		1500			X	X			
06	MW-12		1055			X	X	X		
07	MW-13		1240			X	X			
08	MW-15		1145			X	X			
09	MW-16		1000			X	X	X		
10	MS/MSD		1000			X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P
Preservative	B	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Charles Hornbeeter	6-8-23/1730	[signature] ALC	6/9 1514
[signature] ALC	6/9 1514	[signature]	6/10/23 0900

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/10/23

ALPHA Job #: L2332697

Client Information
Client: Benchmark Turnkey
Address:
Phone:
Fax:
Email: Lriker@bm-tk.com

Project Information
Project Name: Oregon Road
Project Location:
Project # 0311-022-001
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260+ CP-51+TICs	NYTCL-8270+ CP-51+TICs	A2-1633	Total Bottle	Sample Specific Comments
32697-10	Blind Dup	6-8-23	0800	water	CEH	X	X	X		
11 12	Field Blank	6-8-23	1030	water	CEH			X		
12 13	Trip Blank	6-8-23		water	CEH	X				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P
Preservative	B	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Chester Hochreiter	6-8-23/1730		
Rajat AAL	6/9 1515		6/10/23 0900

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

May 8, 2024

Jessica Dombrowski
Roux Environmental Engineering and Geology, D. P. C.
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the Oregon Road Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha SDG Nos. L2332697

Dear Ms. Dombrowski:

Review has been completed for the data package generated by Alpha Analytical that pertains to aqueous samples collected 06/08/23 at the Oregon Road site. Nine samples and a field duplicate were processed for TCL volatiles and TCL semivolatiles. Two of the samples, the field duplicate, and a field blank were processed for per- and polyfluoroalkyl substances (PFAS). Tentatively Identified Compounds (TICs) were processed, and a trip blank was run for TCL volatiles. The analytical methodologies are those of the USEPA SW846 and USEPA draft method 1633.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents and the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate/Isotopic Dilution/Internal Standard Recoveries
* Method and Preparation Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, the results for the samples are usable either as reported or with minor qualification, with the exception that results for 1,4-dioxin are rejected and not usable.

Data completeness, accuracy, precision, representativeness, reproducibility, sensitivity, and comparability are acceptable.

Validation data qualifier definitions and client sample identifications are attached to this text. Also included in this report is the laboratory EDD with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The year was omitted from the interim laboratory receipt and relinquish date entries.

Blind Field Duplicates

The field duplicate evaluation was performed on MW-12. Correlations are within validation action guidelines.

TCL Volatile Analyses by EPA 8260C

Results for 1,4-dioxane are rejected and not usable due to poor instrument response inherent in the methodology. Other calibration standards show responses within validation action levels.

Holding times are met. Surrogate and internal standard recoveries are compliant. Blanks show no contamination.

The matrix spikes/duplicate evaluation was performed on MW-16, and shows recoveries and correlations within validation guidelines.

TCL Semivolatile Analyses by EPA8270D Full Scan and SIM

The matrix spikes/duplicate evaluation was performed on MW-16, and shows recoveries and correlations within validation guidelines.

The method blank for the SIM analysis shows numerous low level target analyte detections. Some of the low level detections in the field samples are therefore considered as contamination, and have been edited to reflect non-detection at the RL.

Surrogate and internal standard recoveries are compliant. Blanks show no contamination of target analytes.

Calibration standards show responses within validation action levels.

The method blank shows several TICs, some of which may be common to the field samples. That blank was not analyzed on the same instrument as the field samples, and therefore retention time cannot be used for that comparison determination. Validation review to determine if sample TICs common to those of the blank is not practical, and the laboratory does not apply the "B" flag to sample TICs that are also present in the blank. As reported, the sample TICs may include external contamination, and reflect a conservative approach.

PFAS by EPA Draft Method 1633

MW-16 was reprocessed due to initial QC failures. The reanalysis was successful, but had limited sample volume. The reporting limits of that sample are therefore increased fivefold.

The matrix spikes/duplicate evaluation was performed on MW-16, and shows recoveries and correlations within validation guidelines.

Holding times were met, and calibration standard responses are within validation action guidelines. Isotopic dilution standard recoveries fall within validation guidelines.

Blanks show no contamination affecting sample reported results. Ion ratios are within ranges. LCS recoveries are compliant.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Project Name: OREGON ROAD
Project Number: 0311-022-001

Lab Number: L2332697
Report Date: 07/10/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2332697-01	MW-2R	WATER	OLEAN, NY	06/08/23 14:45	06/09/23
L2332697-02	MW-5	WATER	OLEAN, NY	06/08/23 16:00	06/09/23
L2332697-03	MW-7	WATER	OLEAN, NY	06/08/23 16:50	06/09/23
L2332697-04	MW-8	WATER	OLEAN, NY	06/08/23 13:05	06/09/23
L2332697-05	MW-9	WATER	OLEAN, NY	06/08/23 15:00	06/09/23
L2332697-06	MW-12	WATER	OLEAN, NY	06/08/23 10:55	06/09/23
L2332697-07	MW-13	WATER	OLEAN, NY	06/08/23 12:40	06/09/23
L2332697-08	MW-15	WATER	OLEAN, NY	06/08/23 11:45	06/09/23
L2332697-09	MW-16	WATER	OLEAN, NY	06/08/23 10:00	06/09/23
L2332697-10	BLIND DUP	WATER	OLEAN, NY	06/08/23 08:00	06/09/23
L2332697-11	FIELD BLANK	WATER	OLEAN, NY	06/08/23 10:30	06/09/23
L2332697-12	TRIP BLANK	WATER	OLEAN, NY	06/08/23 00:00	06/09/23