

From: [O'Neill, Christopher \(DEC\)](#)
To: [Ormsbee, Daniel](#)
Cc: [Leighton, Ed](#); [Miller, Samantha](#); [Keegan, Aaron \(HEALTH\)](#); [Deming, Justin H \(HEALTH\)](#); [Murphy, Michael C \(DEC\)](#)
Subject: FW: 1st Half of 2025 GWTS Report, Sterling Drug Site 1 (Curia), HW#442009
Date: Tuesday, September 16, 2025 1:32:00 PM
Attachments: [image001.png](#)
[Sterling Site 1 - 1st Half 2025 GWTS Sampling Report.pdf](#)

The NYSDEC and NYSDOH have reviewed the attached semi-annual report for the Groundwater Treatment System (GWTS) at Sterling Drug Site 1 (Curia) in Rensselaer.

This GWTS Report is hereby approved.

As discussed in our recent conference call and as a point of clarification, the NYSDEC's request for PFAS and 1,4-dioxane stands as an ongoing modification to the sampling and analytical protocol for the monthly GWTS influent and effluent samples.

I can be reached at 518-357-2394 if there are any questions.

Christopher O'Neill, P.E.
NYSDEC – Schenectady
518-357-2394

From: Ormsbee, Daniel <Daniel.Ormsbee@curiaglobal.com>
Sent: Friday, August 29, 2025 10:49 AM
To: O'Neill, Christopher (DEC) <christopher.oneill@dec.ny.gov>
Cc: Miller, Samantha <smiller@chasolutions.com>; Leighton, Ed <Ed.Leighton@curiaglobal.com>
Subject: 1st Half of 2025 GWTS Report

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning Chris –

Please find attached the 1st Half of 2025 Groundwater Treatment System (GWTS) report for the Curia Global site located in Rensselaer, New York.

Thank you!

Daniel B. Ormsbee Jr

Senior EH&S Specialist
He/They

Office: 518-433-7700 (ext. 35325)
Rensselaer, New York
curiaglobal.com



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[CURIA](#)



August 29, 2025

Mr. Christopher O'Neill, P.E.
Professional Engineer 1
Division of Environmental Remediation
New York State Department of
Environmental Conservation (NYSDEC)
Region 4
1130 North Westcott Road
Schenectady, NY 12306-2014

Re: Site No.: 442009
Sterling Site No. 1
Rensselaer, New York
Groundwater Treatment System
Biannual Monitoring Results
First Half 2025

Dear Mr. O'Neill:

Enclosed for your review are the biannual monitoring results for the Groundwater Treatment System (GWTS) at Site No.: 442009, Sterling Site No. 1 located in Rensselaer, New York. These results are for the first half of 2025 reporting period (1/01/2025-6/30/2025). Analytical results for the reporting period are summarized in Tables 1, 2 and 3 and copies of the laboratory reports are included in Appendix A.

A total of 6 samples were collected by Adirondack Environmental Services (AES) and 12 by CHA during this reporting period (three samples per month), which consisted of a pre-filter influent, a between filters, and a post-filter effluent sample. The samples were analyzed for the following:

- Benzene,
- Toluene,
- Ethylbenzene,
- Xylene (m, p, and o),
- Chlorobenzene,
- 1,2-Dichlorobenzene,
- 1,3-Dichlorobenzene,
- 1,4-Dichlorobenzene.

A total of 8 samples were collected by CHA during this reporting period (two samples per month) which consisted of a pre-filter influent and a post-filter effluent sample as requested by NYSDEC in the February 4, 2025 Request for Modification letter. A copy of the letter is included in Appendix B. The samples were analyzed for the following:

- 1,4-Dioxane,
- Perfluorooctanoic acid (PFOA),
- Perfluorooctanesulfonic acid (PFOS).

As summarized in Table 1, there were no contaminants of concern reported above groundwater standards in the system's post-filter effluent samples during the reporting period, except for a Chlorobenzene during the May 2025 sampling event. The following month's sampling event, June 2025, Chlorobenzene was determined to be non-detect. The results of the sampling events showed apparent sample port detections for Benzene



and Chlorobenzene in the “between filters”. The “between filters” sample port is located between the primary and secondary 55-gallon liquid phase (GAC) filters.

Table 2 and 3 summarize the expanded sampling and analysis of 1,4-Dioxane, PFOA, and PFOS starting March 2025 as requested by NYSDEC on February 4, 2025. None of the post-filter effluent sample concentrations were above the groundwater standard between March 2025 and May 2025 for PFOA and PFOS constituents; however, both PFOA and PFOS post-filter effluent sample concentrations were above the groundwater standard during the June 2025 sampling event. Additionally, post-filter 1,4-Dioxane sample concentrations were above the groundwater standard between March 2025 and June 2025. The requested samples, as described in the modification letter, will continue through the second half of the year.

Table 4 summarizes GAC filter usage and drum position to date. Drums are stockpiled onsite and changeover of drums is based on analytical results from the ‘between filters’ sample port. Manifests are not included in this report due to no carbon drums being transported off site for the first half of 2025.

No, non-routine, maintenance was conducted during the first half of 2025. As a corrective action to the exceedances discussed above, the carbon cannisters have been replaced and will be reported within the second of 2025’s sampling report.

Should you require any additional information concerning this matter, please do not hesitate to contact the undersigned at 518-433-7700 ext. 35325.

Regards,

A handwritten signature in black ink, appearing to read "D Ormsbee". The signature is fluid and cursive, with the first letter "D" being particularly large and stylized.

Daniel Ormsbee Jr
Sr. Environmental, Health and Safety Specialist



TABLE 1
Sterling Site No. 1
Groundwater Treatment System Analytical Results
First Half 2025

| Sample Date (month/day/year) | Benzene (ug/L) | | | | Chlorobenzene (ug/L) | | | |
|---------------------------------|--------------------|------------------------------|--------------------|--|----------------------|------------------------------|--------------------|--|
| | Influent (ug/L) | Between Filters (ug/L) | Effluent (ug/L) | Benzene Groundwater Standard (ug/L) | Influent (ug/L) | Between Filters (ug/L) | Effluent (ug/L) | Chlorobenzene Groundwater Standard (ug/L) |
| 1/17/2025 | 60 | 10 | ND | 1.0 | 4600 | 560 | ND | 5.0 |
| 2/20/2025 | 170 | 100 | ND | | 17000 | 11000 | ND | |
| 3/25/2025 | 110 | 40 | ND | | 7800 | 3000 | ND | |
| 4/17/2025 | 82 | 50 | ND | | 6400 | 4000 | ND | |
| 5/16/2025 | 40 | 5.8 | ND | | 3400 | 380 | 7.2 | |
| 6/13/2025 | 29 | 25 | ND | | 2600 | 2200 | ND | |

Notes:

ND : Not Detected at reporting limit

S+: LCS Spike recovery is above acceptable limits

TABLE 2
Sterling Site No.1
Groundwater Treatment System Analytical Results
First Half 2025

| Sample Date (month/day/year) | Perfluorooctanoic acid (PFOA) (ng/L) | | | Perfluorooctanesulfonic acid (PFOS) (ng/L) | | |
|---------------------------------|---|--------------------|---|--|-----------------|---------------------------------------|
| | Influent (ng/L) | Effluent (ng/L) | (PFOA) Groundwater Standard (ng/L) | Influent (ng/L) | Effluent (ng/L) | (PFAS) Groundwater Standard (ng/L) |
| 3/25/2025 | 16.2 | 3.76 | 6.7 | 23.7 | 2.06 | 2.7 |
| 4/17/2025 | 17.8 | 2.72 | | 22.4 | 1.35 | |
| 5/16/2025 | 14.3 | 3.05 | | 26.5 | 0.73 | |
| 6/13/2025 | 22.4 | 10.6 | | 31.2 | 13.4 | |

Notes:

J : Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration

ND : Not Detected at reporting limit

PF-CCV-L : The CCV recovery for this PFAS compound was below control limits.



TABLE 3
Sterling Site No. 1
Groundwater Treatment System Analytical Results
First Half 2025

| | 1,4-Dioxane (ug/L) | | |
|---|--------------------|-----------------|--|
| Sample Date (month/day/year) | Influent (ug/L) | Effluent (ug/L) | 1,4-Dioxane Groundwater Standard (ug/L) |
| 3/25/2025 | 1.82 | 2.18 | 0.35 |
| 4/17/2025 | 2.00 | 2.38 | |
| 5/16/2025 | 0.91 | 2.52 | |
| 6/13/2025 | 1.26 | 1.68 | |
| Notes: N - Matrix Spike below acceptable limits S - LCS Spike recovery is below acceptable limits | | | |



TABLE 4
GAC Filter Usage and Inventory

| Installation Date | Number of Drums | Position of Drum | Position Change Date | Removal Date |
|--------------------------|------------------------|-------------------------|-----------------------------|---------------------|
| December 12, 2016 | 1 | Removed from service | January 17, 2017 | February 27, 2017 |
| January 17, 2017 | 1 | Removed from service | February 27, 2017 | April 05, 2017 |
| February 27, 2017 | 1 | Removed from service | April 05, 2017 | June 15, 2017 |
| April 05, 2017 | 1 | Removed from service | June 15, 2017 | June 29, 2017 |
| June 15, 2017 | 1 | Removed from service | June 29, 2017 | August 1, 2017 |
| June 29, 2017 | 1 | Removed from service | August 1, 2017 | September 6, 2017 |
| August 1, 2017 | 1 | Removed from service | September 6, 2017 | October 26, 2017 |
| September 6, 2017 | 1 | Removed from service | October 26, 2017 | August 3, 2018 |
| October 26, 2017 | 1 | Removed from service | August 3, 2018 | July 10, 2019 |
| August 3, 2018 | 1 | Removed from service | July 10, 2019 | November 13, 2019 |
| July 10, 2019 | 1 | Removed from service | November 13, 2019 | October 30, 2020 |
| November 13, 2019 | 1 | Removed from service | October 30, 2020 | December 17, 2020 |
| October 30, 2020 | 1 | Removed from service | December 17, 2020 | August 9, 2021 |
| December 17, 2020 | 1 | Removed from service | August 9, 2021 | September 26, 2021 |
| August 13, 2021 | 1 | Removed from service | September 26, 2021 | December 22, 2021 |
| September 26, 2021 | 1 | Removed from service | December 22, 2021 | August 8, 2022 |
| December 22, 2021 | 1 | Removed from service | August 8, 2022 | November 17, 2022 |
| August 8, 2022 | 1 | Removed from service | November 17, 2022 | May 16, 2023 |
| November 17, 2022 | 1 | Removed from service | May 16, 2023 | August 23, 2023 |
| May 16, 2023 | 1 | Removed from service | August 23, 2023 | November 18, 2023 |
| August 23, 2023 | 1 | Removed from service | November 18, 2023 | February 9, 2024 |
| November 18, 2023 | 1 | Removed from service | February 9, 2024 | May 6, 2024 |
| February 9, 2024 | 1 | Removed from service | May 6, 2024 | July 23, 2024 |
| May 6, 2024 | 1 | Removed from service | July 23, 2024 | September 17, 2024 |
| July 23, 2024 | 1 | Removed from service | September 17, 2024 | December 10, 2024 |
| September 17, 2024 | 1 | Primary | December 10, 2024 | |
| | | | | |
| Inventory | 3 | | | |



Appendix A



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 20, 2025

William Gorman
Curia Global, Inc.
33 Riverside Avenue
Rensselaer, NY 12144

Work Order No: 250109050

TEL: (518)433-7772

RE: Building 30
Monthly

Adirondack Environmental Services, Inc received 4 samples on 1/9/2025 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

A handwritten signature in black ink, appearing to read "Matt Daigneault", is written over a horizontal line.

Matthew Daigneault
Laboratory Manager

Curia Global, Inc.

Date: 20-Jan-25

Building 30

Lab WorkOrder: 250109050

Monthly

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| | |
|---|---|
| Qualifiers: ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
| J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| H: Hold time exceeded | Z: Duplication outside acceptable limits |
| N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: 20-Jan-25

CLIENT: Curia Global, Inc.
Work Order: 250109050
Reference: Building 30 / Monthly
PO#:

Client Sample ID: Before Filters
Collection Date: 1/9/2025 8:50:00 AM
Lab Sample ID: 250109050-001
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE

Analyst: **FLD**

| | | | | | | |
|---------------|---------|--|--|-----|--|---------------------|
| Meter Reading | 10027.0 | | | gal | | 1/9/2025 8:50:00 AM |
|---------------|---------|--|--|-----|--|---------------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|------|--------|----|------|----|----------------------|
| Benzene | 60 | 25 | C | µg/L | 50 | 1/17/2025 6:22:00 PM |
| Toluene | ND | 25 | C | µg/L | 50 | 1/17/2025 6:22:00 PM |
| Chlorobenzene | 4600 | 25 | | µg/L | 50 | 1/17/2025 6:22:00 PM |
| Ethylbenzene | ND | 25 | | µg/L | 50 | 1/17/2025 6:22:00 PM |
| m,p-Xylene | ND | 25 | C | µg/L | 50 | 1/17/2025 6:22:00 PM |
| o-Xylene | ND | 25 | | µg/L | 50 | 1/17/2025 6:22:00 PM |
| 1,3-Dichlorobenzene | ND | 25 | | µg/L | 50 | 1/17/2025 6:22:00 PM |
| 1,2-Dichlorobenzene | ND | 25 | C | µg/L | 50 | 1/17/2025 6:22:00 PM |
| 1,4-Dichlorobenzene | ND | 25 | SC | µg/L | 50 | 1/17/2025 6:22:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 107 | 74-127 | | %REC | 50 | 1/17/2025 6:22:00 PM |
| Surr: 4-Bromofluorobenzene | 98.8 | 74-128 | | %REC | 50 | 1/17/2025 6:22:00 PM |
| Surr: Toluene-d8 | 100 | 75-127 | | %REC | 50 | 1/17/2025 6:22:00 PM |

Adirondack Environmental Services, Inc

Date: 20-Jan-25

CLIENT: Curia Global, Inc.
Work Order: 250109050
Reference: Building 30 / Monthly
PO#:

Client Sample ID: Between Filters
Collection Date: 1/9/2025 8:47:00 AM
Lab Sample ID: 250109050-002
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|-------------|--------|----|------|---|----------------------|
| Benzene | 10 | 2.5 | C | µg/L | 5 | 1/17/2025 5:57:00 PM |
| Toluene | ND | 2.5 | C | µg/L | 5 | 1/17/2025 5:57:00 PM |
| Chlorobenzene | 560 | 2.5 | | µg/L | 5 | 1/17/2025 5:57:00 PM |
| Ethylbenzene | ND | 2.5 | | µg/L | 5 | 1/17/2025 5:57:00 PM |
| m,p-Xylene | ND | 2.5 | C | µg/L | 5 | 1/17/2025 5:57:00 PM |
| o-Xylene | ND | 2.5 | | µg/L | 5 | 1/17/2025 5:57:00 PM |
| 1,3-Dichlorobenzene | ND | 2.5 | | µg/L | 5 | 1/17/2025 5:57:00 PM |
| 1,2-Dichlorobenzene | ND | 2.5 | C | µg/L | 5 | 1/17/2025 5:57:00 PM |
| 1,4-Dichlorobenzene | ND | 2.5 | SC | µg/L | 5 | 1/17/2025 5:57:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 74-127 | | %REC | 5 | 1/17/2025 5:57:00 PM |
| Surr: 4-Bromofluorobenzene | 102 | 74-128 | | %REC | 5 | 1/17/2025 5:57:00 PM |
| Surr: Toluene-d8 | 95.0 | 75-127 | | %REC | 5 | 1/17/2025 5:57:00 PM |

Adirondack Environmental Services, Inc

Date: 20-Jan-25

CLIENT: Curia Global, Inc.
Work Order: 250109050
Reference: Building 30 / Monthly
PO#:

Client Sample ID: After Filters
Collection Date: 1/9/2025 8:45:00 AM
Lab Sample ID: 250109050-003
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|-------------|--------|--|------|---|----------------------|
| Benzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| Toluene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| Chlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| m,p-Xylene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| 1,3-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| 1,2-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| 1,4-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:56:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 74-127 | | %REC | 1 | 1/10/2025 5:56:00 PM |
| Surr: 4-Bromofluorobenzene | 105 | 74-128 | | %REC | 1 | 1/10/2025 5:56:00 PM |
| Surr: Toluene-d8 | 98.5 | 75-127 | | %REC | 1 | 1/10/2025 5:56:00 PM |

Adirondack Environmental Services, Inc

Date: 20-Jan-25

CLIENT: Curia Global, Inc.
Work Order: 250109050
Reference: Building 30 / Monthly
PO#:

Client Sample ID: Trip Blank
Collection Date: 1/9/2025
Lab Sample ID: 250109050-004
Matrix: TRIP BLANK

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|-------------|--------|--|------|---|----------------------|
| Benzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| Toluene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| Chlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| m,p-Xylene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| 1,3-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| 1,2-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| 1,4-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 1/10/2025 5:34:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 102 | 74-127 | | %REC | 1 | 1/10/2025 5:34:00 PM |
| Surr: 4-Bromofluorobenzene | 99.8 | 74-128 | | %REC | 1 | 1/10/2025 5:34:00 PM |
| Surr: Toluene-d8 | 98.9 | 75-127 | | %REC | 1 | 1/10/2025 5:34:00 PM |



314 North Pearl Street
 Albany, New York 12207
 518-434-4546 ♦ Fax: 518-434-0891

CHAIN OF CUSTODY RECORD

AES Work Order#:

250109050

EXPERIENCE IS THE SOLUTION

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| Client Name: Curia Global Inc. | | Address: | | | | | | | |
|--|-------------------|---|----------------------|---|---------------------------------------|---|-------------|----------|-------------------------|
| Send Report to: | | Project Name (Location): Bldg. 30 - Monthly | | | Samplers Name: <i>Darren Coats</i> | | | | |
| Client Phone No.: | | PO #: | | | Samplers Signature: <i>D Coats</i> | | | | |
| Client Fax No.: | | | | | | | | | |
| AES Sample ID | Client Sample ID: | Date Sampled | Time A=am P=pm | Sample Type | | | # of Cont's | Analysis | |
| | | | | Matrix | C | G | | | |
| 001 | Before Filters | 1/9/25 | 8:40 | <input checked="" type="radio"/> A P | GW | | G | 2 | Meter Reading, EPA 8260 |
| | | | | A P | | | | | |
| | | | | A P | | | | | |
| 002 | Between Filters | 1/9/25 | 8:47 | <input checked="" type="radio"/> A P | GW | | G | 2 | EPA 8260 |
| | | | | A P | | | | | |
| 003 | After Filters | 1/9/25 | 8:45 | <input checked="" type="radio"/> A P | GW | | G | 2 | EPA 8260 |
| | | | | A P | | | | | |
| | | | | A P | | | | | |
| 004 | Trip Blank Lot # | | | A P | WA | | G | 1 | EPA 8260 |
| | | | | A P | | | | | |

Shipment Arrived Via:
 FedEx UPS Client AES Other: _____

Turnaround Time Requested:
 1 Day 3 Day Normal
 2 -Day 5 Day

Special Instructions/Remarks:
 Normal TAT
 October 2023-September 2024 ONLY
 Meter Reading: 10027.0

| | | | |
|--|--|-----------------|----------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) <i>D Coats</i> | Received for Laboratory by: <i>Ce</i> | Date 11/9/25 | Time 2:56pm |

Sample Temperature
 Ambient Chilled
 Chilling Process begun
 Notes: 4

Properly Preserved
 Y N
 Notes:

Received Within Holding Times
 Y N
 Notes:





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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



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314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 24, 2025

William Gorman
Curia Global, Inc.
33 Riverside Avenue
Rensselaer, NY 12144

TEL: (518)433-7772

Work Order No: 250220057
PO#: 250088

RE: Building 30
Monthly

Adirondack Environmental Services, Inc received 4 samples on 2/20/2025 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Daigneault", is written over a horizontal line.

Matthew Daigneault
Laboratory Manager

ELAP#: 10709

Curia Global, Inc.

Date: 24-Feb-25

Building 30

Lab WorkOrder: 250220057

Monthly

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

Definitions - RL: Reporting Limit DF: Dilution factor

| | |
|---|---|
| Qualifiers: ND : Not Detected at reporting limit | C: CCV below acceptable Limits |
| J: Analyte detected below quantitation limit | C+: CCV above acceptable Limits |
| B: Analyte detected in Blank | S: LCS Spike recovery is below acceptable limits |
| X : Exceeds maximum contamination limit | S+: LCS Spike recovery is above acceptable limits |
| H: Hold time exceeded | Z: Duplication outside acceptable limits |
| N: Matrix Spike below acceptable limits | T : Tentatively Identified Compound-Estimated |
| N+: Matrix Spike is above acceptable limits | E :Above quantitation range-Estimated |

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: 24-Feb-25

CLIENT: Curia Global, Inc.
Project: Building 30
 Monthly

LabWork Order: 250220057
PO#: 250088

Lab SampleID: 250220057-001
Client Sample ID: Before Filters

Collection Date: 2/20/2025 9:45:00 AM
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE

Analyst: **FLD**

| | | | | | | |
|---------------|--------------|--|--|-----|--|----------------------|
| Meter Reading | 12106 | | | gal | | 2/20/2025 9:45:00 AM |
|---------------|--------------|--|--|-----|--|----------------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|--------------|--------|--|------|-----|----------------------|
| Benzene | 170 | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| Toluene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| Chlorobenzene | 17000 | 120 | | µg/L | 250 | 2/21/2025 6:50:00 PM |
| Ethylbenzene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| m,p-Xylene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| o-Xylene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| 1,3-Dichlorobenzene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| 1,2-Dichlorobenzene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| 1,4-Dichlorobenzene | ND | 25 | | µg/L | 50 | 2/21/2025 4:56:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 81.4 | 74-127 | | %REC | 50 | 2/21/2025 4:56:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 83.9 | 74-127 | | %REC | 250 | 2/21/2025 6:50:00 PM |
| Surr: 4-Bromofluorobenzene | 116 | 74-128 | | %REC | 50 | 2/21/2025 4:56:00 PM |
| Surr: 4-Bromofluorobenzene | 112 | 74-128 | | %REC | 250 | 2/21/2025 6:50:00 PM |
| Surr: Toluene-d8 | 93.3 | 75-127 | | %REC | 50 | 2/21/2025 4:56:00 PM |
| Surr: Toluene-d8 | 97.2 | 75-127 | | %REC | 250 | 2/21/2025 6:50:00 PM |

Adirondack Environmental Services, Inc

Date: 24-Feb-25

CLIENT: Curia Global, Inc.
Project: Building 30
 Monthly

LabWork Order: 250220057
PO#: 250088

Lab SampleID: 250220057-002
Client Sample ID: Between Filters

Collection Date: 2/20/2025 9:40:00 AM
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|-------|--------|--|------|-----|----------------------|
| Benzene | 100 | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| Toluene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| Chlorobenzene | 11000 | 50 | | µg/L | 100 | 2/21/2025 6:25:00 PM |
| Ethylbenzene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| m,p-Xylene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| o-Xylene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| 1,3-Dichlorobenzene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| 1,2-Dichlorobenzene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| 1,4-Dichlorobenzene | ND | 2.5 | | µg/L | 5 | 2/21/2025 4:32:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.7 | 74-127 | | %REC | 5 | 2/21/2025 4:32:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 89.4 | 74-127 | | %REC | 100 | 2/21/2025 6:25:00 PM |
| Surr: 4-Bromofluorobenzene | 107 | 74-128 | | %REC | 5 | 2/21/2025 4:32:00 PM |
| Surr: 4-Bromofluorobenzene | 106 | 74-128 | | %REC | 100 | 2/21/2025 6:25:00 PM |
| Surr: Toluene-d8 | 87.6 | 75-127 | | %REC | 5 | 2/21/2025 4:32:00 PM |
| Surr: Toluene-d8 | 95.4 | 75-127 | | %REC | 100 | 2/21/2025 6:25:00 PM |

Lab SampleID: 250220057-003
Client Sample ID: After Filters

Collection Date: 2/20/2025 9:35:00 AM
Matrix: GROUNDWATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: **DZ**

| | | | | | | |
|-----------------------------|------|--------|--|------|---|----------------------|
| Benzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| Toluene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| Chlorobenzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| m,p-Xylene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| 1,3-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| 1,2-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| 1,4-Dichlorobenzene | ND | 0.5 | | µg/L | 1 | 2/21/2025 3:46:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 88.0 | 74-127 | | %REC | 1 | 2/21/2025 3:46:00 PM |
| Surr: 4-Bromofluorobenzene | 114 | 74-128 | | %REC | 1 | 2/21/2025 3:46:00 PM |
| Surr: Toluene-d8 | 99.7 | 75-127 | | %REC | 1 | 2/21/2025 3:46:00 PM |



314 North Pearl Street
 Albany, New York 12207
 518-434-4546 ♦ Fax: 518-434-0891

CHAIN OF CUSTODY RECORD

AES Work Order#: 290220057

EXPERIENCE IS THE SOLUTION

A full service analytical research laboratory offering solutions to environmental concerns

| Client Name: Curia Global Inc. | | Address: | | | | | | | |
|--|-------------------|--|----------------------|--|---|-----------------------|-------------|----------|-------------------------|
| Send Report to: | | Project Name (Location): Bldg. 30 - Monthly | | | Samplers Name: <i>Darren Coit</i> | | | | |
| Client Phone No.: | | PO #: | | | Samplers Signature: <i>[Signature]</i> | | | | |
| Client Fax No.: | | | | | | | | | |
| AES Sample ID | Client Sample ID: | Date Sampled | Time A=am P=pm | Sample Type | | | # of Cont's | Analysis | |
| | | | | Matrix | C | G | | | |
| 001 | Before Filters | 2/20/25 | 9:45 | <input checked="" type="checkbox"/> A <input type="checkbox"/> P | GW | | G | 2 | Meter Reading, EPA 8260 |
| | | | | <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P | | | | | |
| 002 | Between Filters | 2/20/25 | 9:40 | <input checked="" type="checkbox"/> A <input type="checkbox"/> P | GW | | G | 2 | EPA 8260 |
| | | | | <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P | | | | | |
| 003 | After Filters | 2/20/25 | 9:35 | <input checked="" type="checkbox"/> A <input type="checkbox"/> P | GW | | G | 2 | EPA 8260 |
| | | | | <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> A <input type="checkbox"/> P | | | | | |
| 004 | Trip Blank Lot # | 2/20/25 | | <input type="checkbox"/> A <input type="checkbox"/> P | WA | | G | 1 | EPA 8260 |
| | | | | <input type="checkbox"/> A <input type="checkbox"/> P | | | | | |
| Shipment Arrived Via: FedEx UPS Client <u>AES</u> Other: _____ | | | | Special Instructions/Remarks: Normal TAT October 2023-September 2024 ONLY Meter Reading: <u>12106</u> | | | | | |
| Turnaround Time Requested: <input checked="" type="checkbox"/> 1 Day <input checked="" type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> 2 -Day <input checked="" type="checkbox"/> 5 Day | | | | | | | | | |
| Relinquished by: (Signature) | | Received by: (Signature) | | | Date | Time | | | |
| Relinquished by: (Signature) | | Received by: (Signature) | | | Date | Time | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Received for Laboratory by: <i>[Signature]</i> | | | Date <u>2/20/25</u> | Time <u>3:25pm</u> | | | |
| Sample Temperature: Ambient <input checked="" type="checkbox"/> Chilled Chilling Process begun | | Properly Preserved <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | Received Within Holding Times <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | |
| Notes: <u>4</u> | | Notes: _____ | | | Notes: _____ | | | | |





Experience is the solution

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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2517431 |
| Client: | CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202 |
| ATTN: | Samantha Miller |
| Phone: | (315) 471-3920 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075104.001 |
| Report Date: | 04/02/25 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2517431-01 | TRIP BLANK | WATER | RENSSELAER, NY | 03/25/25 00:00 | 03/25/25 |
| L2517431-02 | BEFORE FILTERS | WATER | RENSSELAER, NY | 03/25/25 11:35 | 03/25/25 |
| L2517431-03 | BETWEEN FILTERS | WATER | RENSSELAER, NY | 03/25/25 11:40 | 03/25/25 |
| L2517431-04 | AFTER FILTERS | WATER | RENSSELAER, NY | 03/25/25 11:45 | 03/25/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

Case Narrative (continued)

Report Submission

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

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:  Cristin Walker

Title: Technical Director/Representative

Date: 04/02/25

ORGANICS

VOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-01
 Client ID: TRIP BLANK
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 00:00
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/30/25 11:21
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 70-130 |
| Dibromofluoromethane | 105 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-02 D
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 11:35
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/01/25 09:09
 Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 7800 | | ug/l | 120 | 35. | 50 |
| Benzene | 110 | | ug/l | 25 | 8.0 | 50 |
| Toluene | ND | | ug/l | 120 | 35. | 50 |
| Ethylbenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,2-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,3-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,4-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| p/m-Xylene | ND | | ug/l | 120 | 35. | 50 |
| o-Xylene | ND | | ug/l | 120 | 35. | 50 |
| Xylenes, Total | ND | | ug/l | 120 | 35. | 50 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-03 D
 Client ID: BETWEEN FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 11:40
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/30/25 12:40
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 3000 | | ug/l | 100 | 28. | 40 |
| Benzene | 40 | | ug/l | 20 | 6.4 | 40 |
| Toluene | ND | | ug/l | 100 | 28. | 40 |
| Ethylbenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,2-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,3-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,4-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| p/m-Xylene | ND | | ug/l | 100 | 28. | 40 |
| o-Xylene | ND | | ug/l | 100 | 28. | 40 |
| Xylenes, Total | ND | | ug/l | 100 | 28. | 40 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-04
 Client ID: AFTER FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 11:45
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 03/30/25 11:47
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/30/25 10:03
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG2047926-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/01/25 08:45
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG2047969-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 115 | | 70-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517431

Project Number: 075104.001

Report Date: 04/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG2047926-3 WG2047926-4 | | | | | | | | |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p/m-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |
| o-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 104 | | 104 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 93 | | 70-130 |
| Dibromofluoromethane | 103 | | 102 | | 70-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2047969-3 WG2047969-4 | | | | | | | | |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p/m-Xylene | 110 | | 110 | | 70-130 | 0 | | 20 |
| o-Xylene | 110 | | 110 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 105 | | 106 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 102 | | 70-130 |
| Dibromofluoromethane | 107 | | 104 | | 70-130 |



SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-02
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 11:35
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 03/31/25 13:51
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 03/28/25 11:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1820 | | ng/l | 139 | 31.4 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 36 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

SAMPLE RESULTS

Lab ID: L2517431-04
 Client ID: AFTER FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 03/25/25 11:45
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 03/31/25 14:16
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 03/28/25 11:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 2180 | | ng/l | 144 | 32.6 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 40 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/31/25 11:01
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 03/28/25 11:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 02,04 Batch: WG2046468-1 | | | | | |
| 1,4-Dioxane | ND | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 40 | | 15-110 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 02,04 Batch: WG2046468-2 WG2046468-3 | | | | | | | | |
| 1,4-Dioxane | 125 | | 127 | | 40-140 | 2 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------|------------------|------|-------------------|------|------------------------|
| 1,4-Dioxane-d8 | 41 | | 34 | | 15-110 |



Project Name: 2025 GWTS SAMPLING**Lab Number:** L2517431**Project Number:** 075104.001**Report Date:** 04/02/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2517431-01A | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-01B | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-02A | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-02B | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-02C | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-02D | Amber 250ml unpreserved | A | 7 | 7 | 4.2 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2517431-02E | Amber 250ml unpreserved | A | 7 | 7 | 4.2 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2517431-03A | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-03B | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-03C | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-04A | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-04B | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-04C | Vial HCl preserved | A | NA | | 4.2 | Y | Absent | | NYTCL-8260-R2(14) |
| L2517431-04D | Amber 250ml unpreserved | A | 7 | 7 | 4.2 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2517431-04E | Amber 250ml unpreserved | A | 7 | 7 | 4.2 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517431
Report Date: 04/02/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

|  NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 | Page 1 of 1 | Date Rec'd in Lab 3/26/25 | ALPHA Job # 12517431 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|--------------------------------|--|-----------|--------------------|------|---------------|--------------------|------|-------------|----------|-------|--------|-------------|----------|----------|------------|-----------|---|---|---|---|--|--|--|--|----|----------------|-----------|------|---|----|---|---|--|--|---|----|-----------------|-----------|------|---|----|---|---|--|--|---|----|---------------|-----------|------|---|----|---|---|--|--|---|
| | Project Information Project Name: 2025 GWTS Sampling Project Location: Pensselaer NY Project # 075104.001 (Use Project name as Project #) <input type="checkbox"/> | | Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other | | Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # 075104.001-01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Client Information Client: CHA Consulting Address: III winners circle Albany NY 12205 Phone: Fax: Email: smiller@chasolutions.com | | Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge | | Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: | | These samples have been previously analyzed by Alpha <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other project specific requirements/comments: CLIENT SPECIFIC VOCs = benzene, chloro benzene, ethylbenzene, toluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, xylene (m, p, o) | | ANALYSIS VOLS - 8260 1,4 DIOXANE - 8270 SIM | | | Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Please specify Metals or TAL. | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">VOLS</th> <th rowspan="2">1,4 DIOXANE</th> <th rowspan="2">8270 SIM</th> <th rowspan="2">Total</th> <th rowspan="2">Bottle</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>17431-01</td> <td>TRIP BLANK</td> <td>3.25.2025</td> <td>-</td> <td>W</td> <td>-</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>Before Filters</td> <td>3.25.2025</td> <td>1135</td> <td>W</td> <td>CH</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>03</td> <td>Between Filters</td> <td>3.25.2025</td> <td>1140</td> <td>W</td> <td>CH</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>04</td> <td>After Filters</td> <td>3.25.2025</td> <td>1145</td> <td>W</td> <td>CH</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table> | | | ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | VOLS | 1,4 DIOXANE | 8270 SIM | Total | Bottle | Date | Time | 17431-01 | TRIP BLANK | 3.25.2025 | - | W | - | X | | | | | 02 | Before Filters | 3.25.2025 | 1135 | W | CH | X | X | | | 5 | 03 | Between Filters | 3.25.2025 | 1140 | W | CH | X | X | | | 3 | 04 | After Filters | 3.25.2025 | 1145 | W | CH | X | X | | | 5 |
| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | | | Sampler's Initials | VOLS | | | | | | | | 1,4 DIOXANE | 8270 SIM | Total | Bottle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17431-01 | TRIP BLANK | 3.25.2025 | - | W | - | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | Before Filters | 3.25.2025 | 1135 | W | CH | X | X | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | Between Filters | 3.25.2025 | 1140 | W | CH | X | X | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | After Filters | 3.25.2025 | 1145 | W | CH | X | X | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle | Westboro: Certification No: MA935 Mansfield: Certification No: MA015 | Container Type V A Preservative B A | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: B Lyons | | Date/Time: 3/25 13:21 | Received By: B Lyons AAL | | Date/Time: 2/25 13:10 3/26 0:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2517434 |
| Client: | CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202 |
| ATTN: | Samantha Miller |
| Phone: | (315) 471-3920 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075104.001 |
| Report Date: | 04/16/25 |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: 2025 GWTS SAMPLING

Project Number: 075104.001

Lab Number: L2517434

Report Date: 04/16/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2517434-01 | BEFORE FILTERS | WATER | RENSSELEAR, NY | 03/25/25 11:35 | 03/25/25 |
| L2517434-02 | AFTER FILTERS | WATER | RENSSELEAR, NY | 03/25/25 11:45 | 03/25/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

Case Narrative (continued)

Report Submission

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

Perfluorinated Alkyl Acids by 1633

L2517434-01: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (216%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (218%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

The Extracted Internal Standard recovery for the WG2053575-2 LCS associated with L2517434-01 and -02 is outside the acceptance criteria for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (180%); however, all associated target analytes are within overall LCS criteria; therefore, no further action was taken.

The WG2053575-3 LCS recovery associated with L2517434-01 and -02 is above the acceptance criteria for perfluoropentanesulfonic acid (pfpes) (146%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original 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:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 04/16/25

ORGANICS

SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

SAMPLE RESULTS

Lab ID: L2517434-01
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:35
 Date Received: 03/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 04/16/25 01:07
 Analyst: ANH

Extraction Method: EPA 1633
 Extraction Date: 04/14/25 08:25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 16.1 | | ng/l | 6.29 | 0.519 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 18.5 | | ng/l | 3.14 | 0.354 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.35 | | ng/l | 1.57 | 0.393 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.29 | 0.896 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 13.5 | | ng/l | 1.57 | 0.244 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 1.28 | J | ng/l | 1.57 | 0.204 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 13.4 | | ng/l | 1.57 | 0.236 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 11.5 | | ng/l | 1.57 | 0.134 | 1 |
| Perfluorooctanoic Acid (PFOA) | 16.2 | | ng/l | 1.57 | 0.259 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.29 | 4.73 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.448 | JF | ng/l | 1.57 | 0.196 | 1 |
| Perfluorononanoic Acid (PFNA) | 3.67 | | ng/l | 1.57 | 0.259 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 23.7 | | ng/l | 1.57 | 0.259 | 1 |
| Perfluorodecanoic Acid (PFDA) | 0.519 | J | ng/l | 1.57 | 0.204 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.29 | 1.20 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.57 | 0.196 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.57 | 0.472 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.57 | 0.173 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.57 | 0.134 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | 0.707 | J | ng/l | 1.57 | 0.094 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.57 | 0.472 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.57 | 0.212 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.57 | 0.181 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.57 | 0.157 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.29 | 1.57 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.29 | 0.369 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.57 | 0.236 | 1 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

SAMPLE RESULTS

Lab ID: L2517434-01
Client ID: BEFORE FILTERS
Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:35
Date Received: 03/25/25
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 | 6.29 | 0.432 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.29 | 0.440 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.57 | 0.220 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.57 | 0.346 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 15.7 | 1.28 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 15.7 | 1.08 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.14 | 0.244 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.14 | 0.354 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 3.14 | 0.322 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.14 | 0.534 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.86 | 0.526 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 39.3 | 4.18 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 39.3 | 3.13 | 1 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

SAMPLE RESULTS

Lab ID: L2517434-01
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:35
 Date Received: 03/25/25
 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) | | | 89 | | 5-130 | |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | | | 82 | | 40-130 | |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | | | 82 | | 40-135 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | | | 216 | Q | 40-200 | |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | | | 89 | | 40-130 | |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | | | 87 | | 40-130 | |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | | | 90 | | 40-130 | |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | | | 89 | | 40-130 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | | | 218 | Q | 40-200 | |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | | | 79 | | 40-130 | |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | | | 69 | | 40-130 | |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | | | 65 | | 40-130 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | | | 143 | | 40-300 | |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | | | 107 | | 40-170 | |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | | | 63 | | 30-130 | |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | | | 58 | | 40-130 | |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | | | 99 | | 25-135 | |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | | | 63 | | 10-130 | |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | | | 59 | | 10-130 | |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | | | 84 | | 40-130 | |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | | | 47 | | 10-130 | |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | | | 49 | | 10-130 | |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | | | 49 | | 10-130 | |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | | | 46 | | 10-130 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

SAMPLE RESULTS

Lab ID: L2517434-02
Client ID: AFTER FILTERS
Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:45
Date Received: 03/25/25
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 144,1633
Analytical Date: 04/16/25 01:16
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 04/14/25 08:25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 23.4 | | ng/l | 6.21 | 0.512 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 33.1 | | ng/l | 3.10 | 0.349 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 0.854 | J | ng/l | 1.55 | 0.388 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.21 | 0.885 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 11.2 | | ng/l | 1.55 | 0.241 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 0.202 | J | ng/l | 1.55 | 0.202 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 4.95 | | ng/l | 1.55 | 0.233 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 1.99 | | ng/l | 1.55 | 0.132 | 1 |
| Perfluorooctanoic Acid (PFOA) | 3.76 | | ng/l | 1.55 | 0.256 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.21 | 4.67 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.55 | 0.194 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.450 | J | ng/l | 1.55 | 0.256 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 2.06 | | ng/l | 1.55 | 0.256 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.55 | 0.202 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.21 | 1.19 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.55 | 0.194 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.55 | 0.466 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.55 | 0.171 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.55 | 0.132 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.55 | 0.093 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.55 | 0.466 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.55 | 0.210 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.55 | 0.178 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.55 | 0.155 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.21 | 1.55 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.21 | 0.365 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.55 | 0.233 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2517434**Project Number:** 075104.001**Report Date:** 04/16/25**SAMPLE RESULTS**

Lab ID: L2517434-02
 Client ID: AFTER FILTERS
 Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:45
 Date Received: 03/25/25
 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 | 6.21 | 0.427 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.21 | 0.435 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.55 | 0.217 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.55 | 0.342 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 15.5 | 1.26 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 15.5 | 1.07 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.10 | 0.241 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.10 | 0.349 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 3.10 | 0.318 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.10 | 0.528 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.76 | 0.520 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 38.8 | 4.13 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 38.8 | 3.09 | 1 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

SAMPLE RESULTS

Lab ID: L2517434-02
Client ID: AFTER FILTERS
Sample Location: RENSSELEAR, NY

Date Collected: 03/25/25 11:45
Date Received: 03/25/25
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) | 87 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 91 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 84 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 108 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 94 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 90 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 85 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 84 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 95 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 76 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 77 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 74 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 71 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 132 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 73 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 80 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 82 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 72 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 79 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 90 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 63 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 71 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 62 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 62 | | 10-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 04/16/25 00:40
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 04/14/25 08:25

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2053575-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 6.40 | 0.528 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.60 | 0.400 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.60 | 0.248 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.60 | 0.208 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.60 | 0.240 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.60 | 0.264 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 04/16/25 00:40
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 04/14/25 08:25

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2053575-1 | | | | | |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 6.40 | 0.440 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 3.20 | 0.328 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 04/16/25 00:40
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 04/14/25 08:25

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2053575-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|-----------|-----------|---------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 89 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 91 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 78 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 80 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 94 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 90 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 86 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 82 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 85 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 86 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 82 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 77 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 76 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 157 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 77 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 91 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 83 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 77 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 75 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 90 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 60 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 69 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 66 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 68 | | 10-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| Parameter | Low Level LCS | Qual | Low Level LCSD | Qual | %Recovery | RPD | Qual | RPD |
|---|------------------|------|-------------------|------|-----------|-----|------|--------|
| | %Recovery | | %Recovery | | Limits | | | Limits |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2053575-2 LOW LEVEL | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 119 | | - | | 70-140 | | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 111 | | - | | 65-135 | | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 100 | | - | | 60-145 | | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 99 | | - | | 70-145 | | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 110 | | - | | 70-145 | | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 122 | | - | | 65-140 | | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 127 | | - | | 70-150 | | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 128 | | - | | 65-145 | | | 30 |
| Perfluorooctanoic Acid (PFOA) | 115 | | - | | 70-150 | | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 123 | | - | | 65-155 | | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 124 | | - | | 70-150 | | | 30 |
| Perfluorononanoic Acid (PFNA) | 109 | | - | | 70-150 | | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 112 | | - | | 55-150 | | | 30 |
| Perfluorodecanoic Acid (PFDA) | 117 | | - | | 70-140 | | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 116 | | - | | 60-150 | | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 123 | | - | | 65-145 | | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 110 | | - | | 50-140 | | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 108 | | - | | 70-145 | | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 125 | | - | | 60-145 | | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 117 | | - | | 70-145 | | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 115 | | - | | 70-145 | | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| 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): 01-02 Batch: WG2053575-2 LOW LEVEL | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 114 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 101 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 131 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 114 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 137 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 127 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 149 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 141 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 108 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 104 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 112 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 106 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 94 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 110 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 117 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 107 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 104 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 114 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 132 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| Parameter | Low Level LCS | | Low Level LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2053575-2 LOW LEVEL | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 90 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 91 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 92 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 92 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 93 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 86 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 81 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 89 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 89 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 88 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 77 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 82 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 88 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 180 | Q | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 84 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 95 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 85 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 91 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 87 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 90 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 67 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 68 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 71 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 72 | | | | 10-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2053575-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 126 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 118 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 123 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 126 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 115 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 146 | Q | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 121 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 142 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 114 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 120 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 119 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 125 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 109 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 118 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 108 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 96 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 93 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 113 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 89 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 104 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 88 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| Parameter | LCS %Recovery | Qual | LCS %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2053575-3 | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 112 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 112 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 103 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 122 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 121 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 98 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 124 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 96 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 103 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 96 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 99 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 101 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 109 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 113 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 118 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 109 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 107 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 113 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 91 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2517434

Project Number: 075104.001

Report Date: 04/16/25

| Parameter | LCS | | LCSD | | %Recovery | | RPD | RPD | |
|---|-----------|------|-----------|------|-----------|------|-----|--------|--|
| | %Recovery | Qual | %Recovery | Qual | Limits | Qual | | Limits | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2053575-3 | | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|------------------|------|-------------------|------|------------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 88 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 94 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 90 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 85 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 93 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 93 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 72 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 89 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 88 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 84 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 84 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 79 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 87 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 117 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 72 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 67 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 68 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 76 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 95 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 91 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 67 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 73 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 59 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 63 | | | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2517434**Project Number:** 075104.001**Report Date:** 04/16/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2517434-01A | Plastic 500ml unpreserved | A | NA | | 4.2 | Y | Absent | | A2-NY-1633(28) |
| L2517434-01B | Plastic 500ml unpreserved | A | NA | | 4.2 | Y | Absent | | A2-NY-1633(28) |
| L2517434-02A | Plastic 500ml unpreserved | A | NA | | 4.2 | Y | Absent | | A2-NY-1633(28) |
| L2517434-02B | Plastic 500ml unpreserved | A | NA | | 4.2 | Y | Absent | | A2-NY-1633(28) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Serial_No:04162512:14
Lab Number: L2517434
Report Date: 04/16/25

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-Chloroeicosafuoro-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 | PFEEESA | 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: 2025 GWTS SAMPLING
Project Number: 075104.001

Serial_No:04162512:14
Lab Number: L2517434
Report Date: 04/16/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2517434
Report Date: 04/16/25

REFERENCES

- 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

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2523770 |
| Client: | CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202 |
| ATTN: | Samantha Miller |
| Phone: | (315) 471-3920 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075104.001 |
| Report Date: | 05/01/25 |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2523770-01 | BEFORE FILTERS | WATER | RENSSELAER, NY | 04/17/25 12:25 | 04/17/25 |
| L2523770-02 | BETWEEN FILTERS | WATER | RENSSELAER, NY | 04/17/25 12:30 | 04/17/25 |
| L2523770-03 | AFTER FILTERS | WATER | RENSSELAER, NY | 04/17/25 12:35 | 04/17/25 |
| L2523770-04 | TRIP BLANK | WATER | RENSSELAER, NY | 04/17/25 00:00 | 04/17/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:  Tiffani Morrissey

Title: Technical Director/Representative

Date: 05/01/25

ORGANICS

VOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-01 D
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 12:25
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/27/25 16:41
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 6400 | | ug/l | 120 | 35. | 50 |
| Benzene | 82 | | ug/l | 25 | 8.0 | 50 |
| Toluene | ND | | ug/l | 120 | 35. | 50 |
| Ethylbenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,2-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,3-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| 1,4-Dichlorobenzene | ND | | ug/l | 120 | 35. | 50 |
| p/m-Xylene | ND | | ug/l | 120 | 35. | 50 |
| o-Xylene | ND | | ug/l | 120 | 35. | 50 |
| Xylenes, Total | ND | | ug/l | 120 | 35. | 50 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 87 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-02 D
 Client ID: BETWEEN FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 12:30
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/27/25 17:07
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 4000 | | ug/l | 100 | 28. | 40 |
| Benzene | 50 | | ug/l | 20 | 6.4 | 40 |
| Toluene | ND | | ug/l | 100 | 28. | 40 |
| Ethylbenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,2-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,3-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| 1,4-Dichlorobenzene | ND | | ug/l | 100 | 28. | 40 |
| p/m-Xylene | ND | | ug/l | 100 | 28. | 40 |
| o-Xylene | ND | | ug/l | 100 | 28. | 40 |
| Xylenes, Total | ND | | ug/l | 100 | 28. | 40 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 89 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-03
 Client ID: AFTER FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 12:35
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/27/25 17:35
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-04
 Client ID: TRIP BLANK
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 00:00
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/27/25 18:23
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 116 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 04/27/25 10:17
Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG2059436-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 115 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 04/27/25 11:55
Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG2059974-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 101 | | 70-130 |
| 4-Bromofluorobenzene | 88 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG2059436-3 WG2059436-4 | | | | | | | | |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 97 | | 100 | | 70-130 | 3 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p/m-Xylene | 105 | | 110 | | 70-130 | 5 | | 20 |
| o-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 102 | | 99 | | 70-130 |
| Toluene-d8 | 98 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 98 | | 70-130 |
| Dibromofluoromethane | 109 | | 106 | | 70-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG2059974-3 WG2059974-4 | | | | | | | | |
| Chlorobenzene | 94 | | 97 | | 75-130 | 3 | | 20 |
| Benzene | 95 | | 100 | | 70-130 | 5 | | 20 |
| Toluene | 97 | | 100 | | 70-130 | 3 | | 20 |
| Ethylbenzene | 95 | | 99 | | 70-130 | 4 | | 20 |
| 1,2-Dichlorobenzene | 93 | | 94 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 93 | | 95 | | 70-130 | 2 | | 20 |
| 1,4-Dichlorobenzene | 91 | | 96 | | 70-130 | 5 | | 20 |
| p/m-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| o-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,2-Dichloroethane-d4 | 100 | | 98 | | 70-130 |
| Toluene-d8 | 100 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 88 | | 88 | | 70-130 |
| Dibromofluoromethane | 102 | | 102 | | 70-130 |

SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-01
 Client ID: BEFORE FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 12:25
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 04/29/25 19:56
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 04/24/25 21:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 2000 | | ng/l | 150 | 33.9 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 32 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

SAMPLE RESULTS

Lab ID: L2523770-03
 Client ID: AFTER FILTERS
 Sample Location: RENSSELAER, NY

Date Collected: 04/17/25 12:35
 Date Received: 04/17/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 04/29/25 21:18
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 04/24/25 21:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 2380 | | ng/l | 150 | 33.9 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 31 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/29/25 16:45
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 04/24/25 21:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2058332-1 | | | | | |
| 1,4-Dioxane | ND | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 38 | | 15-110 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2058332-2 WG2058332-3 | | | | | | | | |
| 1,4-Dioxane | 138 | | 136 | | 40-140 | 1 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,4-Dioxane-d8 | 38 | | 39 | | 15-110 |



Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523770**Project Number:** 075104.001**Report Date:** 05/01/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| B | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2523770-01A | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-01B | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-01C | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-01D | Amber 250ml unpreserved | B | 7 | 7 | 4.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2523770-01E | Amber 250ml unpreserved | B | 7 | 7 | 4.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2523770-02A | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-02B | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-02C | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-03A | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-03B | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-03C | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-03D | Amber 250ml unpreserved | B | 7 | 7 | 4.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2523770-03E | Amber 250ml unpreserved | B | 7 | 7 | 4.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2523770-04A | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2523770-04B | Vial HCl preserved | B | NA | | 4.1 | Y | Absent | | NYTCL-8260-R2(14) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001

Lab Number: L2523770
Report Date: 05/01/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|----------------|---|-------------------------------|---|-----|--------|--|--|--|--|--------------------|---|--|--|--|-----------------------|--|---------------------|--|--|--|
|  NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 | Page) of) | Date Rec'd in Lab 4/22/25 | ALPHA Job # 2523770 | | | | | | | | | | | | | | | | | | |
| | | Project Information Project Name: 2025 GWTS sampling Project Location: Rensselaer NY Project # 075704.001, 0262505 (Use Project name as Project #) <input type="checkbox"/> | | Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other | | Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # 075704.001-01 | | | | | | | | | | | | | | | | | |
| Client Information Client: CHA consulting Address: III winners circle Albany NY 12205 Phone: Fax: Email: smiller@chasolutions.com | | Project Manager: Samantha Miller ALPHAQuote #: 30091 Turn-Around Time: Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: | | Regulatory Requirement <input checked="" type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge | | Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other: | | | | | | | | | | | | | | | | | |
| These samples have been previously analyzed by Alpha <input type="checkbox"/> | | | | | | ANALYSIS | | | | | | Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below) | | Total Bottles | | | | | | | | | |
| Other project specific requirements/comments: client specific VOCs = benzene, chlorobenzene, ethylbenzene, toluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, xylene (m,p,o) | | | | | | Please specify Metals or TAL. | | | | | | Sample Specific Comments | | | | | | | | | | | |
| ALPHA Lab ID (Lab Use Only) | | Sample ID | | Collection Date Time | | | | | | | | Sample Matrix | Sampler's Initials | VOCs - 8260 client specific - 1,4 Dioxane - 8270 | | | | | | | | | |
| 23770 -01 | | BEFORE FILTERS | | 4.17.25 12:25 | | GW | CRH | X X | | | | | | 5 | | | | | | | | | |
| -02 | | BETWEEN FILTERS | | ↓ 12:30 | | ↓ | ↓ | X X | | | | | | 3 | | | | | | | | | |
| -03 | | AFTER FILTERS | | ↓ 12:35 | | ↓ | ↓ | X X | | | | | | 5 | | | | | | | | | |
| -04 | | TRIP BLANK | | - - | | - | - | X | | | | | | 2 | | | | | | | | | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | | | | | | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle | | | | | | Westboro: Certification No: MA935 Mansfield: Certification No: MA015 | | | | | | Container Type V A | | Preservative B A | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) | |
| Relinquished By: | | Date/Time | | Received By: | | Date/Time | | | | | | | | | | | | | | | | | |
| [Signature] TACK | | 4/17/25 15:25 | | [Signature] TACK | | 4/17/25 15:23 | | | | | | | | | | | | | | | | | |
| [Signature] | | 4/17/25 15:30 | | [Signature] | | 4/18/25 0200 | | | | | | | | | | | | | | | | | |
| [Signature] | | 4/22/25 15:00 | | [Signature] | | 4/22/25 15:15 | | | | | | | | | | | | | | | | | |
| [Signature] | | 4/22/25 16:30 | | [Signature] | | 4/22/25 16:30 | | | | | | | | | | | | | | | | | |



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2523772 |
| Client: | CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202 |
| ATTN: | Samantha Miller |
| Phone: | (315) 471-3920 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075104.001.0202505 |
| Report Date: | 05/12/25 |

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2523772-01 | BEFORE FILTERS | WATER | RENSELLAER, NY | 04/17/25 12:25 | 04/17/25 |
| L2523772-02 | AFTER FILTERS | WATER | RENSELLAER, NY | 04/17/25 12:35 | 04/17/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

Case Narrative (continued)

Report Submission

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

Perfluorinated Alkyl Acids by 1633

L2523772-01RE: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2523772-01RE and -02RE: The sample was re-extracted within holding time due to QC failures in the original extraction. The results of the re-extraction are reported.

WG2063401-2R: 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:

 Ashley Leitao

Title: Technical Director/Representative

Date: 05/12/25

ORGANICS

SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**SAMPLE RESULTS**

Lab ID: L2523772-01 RE

Date Collected: 04/17/25 12:25

Client ID: BEFORE FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 05/07/25 09:00

Analytical Date: 05/09/25 11:17

Analyst: AC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 13.8 | J | ng/l | 32.0 | 2.64 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 17.8 | | ng/l | 16.0 | 1.80 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 8.00 | 2.00 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 32.0 | 4.56 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 14.7 | | ng/l | 8.00 | 1.24 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 1.92 | J | ng/l | 8.00 | 1.04 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 12.7 | | ng/l | 8.00 | 1.20 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 15.7 | | ng/l | 8.00 | 0.680 | 1 |
| Perfluorooctanoic Acid (PFOA) | 17.8 | | ng/l | 8.00 | 1.32 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 32.0 | 24.1 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 8.00 | 1.00 | 1 |
| Perfluorononanoic Acid (PFNA) | 3.32 | J | ng/l | 8.00 | 1.32 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 22.4 | | ng/l | 8.00 | 1.32 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 8.00 | 1.04 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 32.0 | 6.12 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 8.00 | 1.00 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 8.00 | 2.40 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 8.00 | 0.880 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 8.00 | 0.680 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 8.00 | 0.480 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 8.00 | 2.40 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 8.00 | 1.08 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 8.00 | 0.920 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 8.00 | 0.800 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 32.0 | 8.00 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 32.0 | 1.88 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 8.00 | 1.20 | 1 |



Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**SAMPLE RESULTS**

Lab ID: L2523772-01 RE

Date Collected: 04/17/25 12:25

Client ID: BEFORE FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, 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 | 32.0 | 2.20 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 32.0 | 2.24 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 8.00 | 1.12 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 8.00 | 1.76 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 80.0 | 6.52 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 80.0 | 5.52 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 16.0 | 1.24 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 16.0 | 1.80 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 16.0 | 1.64 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 16.0 | 2.72 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 40.0 | 2.68 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 200 | 21.3 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 200 | 15.9 | 1 |

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

SAMPLE RESULTS

Lab ID: L2523772-01 RE

Date Collected: 04/17/25 12:25

Client ID: BEFORE FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, 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) | 101 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 100 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 98 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 99 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 105 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 104 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 97 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 97 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 93 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 94 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 91 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 90 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 73 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 57 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 76 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 58 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 53 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 68 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 54 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 103 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 53 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 57 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 59 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 62 | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**SAMPLE RESULTS**

Lab ID: L2523772-02 RE

Date Collected: 04/17/25 12:35

Client ID: AFTER FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 05/07/25 09:00

Analytical Date: 05/09/25 11:26

Analyst: AC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 21.0 | | ng/l | 6.40 | 0.528 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 35.0 | | ng/l | 3.20 | 0.360 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 0.800 | J | ng/l | 1.60 | 0.400 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 10.3 | | ng/l | 1.60 | 0.248 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 0.208 | J | ng/l | 1.60 | 0.208 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 3.14 | | ng/l | 1.60 | 0.240 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 1.53 | J | ng/l | 1.60 | 0.136 | 1 |
| Perfluorooctanoic Acid (PFOA) | 2.72 | | ng/l | 1.60 | 0.264 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.304 | JF | ng/l | 1.60 | 0.264 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 1.35 | J | ng/l | 1.60 | 0.264 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 | 1 |



Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**SAMPLE RESULTS**

Lab ID: L2523772-02 RE

Date Collected: 04/17/25 12:35

Client ID: AFTER FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, 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 | 6.40 | 0.440 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 3.20 | 0.328 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**SAMPLE RESULTS**

Lab ID: L2523772-02 RE

Date Collected: 04/17/25 12:35

Client ID: AFTER FILTERS

Date Received: 04/17/25

Sample Location: RENSELLAER, 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) | 97 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 94 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 89 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 87 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 96 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 114 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 86 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 101 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 81 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 98 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 91 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 82 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 69 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 88 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 71 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 67 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 57 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 63 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 57 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 103 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 51 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 57 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 64 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 70 | | 10-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/25 10:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/25 09:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2063401-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 6.40 | 0.528 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.60 | 0.400 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.60 | 0.248 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.60 | 0.208 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.60 | 0.240 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.60 | 0.264 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 |



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 05/09/25 10:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/25 09:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2063401-1 | | | | | |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 6.40 | 0.440 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 3.20 | 0.328 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/25 10:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/25 09:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2063401-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|-----------|-----------|---------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 98 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 95 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 95 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 83 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 102 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 100 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 92 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 87 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 79 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 98 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 88 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 77 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 66 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 53 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 75 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 75 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 58 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 68 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 57 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 97 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 49 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 55 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 67 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 72 | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| Parameter | Low Level | Qual | Low Level | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---------------|------|---------------|------|------------------|-----|------|------------|
| | LCS %Recovery | | LCS %Recovery | | | | | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2063401-2 LOW LEVEL | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 108 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 113 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 118 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 112 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 121 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 125 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 102 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 124 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 104 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 120 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 121 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 109 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 108 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 123 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 124 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 106 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 125 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 117 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 81 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 110 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 105 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| 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): 01-02 Batch: WG2063401-2 LOW LEVEL | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 104 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 80 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 125 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 120 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 137 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 74 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 112 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 85 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 114 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 131 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 109 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 108 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 112 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 116 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 124 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 111 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 120 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 126 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 100 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| Parameter | Low Level LCS | | Low Level LCSD | | %Recovery Limits | | RPD | RPD Limits | |
|---|------------------|------|-------------------|------|---------------------|--|-----|---------------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | | Qual | Limits |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2063401-2 LOW LEVEL | | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 103 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 105 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 105 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 98 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 105 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 104 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 101 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 108 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 82 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 99 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 85 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 91 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 75 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 47 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 77 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 67 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 51 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 68 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 50 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 104 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 50 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 52 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 62 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 66 | | | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2063401-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 103 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 110 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 104 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 104 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 106 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 105 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 92 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 108 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 97 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 114 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 110 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 96 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 102 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 100 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 104 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 104 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 115 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 103 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 92 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 100 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 111 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2063401-3 | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 106 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 86 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 98 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 106 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 112 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 83 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 107 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 96 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 91 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 97 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 98 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 98 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 97 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 111 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 109 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 101 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 116 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 117 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 86 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2523772

Project Number: 075104.001.0202505

Report Date: 05/12/25

| Parameter | LCS %Recovery | Qual | LCS %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2063401-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCS %Recovery | Qual | Acceptance Criteria |
|---|------------------|------|------------------|------|------------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 93 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 89 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 87 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 81 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 90 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 94 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 85 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 89 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 67 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 97 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 82 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 86 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 73 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 51 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 77 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 74 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 52 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 69 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 61 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 99 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 65 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 69 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 75 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 81 | | | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2523772**Project Number:** 075104.001.0202505**Report Date:** 05/12/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2523772-01A | Plastic 500ml unpreserved | A | NA | | 3.8 | Y | Absent | | A2-NY-1633(28) |
| L2523772-01B | Plastic 500ml unpreserved | A | NA | | 3.8 | Y | Absent | | A2-NY-1633(28) |
| L2523772-02A | Plastic 500ml unpreserved | A | NA | | 3.8 | Y | Absent | | A2-NY-1633(28) |
| L2523772-02B | Plastic 500ml unpreserved | A | NA | | 3.8 | Y | Absent | | A2-NY-1633(28) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Serial_No:05122510:37
Lab Number: L2523772
Report Date: 05/12/25

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-Chloroeicosafuoro-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: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Serial_No:05122510:37
Lab Number: L2523772
Report Date: 05/12/25

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: 2025 GWTS SAMPLING
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GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 2025 GWTS SAMPLING
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 2025 GWTS SAMPLING
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2523772
Report Date: 05/12/25

REFERENCES

- 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

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2530811 |
| Client: | CHA Companies 3 Winners Circle Albany, NY 12205 |
| ATTN: | Samantha Miller |
| Phone: | (518) 453-8749 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075104.001.0202505 |
| Report Date: | 06/02/25 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2530811-01 | BEFORE FILTER | WATER | RENSSELAER, NY | 05/16/25 10:50 | 05/16/25 |
| L2530811-02 | BETWEEN FILTER | WATER | RENSSELAER, NY | 05/16/25 11:00 | 05/16/25 |
| L2530811-03 | AFTER FILTER | WATER | RENSSELAER, NY | 05/16/25 11:05 | 05/16/25 |
| L2530811-04 | TRIP BLANK | WATER | RENSSELAER, NY | 05/16/25 00:00 | 05/16/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Case Narrative (continued)

Report Submission

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

Perfluorinated Alkyl Acids by 1633

L2530811-01: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-¹³C₂]hexanesulfonic acid (m2-4:2fts) (213%) and 1h,1h,2h,2h-perfluoro[1,2-¹³C₂]octanesulfonic acid (m2-6:2fts) (216%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

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

Authorized Signature:  Tiffani Morrissey

Title: Technical Director/Representative

Date: 06/02/25

ORGANICS

VOLATILES

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-01 D

Date Collected: 05/16/25 10:50

Client ID: BEFORE FILTER

Date Received: 05/16/25

Sample Location: RENSSELAER, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 05/29/25 14:53

Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 3400 | | ug/l | 62 | 18. | 25 |
| Benzene | 40 | | ug/l | 12 | 4.0 | 25 |
| Toluene | ND | | ug/l | 62 | 18. | 25 |
| Ethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,3-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,4-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| p/m-Xylene | ND | | ug/l | 62 | 18. | 25 |
| o-Xylene | ND | | ug/l | 62 | 18. | 25 |
| Xylenes, Total | ND | | ug/l | 62 | 18. | 25 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 88 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2530811-02 D
 Client ID: BETWEEN FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:00
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 05/29/25 15:18
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 380 | | ug/l | 6.2 | 1.8 | 2.5 |
| Benzene | 5.8 | | ug/l | 1.2 | 0.40 | 2.5 |
| Toluene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Ethylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,3-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,4-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| p/m-Xylene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| o-Xylene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Xylenes, Total | ND | | ug/l | 6.2 | 1.8 | 2.5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 88 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2530811-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:05
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 05/29/25 15:44
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 7.2 | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 114 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2530811-04
 Client ID: TRIP BLANK
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 00:00
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 05/30/25 16:21
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/29/25 08:57
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG2072623-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/30/25 12:58
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG2073457-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG2072623-3 WG2072623-4 | | | | | | | | |
| Chlorobenzene | 110 | | 100 | | 75-130 | 10 | | 20 |
| Benzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Toluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| p/m-Xylene | 110 | | 105 | | 70-130 | 5 | | 20 |
| o-Xylene | 105 | | 100 | | 70-130 | 5 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 95 | | 96 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 93 | | 70-130 |
| Dibromofluoromethane | 101 | | 101 | | 70-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG2073457-3 WG2073457-4 | | | | | | | | |
| Chlorobenzene | 110 | | 110 | | 75-130 | 0 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p/m-Xylene | 115 | | 110 | | 70-130 | 4 | | 20 |
| o-Xylene | 110 | | 110 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 92 | | 92 | | 70-130 |
| Toluene-d8 | 101 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 100 | | 70-130 |
| Dibromofluoromethane | 100 | | 98 | | 70-130 |



SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2530811-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 10:50
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 05/28/25 04:13
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 05/23/25 12:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 913. | | ng/l | 147 | 33.2 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 40 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 10:50
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 05/23/25 20:29
 Analyst: SL

Extraction Method: EPA 1633
 Extraction Date: 05/23/25 07:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 12.2 | | ng/l | 5.98 | 0.493 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 15.2 | | ng/l | 2.99 | 0.336 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.44 | | ng/l | 1.49 | 0.374 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 5.98 | 0.852 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 13.4 | | ng/l | 1.49 | 0.232 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 1.41 | J | ng/l | 1.49 | 0.194 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 11.6 | | ng/l | 1.49 | 0.224 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 15.4 | | ng/l | 1.49 | 0.127 | 1 |
| Perfluorooctanoic Acid (PFOA) | 14.3 | | ng/l | 1.49 | 0.246 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 5.98 | 4.50 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.642 | J | ng/l | 1.49 | 0.187 | 1 |
| Perfluorononanoic Acid (PFNA) | 3.62 | | ng/l | 1.49 | 0.246 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 26.5 | | ng/l | 1.49 | 0.246 | 1 |
| Perfluorodecanoic Acid (PFDA) | 0.381 | J | ng/l | 1.49 | 0.194 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 5.98 | 1.14 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.49 | 0.187 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.49 | 0.448 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.49 | 0.164 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.49 | 0.127 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | 0.321 | J | ng/l | 1.49 | 0.090 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.49 | 0.448 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.49 | 0.202 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.49 | 0.172 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.49 | 0.149 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 5.98 | 1.49 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 5.98 | 0.351 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.49 | 0.224 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 10:50
 Date Received: 05/16/25
 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 | 5.98 | 0.411 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 5.98 | 0.418 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.49 | 0.209 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.49 | 0.329 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 14.9 | 1.22 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 14.9 | 1.03 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.99 | 0.232 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.99 | 0.336 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 2.99 | 0.306 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.99 | 0.508 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.47 | 0.500 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 37.4 | 3.97 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 37.4 | 2.97 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-01

Date Collected: 05/16/25 10:50

Client ID: BEFORE FILTER

Date Received: 05/16/25

Sample Location: RENSSELAER, 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) | | | 90 | | 5-130 | |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | | | 84 | | 40-130 | |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | | | 87 | | 40-135 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | | | 213 | Q | 40-200 | |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | | | 87 | | 40-130 | |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | | | 91 | | 40-130 | |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | | | 85 | | 40-130 | |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | | | 95 | | 40-130 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | | | 216 | Q | 40-200 | |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | | | 72 | | 40-130 | |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | | | 81 | | 40-130 | |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | | | 83 | | 40-130 | |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | | | 148 | | 40-300 | |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | | | 85 | | 40-170 | |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | | | 72 | | 30-130 | |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | | | 66 | | 40-130 | |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | | | 86 | | 25-135 | |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | | | 69 | | 10-130 | |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | | | 62 | | 10-130 | |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | | | 75 | | 40-130 | |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | | | 57 | | 10-130 | |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | | | 57 | | 10-130 | |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | | | 58 | | 10-130 | |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | | | 54 | | 10-130 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:05
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 05/28/25 04:37
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 05/23/25 12:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 2520 | | ng/l | 142 | 32.0 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 40 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:05
 Date Received: 05/16/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 05/23/25 20:38
 Analyst: SL

Extraction Method: EPA 1633
 Extraction Date: 05/23/25 07:45

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 23.6 | | ng/l | 5.89 | 0.486 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 39.0 | | ng/l | 2.94 | 0.331 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 0.655 | J | ng/l | 1.47 | 0.368 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 5.89 | 0.839 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 7.93 | | ng/l | 1.47 | 0.228 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.47 | 0.191 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 2.08 | | ng/l | 1.47 | 0.221 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 0.626 | J | ng/l | 1.47 | 0.125 | 1 |
| Perfluorooctanoic Acid (PFOA) | 3.05 | | ng/l | 1.47 | 0.243 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 5.89 | 4.43 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.47 | 0.184 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.47 | 0.243 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 0.728 | J | ng/l | 1.47 | 0.243 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.47 | 0.191 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 5.89 | 1.13 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.47 | 0.184 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.47 | 0.442 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.47 | 0.162 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.47 | 0.125 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.47 | 0.088 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.47 | 0.442 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.47 | 0.199 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.47 | 0.169 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.47 | 0.147 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 5.89 | 1.47 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 5.89 | 0.346 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.47 | 0.221 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:05
 Date Received: 05/16/25
 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 | 5.89 | 0.405 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 5.89 | 0.412 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.47 | 0.206 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.47 | 0.324 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 14.7 | 1.20 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 14.7 | 1.02 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.94 | 0.228 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.94 | 0.331 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 2.94 | 0.302 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.94 | 0.500 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.36 | 0.493 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 36.8 | 3.92 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 36.8 | 2.93 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**SAMPLE RESULTS**

Lab ID: L2530811-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER, NY

Date Collected: 05/16/25 11:05
 Date Received: 05/16/25
 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) | 97 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 89 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 91 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 99 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 93 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 90 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 88 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 91 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 103 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 86 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 94 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 87 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 81 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 75 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 79 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 73 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 73 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 67 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 71 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 78 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 57 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 58 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 57 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 55 | | 10-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/23/25 19:35
Analyst: SL

Extraction Method: EPA 1633
Extraction Date: 05/23/25 07:45

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2070298-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 6.40 | 0.528 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.60 | 0.400 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.60 | 0.248 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.60 | 0.208 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.60 | 0.240 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.60 | 0.264 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorooctanesulfonic Acid (PFOS) | 0.264 | J | ng/l | 1.60 | 0.264 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/23/25 19:35
Analyst: SL

Extraction Method: EPA 1633
Extraction Date: 05/23/25 07:45

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2070298-1 | | | | | |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 6.40 | 0.440 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 3.20 | 0.328 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/23/25 19:35
Analyst: SL

Extraction Method: EPA 1633
Extraction Date: 05/23/25 07:45

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2070298-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|-----------|-----------|---------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 92 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 88 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 97 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 98 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 91 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 89 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 91 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 93 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 104 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 91 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 92 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 86 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 109 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 71 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 82 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 78 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 77 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 85 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 83 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 82 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 42 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 44 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 59 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 56 | | 10-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E-SIM
Analytical Date: 05/28/25 03:00
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 05/23/25 12:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2070514-1 | | | | | |
| 1,4-Dioxane | ND | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 44 | | 15-110 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| 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): 01,03 Batch: WG2070298-2 LOW LEVEL | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 103 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 99 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 106 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 99 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 99 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 99 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 107 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 102 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 100 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 120 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 93 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 92 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 107 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 108 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 115 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 80 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 106 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 112 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 88 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 108 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 126 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| 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): 01,03 Batch: WG2070298-2 LOW LEVEL | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 107 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 116 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 104 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 110 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 118 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 84 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 107 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 98 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 112 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 119 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 112 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 114 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 102 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 106 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 100 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 88 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 87 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 94 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 84 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| Parameter | Low Level LCS | | Low Level LCSD | | %Recovery Limits | | RPD | RPD Limits | |
|---|------------------|------|-------------------|------|---------------------|--|-----|---------------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | | Qual | Limits |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2070298-2 LOW LEVEL | | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 80 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 75 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 84 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 91 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 79 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 76 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 82 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 80 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 83 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 77 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 79 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 75 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 81 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 60 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 72 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 73 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 60 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 66 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 69 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 67 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 46 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 46 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 63 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 62 | | | | 10-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2070298-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 107 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 108 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 104 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 114 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 99 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 109 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 105 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 103 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 98 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 114 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 114 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 102 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 110 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 105 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 113 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 97 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 113 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 108 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 92 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 119 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 109 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2070298-3 | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 112 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 105 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 114 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 109 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 106 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 89 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 111 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 98 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 112 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 117 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 112 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 120 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 110 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 111 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 105 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 87 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 94 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 90 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 71 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2530811

Project Number: 075104.001.0202505

Report Date: 06/02/25

| Parameter | LCS | | LCSD | | %Recovery | | RPD | RPD | |
|---|-----------|------|-----------|------|-----------|------|-----|--------|--|
| | %Recovery | Qual | %Recovery | Qual | Limits | Qual | | Limits | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2070298-3 | | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|------------------|------|-------------------|------|------------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 92 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 86 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 102 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 97 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 96 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 96 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 96 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 88 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 99 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 90 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 86 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 85 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 89 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 66 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 76 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 66 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 69 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 71 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 68 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 82 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 46 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 46 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 59 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 57 | | | | 10-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2070514-2 WG2070514-3 | | | | | | | | |
| 1,4-Dioxane | 117 | | 117 | | 40-140 | 0 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------|------------------|------|-------------------|------|------------------------|
| 1,4-Dioxane-d8 | 44 | | 46 | | 15-110 |



Project Name: 2025 GWTS SAMPLING**Lab Number:** L2530811**Project Number:** 075104.001.0202505**Report Date:** 06/02/25**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(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2530811-01A | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-01B | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-01C | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-01D | Amber 250ml unpreserved | A | 7 | 7 | 3.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2530811-01E | Amber 250ml unpreserved | A | 7 | 7 | 3.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2530811-01F | Plastic 500ml unpreserved | B | NA | | 4.5 | Y | Absent | | A2-NY-1633(28) |
| L2530811-01G | Plastic 500ml unpreserved | B | NA | | 4.5 | Y | Absent | | A2-NY-1633(28) |
| L2530811-02A | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-02B | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-02C | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-03A | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-03B | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-03C | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-03D | Amber 250ml unpreserved | A | 7 | 7 | 3.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2530811-03E | Amber 250ml unpreserved | A | 7 | 7 | 3.1 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2530811-03F | Plastic 500ml unpreserved | B | NA | | 4.5 | Y | Absent | | A2-NY-1633(28) |
| L2530811-03G | Plastic 500ml unpreserved | B | NA | | 4.5 | Y | Absent | | A2-NY-1633(28) |
| L2530811-04A | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L2530811-04B | Vial HCl preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260-R2(14) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Serial_No:06022517:45
Lab Number: L2530811
Report Date: 06/02/25

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-Chloroeicosafuoro-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: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Serial_No:06022517:45
Lab Number: L2530811
Report Date: 06/02/25

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: 2025 GWTS SAMPLING
Project Number: 075104.001.0202505

Lab Number: L2530811
Report Date: 06/02/25

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



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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 2025 GWTS SAMPLING
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
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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

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

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Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, **LCHAT 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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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**

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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



**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-8193

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 5/17/25

ALPHA Job #
L2530811

Project Information
 Project Name: 2025 GWTS Sampling
 Project Location: Rensselaer, NY
 Project # 075109.001.0202505
 (Use Project name as Project #)
 Project Manager: Samantha Miller
 ALPHAQuote #: 30091
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 # 075109.001-01
Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

Client Information
 Client: CHA CONSULTING
 Address: 111 WINNERS CIRCU
ALBANY NY 12205
 Phone:
 Fax:
 Email: SMILLER@CHASOLUTIONS.COM

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
 Please specify Metals or TAL.

ANALYSIS

| | | | | | | | | | | | | | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PFAS - 1633 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)
Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | | | | | | | | | | | | | |
|--------------------------------|----------------------|----------------|--------------|---------------|--------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | Date | Time | | | | | | | | | | | | | | | | | |
| <u>30811-01</u> | <u>Before Filter</u> | <u>5.16.25</u> | <u>10:50</u> | <u>W</u> | <u>CRH</u> | <u>X</u> | | | | | | | | | | | | | | |
| <u>03</u> | <u>AFTER FILTER</u> | <u>↓</u> | <u>11:05</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 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 P
 Preservative A

| Relinquished By: | Date/Time | Received By: | Date/Time |
|--------------------|----------------------|--------------------|----------------------|
| <u>[Signature]</u> | <u>5/16/25 12:00</u> | <u>[Signature]</u> | <u>5/16/25 12:00</u> |
| <u>[Signature]</u> | <u>5/16/25 12:00</u> | <u>[Signature]</u> | <u>5/16/25 12:00</u> |
| <u>[Signature]</u> | <u>5/17/25 2:10</u> | <u>[Signature]</u> | <u>5/17/25 2:10</u> |

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.)



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2537493 |
| Client: | CHA Companies 3 Winners Circle Albany, NY 12205 |
| ATTN: | Samantha Miller |
| Phone: | (518) 453-8749 |
| Project Name: | 2025 GWTS SAMPLING |
| Project Number: | 075704.001.0202505 |
| Report Date: | 07/08/25 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

| Lab Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2537493-01 | BEFORE FILTER | WATER | RENSSELAER NY | 06/13/25 11:10 | 06/13/25 |
| L2537493-02 | BETWEEN FILTER | WATER | RENSSELAER NY | 06/13/25 11:20 | 06/13/25 |
| L2537493-03 | AFTER FILTER | WATER | RENSSELAER NY | 06/13/25 11:30 | 06/13/25 |
| L2537493-04 | TRIP BLANK | WATER | RENSSELAER NY | 06/13/25 00:00 | 06/13/25 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Case Narrative (continued)

Report Submission

July 08, 2025: This final report includes the results of all requested analyses.

July 01, 2025: 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.

1,4-Dioxane by 8270-SIM

The WG2081358-1 Method Blank associated with L2537493-01 and -03 has a concentration above the reporting limit. The sample was re-extracted with the method required holding time exceeded and the associated WG2083122-1 Method Blank was non-detect. The results of both extractions are reported. The original sample result is reported with a "B" qualifier.

Perfluorinated Alkyl Acids by 1633

L2537493-01: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2537493-01: The Extracted Internal Standard recoveries were below the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]decanesulfonic acid (m2-8:2fts) (38%) and n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (27%); however, the associated target analytes are not reported from this analysis.

L2537493-01RE: The sample was re-extracted at lesser volume due to EIS failure in the original extraction. The results of the re-extraction are reported for the associated target compounds.

WG2084854-2: 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: 07/08/25

ORGANICS

VOLATILES

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

SAMPLE RESULTS

Lab ID: L2537493-01 D
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:10
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 06/24/25 20:19
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 2600 | | ug/l | 62 | 18. | 25 |
| Benzene | 29 | | ug/l | 12 | 4.0 | 25 |
| Toluene | ND | | ug/l | 62 | 18. | 25 |
| Ethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,3-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,4-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| p/m-Xylene | ND | | ug/l | 62 | 18. | 25 |
| o-Xylene | ND | | ug/l | 62 | 18. | 25 |
| Xylenes, Total | ND | | ug/l | 62 | 18. | 25 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 91 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

SAMPLE RESULTS

Lab ID: L2537493-02 D
 Client ID: BETWEEN FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:20
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 06/24/25 19:54
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | 2200 | | ug/l | 62 | 18. | 25 |
| Benzene | 25 | | ug/l | 12 | 4.0 | 25 |
| Toluene | ND | | ug/l | 62 | 18. | 25 |
| Ethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,3-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,4-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| p/m-Xylene | ND | | ug/l | 62 | 18. | 25 |
| o-Xylene | ND | | ug/l | 62 | 18. | 25 |
| Xylenes, Total | ND | | ug/l | 62 | 18. | 25 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

SAMPLE RESULTS

Lab ID: L2537493-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:30
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 06/24/25 19:29
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 115 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 70-130 |
| Dibromofluoromethane | 116 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

SAMPLE RESULTS

Lab ID: L2537493-04
 Client ID: TRIP BLANK
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 00:00
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 06/24/25 19:04
 Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 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 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 90 | | 70-130 |
| Dibromofluoromethane | 114 | | 70-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 06/24/25 12:01
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG2084217-5 | | | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG2084217-3 WG2084217-4 | | | | | | | | |
| Chlorobenzene | 95 | | 93 | | 75-130 | 2 | | 20 |
| Benzene | 93 | | 91 | | 70-130 | 2 | | 20 |
| Toluene | 93 | | 94 | | 70-130 | 1 | | 20 |
| Ethylbenzene | 91 | | 90 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 94 | | 95 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 91 | | 91 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 90 | | 88 | | 70-130 | 2 | | 20 |
| p/m-Xylene | 85 | | 90 | | 70-130 | 6 | | 20 |
| o-Xylene | 85 | | 85 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,2-Dichloroethane-d4 | 102 | | 105 | | 70-130 |
| Toluene-d8 | 101 | | 103 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 95 | | 70-130 |
| Dibromofluoromethane | 94 | | 100 | | 70-130 |

SEMIVOLATILES

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:10
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 06/24/25 04:22
 Analyst: DB

Extraction Method: EPA 3510C
 Extraction Date: 06/20/25 08:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1780 | B | ng/l | 144 | 32.6 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 49 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:10
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 06/26/25 15:07
 Analyst: CAP

Extraction Method: EPA 1633
 Extraction Date: 06/22/25 10:10

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 11.8 | | ng/l | 5.95 | 0.491 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 14.4 | | ng/l | 2.97 | 0.335 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.54 | | ng/l | 1.49 | 0.372 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 5.95 | 0.848 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 13.1 | | ng/l | 1.49 | 0.230 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 1.41 | JF | ng/l | 1.49 | 0.193 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 14.4 | | ng/l | 1.49 | 0.223 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 18.4 | | ng/l | 1.49 | 0.126 | 1 |
| Perfluorooctanoic Acid (PFOA) | 22.4 | | ng/l | 1.49 | 0.245 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 5.95 | 4.48 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.558 | J | ng/l | 1.49 | 0.186 | 1 |
| Perfluorononanoic Acid (PFNA) | 4.88 | | ng/l | 1.49 | 0.245 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 31.2 | | ng/l | 1.49 | 0.245 | 1 |
| Perfluorodecanoic Acid (PFDA) | 0.528 | J | ng/l | 1.49 | 0.193 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.49 | 0.186 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.49 | 0.164 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.49 | 0.126 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.49 | 0.089 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.49 | 0.446 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.49 | 0.201 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.49 | 0.171 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.49 | 0.149 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 5.95 | 1.49 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 5.95 | 0.349 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.49 | 0.223 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 5.95 | 0.409 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 5.95 | 0.416 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01
 Client ID: BEFORE FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:10
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.49 | 0.208 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.49 | 0.327 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 14.9 | 1.21 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 14.9 | 1.03 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.97 | 0.230 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.97 | 0.335 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 2.97 | 0.305 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.97 | 0.506 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.44 | 0.498 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 37.2 | 3.96 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 37.2 | 2.96 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01

Date Collected: 06/13/25 11:10

Client ID: BEFORE FILTER

Date Received: 06/13/25

Sample Location: RENSSELAER 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) | 88 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 79 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 64 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 114 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 76 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 61 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 51 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 53 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 69 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 50 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 40 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 41 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 38 | Q | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 27 | Q | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 35 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 62 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 28 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 27 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 16 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 76 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 52 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 45 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 45 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 43 | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01 RE

Date Collected: 06/13/25 11:10

Client ID: BEFORE FILTER

Date Received: 06/13/25

Sample Location: RENSSELAER NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 06/25/25 07:00

Analytical Date: 06/27/25 21:30

Analyst: DB

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1260 | | ng/l | 144 | 32.6 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 41 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01 RE

Date Collected: 06/13/25 11:10

Client ID: BEFORE FILTER

Date Received: 06/13/25

Sample Location: RENSSELAER NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 06/29/25 10:28

Analytical Date: 06/29/25 20:06

Analyst: ANH

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 64.0 | 12.2 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 16.0 | 4.80 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-01 RE

Date Collected: 06/13/25 11:10

Client ID: BEFORE FILTER

Date Received: 06/13/25

Sample Location: RENSSELAER 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) | 93 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 99 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 108 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 113 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 96 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 99 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 100 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 91 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 109 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 103 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 104 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 93 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 86 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 79 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 84 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 70 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 90 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 79 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 68 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 95 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 61 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 59 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 80 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 86 | | 10-130 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

SAMPLE RESULTS

Lab ID: L2537493-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:30
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 06/24/25 04:44
 Analyst: DB

Extraction Method: EPA 3510C
 Extraction Date: 06/20/25 08:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1680 | B | ng/l | 144 | 32.6 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 52 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:30
 Date Received: 06/13/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 06/26/25 15:16
 Analyst: CAP

Extraction Method: EPA 1633
 Extraction Date: 06/22/25 10:10

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 13.4 | | ng/l | 5.93 | 0.490 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 22.9 | | ng/l | 2.97 | 0.334 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.96 | | ng/l | 1.48 | 0.371 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 5.93 | 0.846 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 13.4 | | ng/l | 1.48 | 0.230 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 0.697 | J | ng/l | 1.48 | 0.193 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 9.79 | | ng/l | 1.48 | 0.222 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 7.71 | | ng/l | 1.48 | 0.126 | 1 |
| Perfluorooctanoic Acid (PFOA) | 10.6 | | ng/l | 1.48 | 0.245 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 5.93 | 4.47 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.282 | J | ng/l | 1.48 | 0.185 | 1 |
| Perfluorononanoic Acid (PFNA) | 2.41 | | ng/l | 1.48 | 0.245 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 13.4 | | ng/l | 1.48 | 0.245 | 1 |
| Perfluorodecanoic Acid (PFDA) | 0.200 | J | ng/l | 1.48 | 0.193 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 5.93 | 1.14 | 1 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.48 | 0.185 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.48 | 0.445 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.48 | 0.163 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.48 | 0.126 | 1 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.48 | 0.089 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.48 | 0.445 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.48 | 0.200 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.48 | 0.171 | 1 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.48 | 0.148 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 5.93 | 1.48 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 5.93 | 0.349 | 1 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.48 | 0.222 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:30
 Date Received: 06/13/25
 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 | 5.93 | 0.408 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 5.93 | 0.415 | 1 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.48 | 0.208 | 1 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.48 | 0.326 | 1 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 14.8 | 1.21 | 1 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 14.8 | 1.02 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.97 | 0.230 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.97 | 0.334 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 2.97 | 0.304 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.97 | 0.504 | 1 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 7.42 | 0.497 | 1 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 37.1 | 3.95 | 1 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 37.1 | 2.95 | 1 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-03
 Client ID: AFTER FILTER
 Sample Location: RENSSELAER NY

Date Collected: 06/13/25 11:30
 Date Received: 06/13/25
 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) | 101 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 101 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 104 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 180 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 104 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 99 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 113 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 101 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 155 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 94 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 93 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 90 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 108 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 92 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 88 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 71 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 85 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 63 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 44 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 94 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 51 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 49 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 56 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 56 | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**SAMPLE RESULTS**

Lab ID: L2537493-03 RE

Date Collected: 06/13/25 11:30

Client ID: AFTER FILTER

Date Received: 06/13/25

Sample Location: RENSSELAER NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 06/25/25 07:00

Analytical Date: 06/27/25 21:51

Analyst: DB

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1680 | | ng/l | 142 | 32.0 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 37 | | 15-110 | |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E-SIM
Analytical Date: 06/23/25 20:28
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 06/20/25 08:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2081358-1 | | | | | |
| 1,4-Dioxane | 670. | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 57 | | 15-110 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 06/26/25 13:20
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/22/25 10:10

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2081925-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 6.40 | 0.528 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.60 | 0.400 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.60 | 0.248 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.60 | 0.208 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.60 | 0.240 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.60 | 0.264 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 |



Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 06/26/25 13:20
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/22/25 10:10

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2081925-1 | | | | | |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 6.40 | 0.440 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 3.20 | 0.328 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 06/26/25 13:20
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/22/25 10:10

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01,03 Batch: WG2081925-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|-----------|-----------|---------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 102 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 107 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 107 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 98 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 101 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 102 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 100 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 99 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 94 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 107 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 93 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 91 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 85 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 69 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 88 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 77 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 80 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 80 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 59 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 111 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 57 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 58 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 76 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 80 | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E-SIM
 Analytical Date: 06/27/25 12:55
 Analyst: DB

Extraction Method: EPA 3510C
 Extraction Date: 06/25/25 07:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2083122-1 | | | | | |
| 1,4-Dioxane | ND | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 44 | | 15-110 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 06/30/25 13:21
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/29/25 10:28

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2084854-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 6.40 | 0.528 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.60 | 0.400 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 6.40 | 0.912 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.60 | 0.248 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 1.60 | 0.208 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.60 | 0.240 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.60 | 0.264 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 6.40 | 4.82 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.60 | 0.200 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.60 | 0.264 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.60 | 0.208 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 6.40 | 1.22 |
| Perfluorononanesulfonic Acid (PFNS) | ND | | ng/l | 1.60 | 0.200 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.60 | 0.176 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.60 | 0.136 |
| Perfluorooctanesulfonamide (PFOSA) | ND | | ng/l | 1.60 | 0.096 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.60 | 0.480 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.60 | 0.216 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.60 | 0.184 |
| Perfluorotetradecanoic Acid (PFTeDA) | ND | | ng/l | 1.60 | 0.160 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | ND | | ng/l | 6.40 | 1.60 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 6.40 | 0.376 |
| Perfluorododecanesulfonic Acid (PFDoS) | ND | | ng/l | 1.60 | 0.240 |



Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 06/30/25 13:21
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/29/25 10:28

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2084854-1 | | | | | |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 6.40 | 0.440 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 6.40 | 0.448 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | ND | | ng/l | 1.60 | 0.224 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | ND | | ng/l | 1.60 | 0.352 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | ND | | ng/l | 16.0 | 1.30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | ND | | ng/l | 16.0 | 1.10 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 3.20 | 0.248 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 3.20 | 0.360 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 3.20 | 0.328 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 3.20 | 0.544 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | ND | | ng/l | 8.00 | 0.536 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | ND | | ng/l | 40.0 | 4.26 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | ND | | ng/l | 40.0 | 3.18 |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 06/30/25 13:21
Analyst: CAP

Extraction Method: EPA 1633
Extraction Date: 06/29/25 10:28

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2084854-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|-----------|-----------|---------------------|
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 89 | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 88 | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 88 | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 86 | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 90 | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 89 | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 92 | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 89 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 86 | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 87 | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 87 | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 84 | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 98 | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 89 | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 83 | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 72 | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 112 | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 77 | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 55 | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 80 | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 62 | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 64 | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 92 | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 96 | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2081358-2 WG2081358-3 | | | | | | | | |
| 1,4-Dioxane | 115 | | 109 | | 40-140 | 5 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------|------------------|------|-------------------|------|------------------------|
| 1,4-Dioxane-d8 | 58 | | 53 | | 15-110 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| 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): 01,03 Batch: WG2081925-2 LOW LEVEL | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 101 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 101 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 103 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 96 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 112 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 102 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 98 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 107 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 108 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 105 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 108 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 98 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 104 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 114 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 114 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 92 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 109 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 100 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 74 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 97 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 96 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| 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): 01,03 Batch: WG2081925-2 LOW LEVEL | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 106 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 78 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 104 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 112 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 100 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 76 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 106 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 95 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 100 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 104 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 99 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 95 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 93 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 92 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 102 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 98 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 92 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 99 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 85 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

| Parameter | Low Level LCS | | Low Level LCSD | | %Recovery Limits | | RPD | |
|---|------------------|------|-------------------|------|---------------------|------|-----|--|
| | %Recovery | Qual | %Recovery | Qual | RPD | Qual | RPD | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2081925-2 LOW LEVEL | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 98 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 113 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 104 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 101 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 105 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 109 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 101 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 96 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 94 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 106 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 100 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 95 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 90 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 75 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 95 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 88 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 91 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 89 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 80 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 92 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 64 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 64 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 84 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 92 | | | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2081925-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 94 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 98 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 102 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 99 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 97 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 99 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 112 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 97 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 105 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 108 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 103 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 115 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 100 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 106 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 102 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 95 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 107 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 103 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 81 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 94 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 94 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2081925-3 | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 104 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 73 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 106 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 100 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 115 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 83 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 101 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 100 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 100 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 94 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 103 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 98 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 83 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 96 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 98 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 90 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 95 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 94 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 95 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS | | LCSD | | %Recovery | | RPD | RPD | |
|---|-----------|------|-----------|------|-----------|------|-----|--------|--|
| | %Recovery | Qual | %Recovery | Qual | Limits | Qual | | Limits | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01,03 Batch: WG2081925-3 | | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 106 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 108 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 107 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 100 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 109 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 100 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 107 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 96 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 102 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 92 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 105 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 98 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 98 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 74 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 88 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 91 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 91 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 84 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 74 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 100 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 68 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 77 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 87 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 95 | | | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| 1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2083122-2 WG2083122-3 | | | | | | | | |
| 1,4-Dioxane | 126 | | 125 | | 40-140 | 1 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,4-Dioxane-d8 | 43 | | 44 | | 15-110 |



Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | Low Level LCS | Qual | Low Level LCSD | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| | %Recovery | | %Recovery | | | | | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2084854-2 LOW LEVEL | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 108 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 109 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 113 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 104 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 108 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 102 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 119 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 101 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 112 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 116 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 98 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 111 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 113 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 108 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 121 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 99 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 127 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 108 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 81 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 114 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 114 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| 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): 01 Batch: WG2084854-2 LOW LEVEL | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 111 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 81 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 119 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 99 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 132 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 91 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 101 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 90 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 110 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 110 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 113 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 104 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 88 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 105 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 99 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 101 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 97 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 95 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 92 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | Low Level LCS | | Low Level LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2084854-2 LOW LEVEL | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 89 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 95 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 94 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 88 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 97 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 86 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 94 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 86 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 92 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 92 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 98 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 84 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 91 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 82 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 80 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 78 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 95 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 77 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 61 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 93 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 60 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 57 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 72 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 78 | | | | 10-130 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2084854-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 95 | | - | | 70-140 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 101 | | - | | 65-135 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 104 | | - | | 60-145 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 93 | | - | | 70-145 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 91 | | - | | 70-145 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 100 | | - | | 65-140 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 100 | | - | | 70-150 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 96 | | - | | 65-145 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 101 | | - | | 70-150 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 103 | | - | | 65-155 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 100 | | - | | 70-150 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 104 | | - | | 70-150 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 94 | | - | | 55-150 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 98 | | - | | 70-140 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 110 | | - | | 60-150 | - | | 30 |
| Perfluorononanesulfonic Acid (PFNS) | 88 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 110 | | - | | 50-140 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 103 | | - | | 70-145 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 78 | | - | | 60-145 | - | | 30 |
| Perfluorooctanesulfonamide (PFOSA) | 103 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 90 | | - | | 70-145 | - | | 30 |

Lab Control Sample Analysis
Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2084854-3 | | | | | | | | |
| Perfluorododecanoic Acid (PFDoA) | 103 | | - | | 70-140 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 72 | | - | | 65-140 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTeDA) | 99 | | - | | 60-140 | - | | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 96 | | - | | 70-140 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 111 | | - | | 65-145 | - | | 30 |
| Perfluorododecanesulfonic Acid (PFDoS) | 75 | | - | | 50-145 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 102 | | - | | 70-155 | - | | 30 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 83 | | - | | 55-160 | - | | 30 |
| N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) | 84 | | - | | 60-150 | - | | 30 |
| N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) | 93 | | - | | 65-145 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE) | 100 | | - | | 70-145 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) | 96 | | - | | 70-135 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 85 | | - | | 55-140 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 97 | | - | | 60-150 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | 97 | | - | | 70-140 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 94 | | - | | 50-150 | - | | 30 |
| 3-Perfluoropropyl Propanoic Acid (3:3FTCA) | 85 | | - | | 65-130 | - | | 30 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA) | 87 | | - | | 70-135 | - | | 30 |
| 3-Perfluoroheptyl Propanoic Acid (7:3FTCA) | 83 | | - | | 50-145 | - | | 30 |

Lab Control Sample Analysis Batch Quality Control

Project Name: 2025 GWTS SAMPLING

Lab Number: L2537493

Project Number: 075704.001.0202505

Report Date: 07/08/25

| Parameter | LCS | | LCSD | | %Recovery | | RPD | RPD | |
|--|-----------|------|-----------|------|-----------|------|-----|--------|--|
| | %Recovery | Qual | %Recovery | Qual | Limits | Qual | | Limits | |
| Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2084854-3 | | | | | | | | | |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|---|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA) | 98 | | | | 5-130 |
| Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA) | 94 | | | | 40-130 |
| Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS) | 101 | | | | 40-135 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS) | 101 | | | | 40-200 |
| Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA) | 95 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA) | 90 | | | | 40-130 |
| Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS) | 98 | | | | 40-130 |
| Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA) | 90 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS) | 96 | | | | 40-200 |
| Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA) | 95 | | | | 40-130 |
| Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS) | 100 | | | | 40-130 |
| Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA) | 86 | | | | 40-130 |
| 1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS) | 99 | | | | 40-300 |
| N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA) | 83 | | | | 40-170 |
| Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA) | 80 | | | | 30-130 |
| Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA) | 74 | | | | 40-130 |
| N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA) | 103 | | | | 25-135 |
| Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA) | 75 | | | | 10-130 |
| Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA) | 72 | | | | 10-130 |
| Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) | 91 | | | | 40-130 |
| N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA) | 69 | | | | 10-130 |
| N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA) | 68 | | | | 10-130 |
| N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE) | 89 | | | | 10-130 |
| N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE) | 99 | | | | 10-130 |

Project Name: 2025 GWTS SAMPLING**Lab Number:** L2537493**Project Number:** 075704.001.0202505**Report Date:** 07/08/25**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(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2537493-01A | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-01B | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-01C | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-01D | Amber 250ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2537493-01E | Amber 250ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2537493-01F | Plastic 500ml unpreserved | B | NA | | 2.8 | Y | Absent | | A2-NY-1633(28) |
| L2537493-01G | Plastic 500ml unpreserved | B | NA | | 2.8 | Y | Absent | | A2-NY-1633(28) |
| L2537493-02A | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-02B | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-02C | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-03A | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-03B | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-03C | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-03D | Amber 250ml unpreserved | B | NA | | 2.8 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2537493-03E | Amber 250ml unpreserved | B | NA | | 2.8 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2537493-03F | Plastic 500ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | A2-NY-1633(28) |
| L2537493-03G | Plastic 500ml unpreserved | A | 7 | 7 | 3.4 | Y | Absent | | A2-NY-1633(28) |
| L2537493-04A | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2537493-04C | Vial HCl preserved | A | NA | | 3.4 | Y | Absent | | NYTCL-8260-R2(14) |

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Serial_No:07082516:01
Lab Number: L2537493
Report Date: 07/08/25

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-Chloroeicosafuoro-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: 2025 GWTS SAMPLING

Project Number: 075704.001.0202505

Serial_No:07082516:01
Lab Number: L2537493

Report Date: 07/08/25

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: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

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: 2025 GWTS SAMPLING
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.)

Project Name: 2025 GWTS SAMPLING
Project Number: 075704.001.0202505

Lab Number: L2537493
Report Date: 07/08/25

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

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1
of 2

Date Rec'd in Lab 6/14/25

ALPHA Job # 2527493

Project Information
 Project Name: 2025 GWTS SAMPLING
 Project Location: Rensselaer NY
 Project # 675104-001-0202505
 (Use Project name as Project #)
 Project Manager: Samantha Miller
 ALPHAQuote #: 30091
 Turn-Around Time
 Standard Push (only if pre approved)
 Due Date: # of Days:

Deliverables
 ASP-A ASP-B
 EQuIS (1 File) EQuIS (4 File)
 Other

Billing Information
 Same as Client Info
 PO # 075104-001-01

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
 Client specific VOCs = benzene, chlorobenzene, ethylbenzene, toluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, xylene (M,P,O)
Please specify Metals or TAL.

ANALYSIS

| | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| VOCs - 2260 | | | | | | | | | | | | | | | | | | | | |
| CLIENT SPECIFIC | | | | | | | | | | | | | | | | | | | | |
| 1,4 DICHORANE | | | | | | | | | | | | | | | | | | | | |
| 8270 SIM | | | | | | | | | | | | | | | | | | | | |

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | ANALYSIS | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------------|-------|---------------|--------------------|----------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | Date | Time | | | | | | | | | | | | | | | | | | |
| 31403-01 | BEFORE FILTER | 6.13.25 | 11:10 | W | CRH | X | X | | | | | | | | | | | | | | |
| -02 | BETWEEN FILTER | ↓ | 11:20 | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | |
| -03 | AFTER FILTER | ↓ | 11:30 | ↓ | ↓ | ↓ | X | | | | | | | | | | | | | | |
| -04 | TRIP BLANK | — | — | W | — | ↓ | | | | | | | | | | | | | | | |

Sample Specific Comments

5
3
5
2

- Preservative Code:**
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 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 | | | | | | | | | | | | | | | | | | |
| Preservative | B | A | | | | | | | | | | | | | | | | | | |

| | | | |
|--------------------|---------------|--------------------|---------------|
| Relinquished By: | Date/Time | Received By: | Date/Time |
| <i>[Signature]</i> | 6/12/25 15:33 | <i>[Signature]</i> | 6/13/25 15:33 |
| <i>[Signature]</i> | 6/13/25 15:33 | <i>[Signature]</i> | 6/13/25 15:45 |
| <i>[Signature]</i> | 6/14/25 22:00 | <i>[Signature]</i> | 6/13/25 22:00 |

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.)



Sample Delivery Group Summary

Pace Job Number : L2537493

Received : 13-JUN-2025

Reviewer : Harmony Evans

Account Name : CHA Companies

Project Number : 075704.001.0202505

Project Name : 2025 GWTS SAMPLING

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

| Cooler | Seal/Seal# | Preservation | Temperature(°C) | Additional Information |
|--------|------------|--------------|-----------------|------------------------|
| A | Absent/ | Ice | 3.4 | |
| B | Absent/ | Ice | 2.8 | |

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NO |
|--|-----------|



Appendix B

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 4
1130 North Westcott Road, Schenectady, NY 12306-2014
P: (518) 357-2045 | F: (518) 357-2593
www.dec.ny.gov

February 4, 2025

Curia (formerly AMRI)
Attention: Daniel Ormsbee
33 Riverside Avenue
Rensselaer, NY 12144
(Sent by email only Daniel.Ormsbee@curiaglobal.com)

RE: Comments on Groundwater Monitoring and
Groundwater Treatment System
Sterling Drug Site 1 (Curia), NYSDEC Site No. 442009

Dear Daniel Ormsbee:

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the revised "Biannual Groundwater Sampling and Analysis Report October 2024" (Oct2024 GW Report) and previous groundwater monitoring reports, as well as the "Groundwater Treatment System Biannual Monitoring Results" (GWTS Report) report for Second Half 2023 and for First Half 2024.

The status of the poly- and perfluoroalkyl substances (PFAS) and the 1,4-dioxane sampling requirements are unresolved issues for both the groundwater monitoring program and the groundwater treatment system sampling program. In addition, the apparent storm sewer concrete vault near groundwater monitoring well MW-12 has been a point of discussion for the groundwater monitoring program during several recent site visits and/or conference calls.

Groundwater PFAS Discussion

Attachment #1 contains graphical representations of PFAS data for the Sterling Drug Site 1 location groundwater monitoring wells/points and the adjacent BASF site (NYSDEC Site #442027) groundwater temporary piezometers (TPZ). The PFAS data indicate similar component 'patterns' for groundwater wells/piezometers near Riverside Avenue on both sides of the property boundary between the two adjacent sites. The PFAS contamination on the Sterling Drug Site 1 site does not appear to be solely from the BASF site, since PFOS-specific concentrations start high at BASF, get lower at the property line, and go back up within the Sterling Drug Site 1, then go back down northward from the Sterling Drug Site 1 (see Attachment #1-1 through Attachment #1-6).

There are indications of similar PFAS composition 'patterns' in other areas of Sterling Drug Site 1, including MW-3 and TFE locations which show more prominent PFOA and PFNA concentrations (see Attachment #1-7) and MW-11A and MW-17 locations which show comparable combinations of PFOS, PFHxS, PFOA and PFHxA (see Attachment #1-8).

Groundwater and Groundwater Treatment System 1,4-Dioxane Discussion

Attachment #2 contains graphical representations of 1,4-dioxane data for Sterling Drug Site 1. The 1,4-dioxane data from the groundwater monitoring wells indicates concentrations

exceeding the NYSDEC groundwater guidance value of 0.35 ug/L across the site, especially at MW-3 (4.56 ug/L) at the northern site boundary and MW-12 (8.24 ug/L) at the southern site boundary. Attachment #2-1 through Attachment #2-3 illustrate the groundwater concentrations for the groundwater monitoring wells, while Attachment #2-4 through Attachment #2-6 illustrate groundwater elevation contours and groundwater flow directions. In general, groundwater near MW-12 flows southerly, easterly and westerly toward MW-12, and potentially onto the adjacent BASF site, while groundwater near MW-3 flows generally northwesterly (with other possible directions undefined due to lack of groundwater monitoring points).

The tables on pages Attachment #2-7 through Attachment #2-9 indicate that 1,4-dioxane is migrating into the passive groundwater collection and treatment system (GWTS) and is being discharged to groundwater at concentrations exceeding the NYSDEC guidance value of 0.35 ug/L during some months.

Subsurface Vault Discussion

The presence of a concrete vault near MW-12 has been noted during recent site visits and conversations as a potential infrastructure influence on groundwater flow in the MW-12 area. The concrete vault has appeared on some groundwater and other site maps, generally as an unidentified structure (box). Consistent with historical site maps that include underground piping lines, recent discussions have indicated that the concrete vault is part of the process water and/or storm sewer system for the southern boundary area, and the main north-south pipeline. The groundwater flow direction near MW-6A and MW-12 appears to have some preferential flow related to the concrete vault and its associated piping, resulting in a semi-circle or southern groundwater flow.

The details of depths of the vault, and underground pipelines and backfill materials around the vault and pipelines would provide information on the potential effects on groundwater flow in that area. Attachment #3 contains figures from historical documents regarding the groundwater at Sterling Drug Site 1. Attachment #3-1 through Attachment #3-3 include a box/vault adjacent to groundwater monitoring well MW-12. In addition, Attachment #3-4 and Attachment #3-5 are NYSDEC photographs of the MW-12 area and the concrete vault.

Conclusions

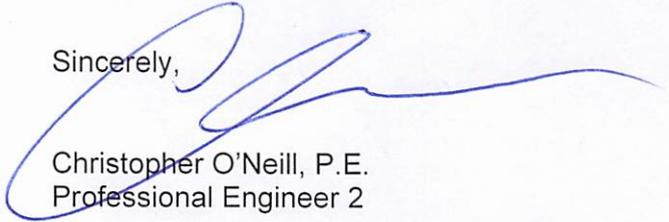
Based on the above discussions, NYSDEC and NYSDOH request the following tasks regarding the groundwater monitoring program and the groundwater treatment system monitoring program.

1. Beginning in October 2025, please resume sampling and analyses (and subsequent reporting) for PFAS (using USEPA Method 1633) and for 1,4-dioxane (using USEPA Method 8270 SIM) in the Fall/October groundwater sampling events for groundwater monitoring wells MW-3, MW-5A, MW-6A, MW-7A, MW-8, MW-9, MW-11A, MW-12, MW-14A, MW-17, MW-18, OS-1A, OS-3, OS-4A and OS-5A.
2. Beginning in March 2025, please resume sampling and analyses (and subsequent reporting) for PFAS (using USEPA Method 1633) and 1,4-dioxane (using USEPA Method 8270 SIM) in the monthly groundwater treatment system sampling events for the Influent and Effluent treatment system sampling ports.
3. Please provide details and discussion regarding the potential for underground pipelines, considering both historical and current pipelines, and concrete vault to influence the

groundwater flow pathway near MW-6A and MW-12, as part of the groundwater monitoring report for the April 2025 groundwater sampling event.

Please contact me at 518-357-2394 if there are any questions regarding implementation of the above requests.

Sincerely,



Christopher O'Neill, P.E.
Professional Engineer 2

Attachments

EC: E. Leighton, Curia
S. Miller, CHA
J. Deming, NYSDOH
A. Keegan, NYSDOH
M. Murphy, NYSDEC

Attachment #1

PFAS Data Graphs/Figures

Legend: **DRAFT**

ID number = Sterling Drug Site 1 MW

ID number = BASF TPZ

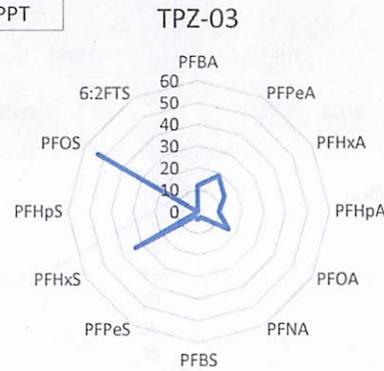


PFAS Results from GW
Sampling on 1/24/2024 in
ng/L (ppt)

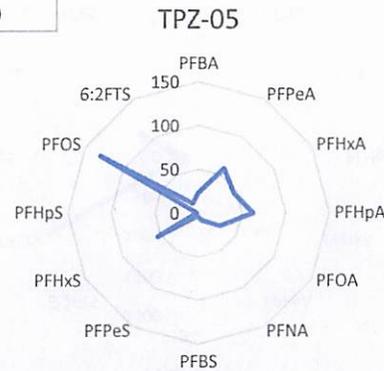
| Row Labels | TPZ-03 |
|------------|--------|
| PFBA | 12 |
| PFPeA | 19 |
| PFHxA | 14 |
| PFHpA | 9.7 |
| PFOA | 16 |
| PFNA | 2.9 |
| PFBS | 3.5 |
| PFPeS | 2.3 |
| PFHxS | 33 |
| PFHpS | 0 |
| PFOS | 53 |
| 6:2FTS | 0 |

DRAFT

PFOS= 53 PPT



PFOS= 130 PPT



PFAS Results from GW
Sampling on 1/24/2024 in
ng/L (ppt)

| Row Labels | TPZ-05 |
|------------|--------|
| PFBA | 23 |
| PFPeA | 59 |
| PFHxA | 47 |
| PFHpA | 63 |
| PFOA | 29 |
| PFNA | 9.4 |
| PFBS | 4 |
| PFPeS | 4.7 |
| PFHxS | 54 |
| PFHpS | 1.4 |
| PFOS | 130 |
| 6:2FTS | 13 |

DRAFT

DRAFT

PFAS Results from GW
 Sampling on 1/24/2024 in
 ng/L (ppt)

PFAS Results from GW
 Sampling on 1/24/2024 in
 ng/L (ppt)

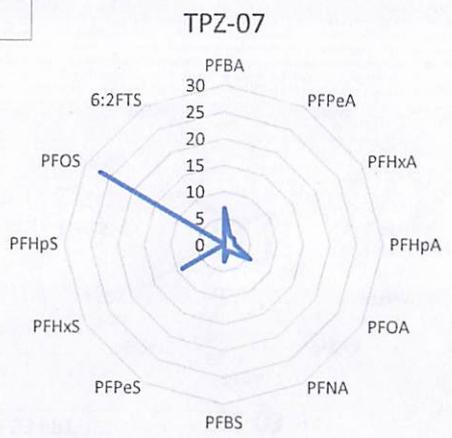
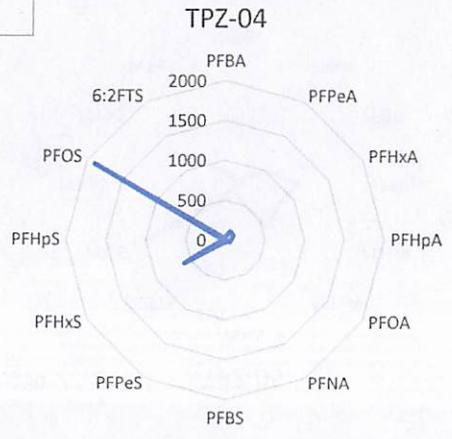
PFOS= 1900 PPT

PFOS= 27 PPT

| Row Labels | TPZ-04 |
|------------|--------|
| PFBA | 42 |
| PFPeA | 120 |
| PFHxA | 110 |
| PFHpA | 68 |
| PFOA | 58 |
| PFNA | 11 |
| PFBS | 33 |
| PFPeS | 44 |
| PFHxS | 600 |
| PFHpS | 33 |
| PFOS | 1900 |
| 6:2FTS | 20 |

DRAFT

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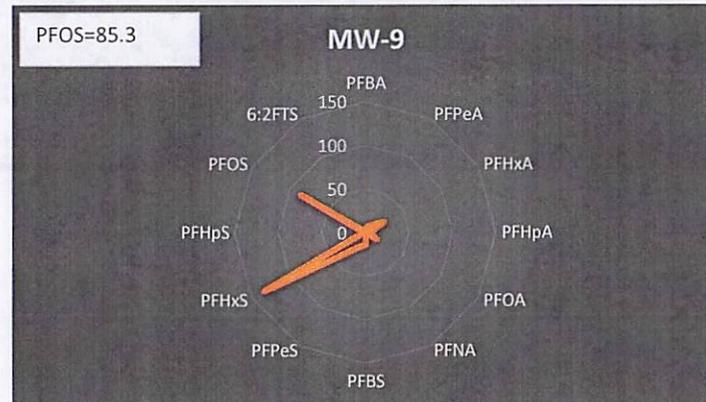
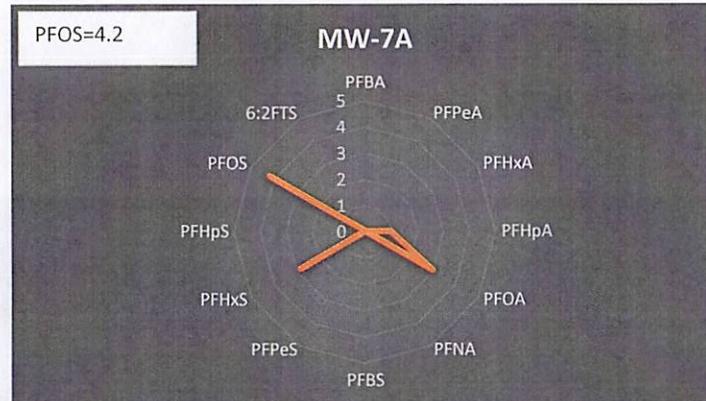
DRAFT

| Row Labels | TPZ-07 |
|------------|--------|
| PFBA | 6.8 |
| PFPeA | 2 |
| PFHxA | 2.1 |
| PFHpA | 2 |
| PFOA | 5.6 |
| PFNA | 1.4 |
| PFBS | 3.2 |
| PFPeS | 0 |
| PFHxS | 9.1 |
| PFHpS | 0 |
| PFOS | 27 |
| 6:2FTS | 0 |

PFAS Results from GW
 Sampling on 10/04/2023 in
 ng/L (ppt)

| Row Labels | MW-7A |
|------------|-------|
| PFBA | |
| PFPeA | |
| PFHxA | |
| PFHpA | 0.96 |
| PFOA | 2.96 |
| PFNA | |
| PFBS | |
| PFPeS | |
| PFHxS | 2.84 |
| PFHpS | |
| PFOS | 4.2 |
| 6:2FTS | |

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PFAS Results from GW
 Sampling on 10/04/2023 in
 ng/L (ppt)

| Row Labels | MW-9 |
|------------|-------|
| PFBA | 5.29 |
| PFPeA | 8.92 |
| PFHxA | 23.2 |
| PFHpA | 4.72 |
| PFOA | 14.3 |
| PFNA | 0.507 |
| PFBS | 13.7 |
| PFPeS | 20.1 |
| PFHxS | 134 |
| PFHpS | 2.11 |
| PFOS | 85.3 |
| 6:2FTS | |

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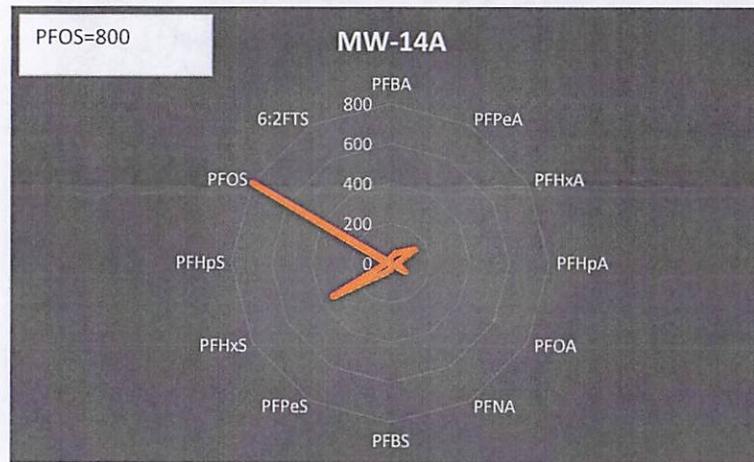
MW-14A

DRAFT

| Row Labels | MW-14A |
|------------|--------|
| PFBA | 28.7 |
| PFPeA | 60.2 |
| PFHxA | 139 |
| PFHpA | 31.9 |
| PFOA | 82.4 |
| PFNA | 5.08 |
| PFBS | 29.3 |
| PFPeS | 53.2 |
| PFHxS | 334 |
| PFHpS | 21.4 |
| PFOS | 800 |
| 6:2FTS | |

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DRAFT

DRAFT

PFAS Results from GW
Sampling on 10/05/2023 in
ng/L (ppt)

DRAFT

DBVEL

DBVEL



DRAFT

DRAFT

Attachment #1 - 6

DRAFT

DBVEL

DBVEL

DRAFT

DRAFT



DRAFT

DRAFT

DRAFT

DRAFT



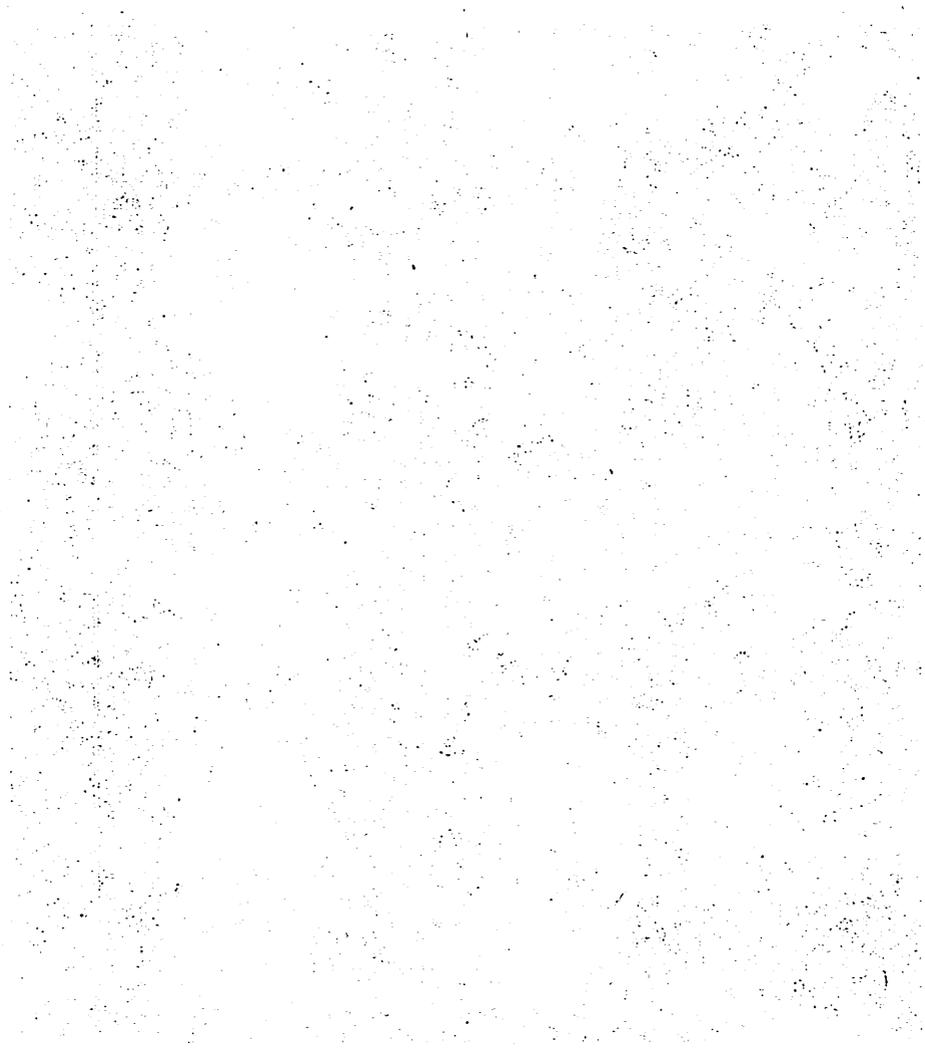
DRAFT

Attachment #1 - 8

DRAFT

Attachment #2

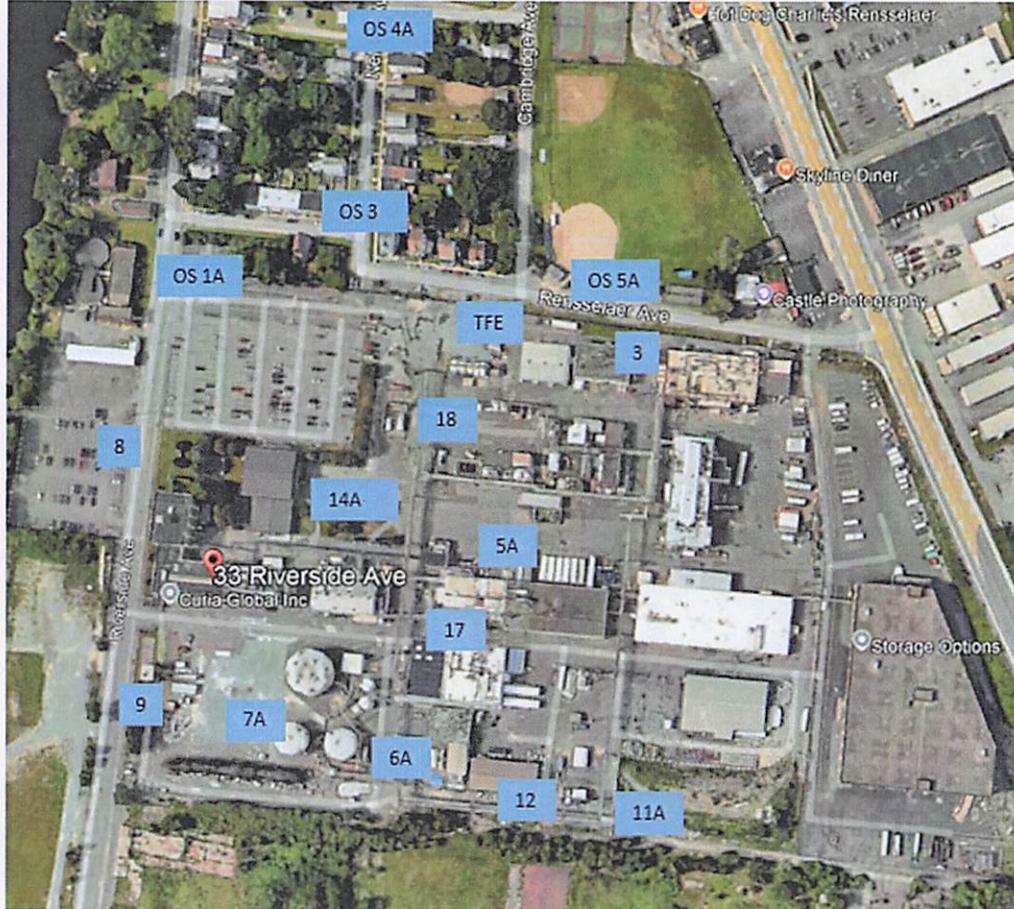
1,4-Dioxane Data Graphs/Figures



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Legend:

ID number = Sterling Drug Site 1 MW



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DRAFT

DRAFT

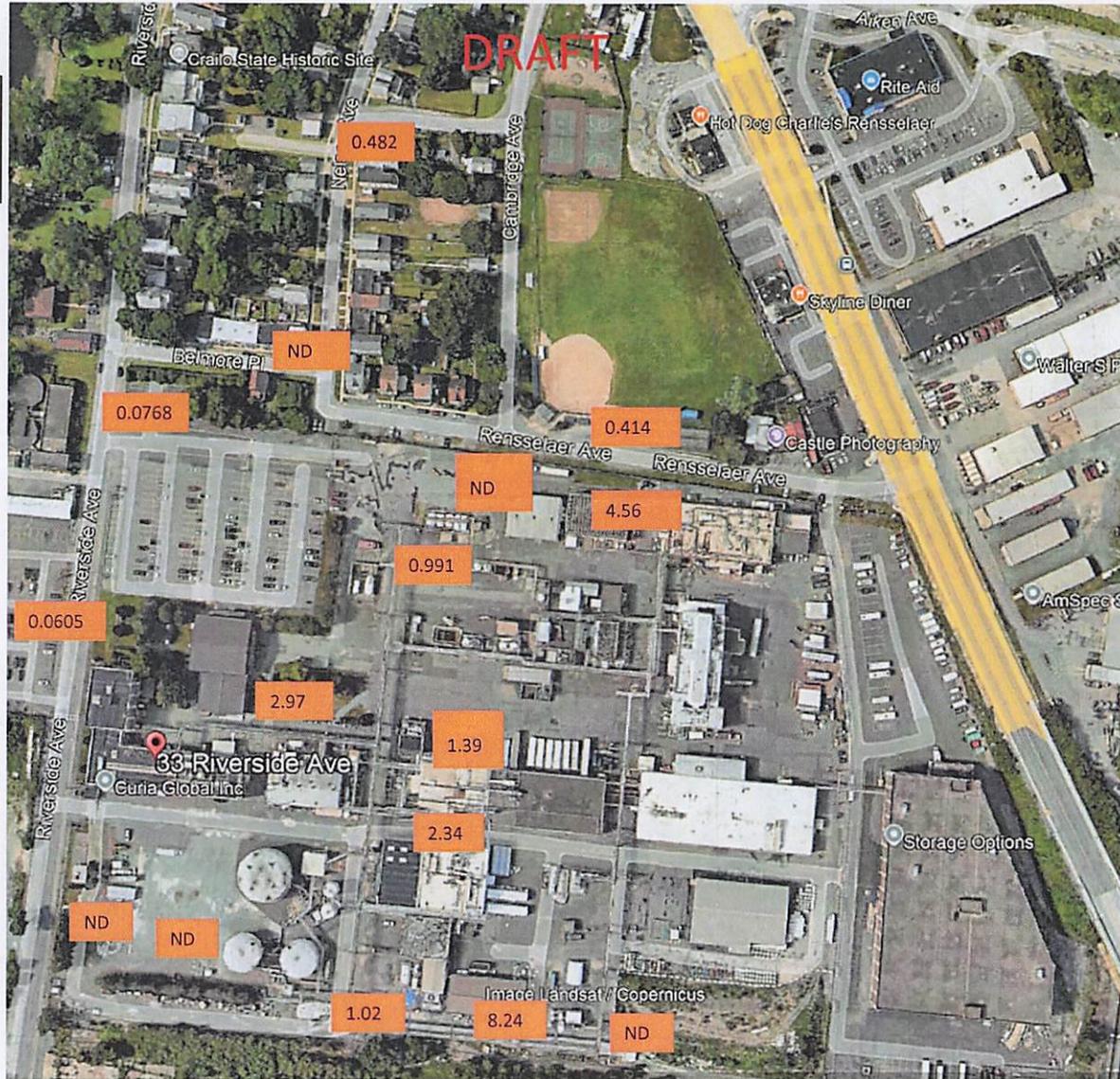
Attachment #2 - 1

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DRAFT

DRAFT

Legend:
Value = 1,4-Dioxane Concentration



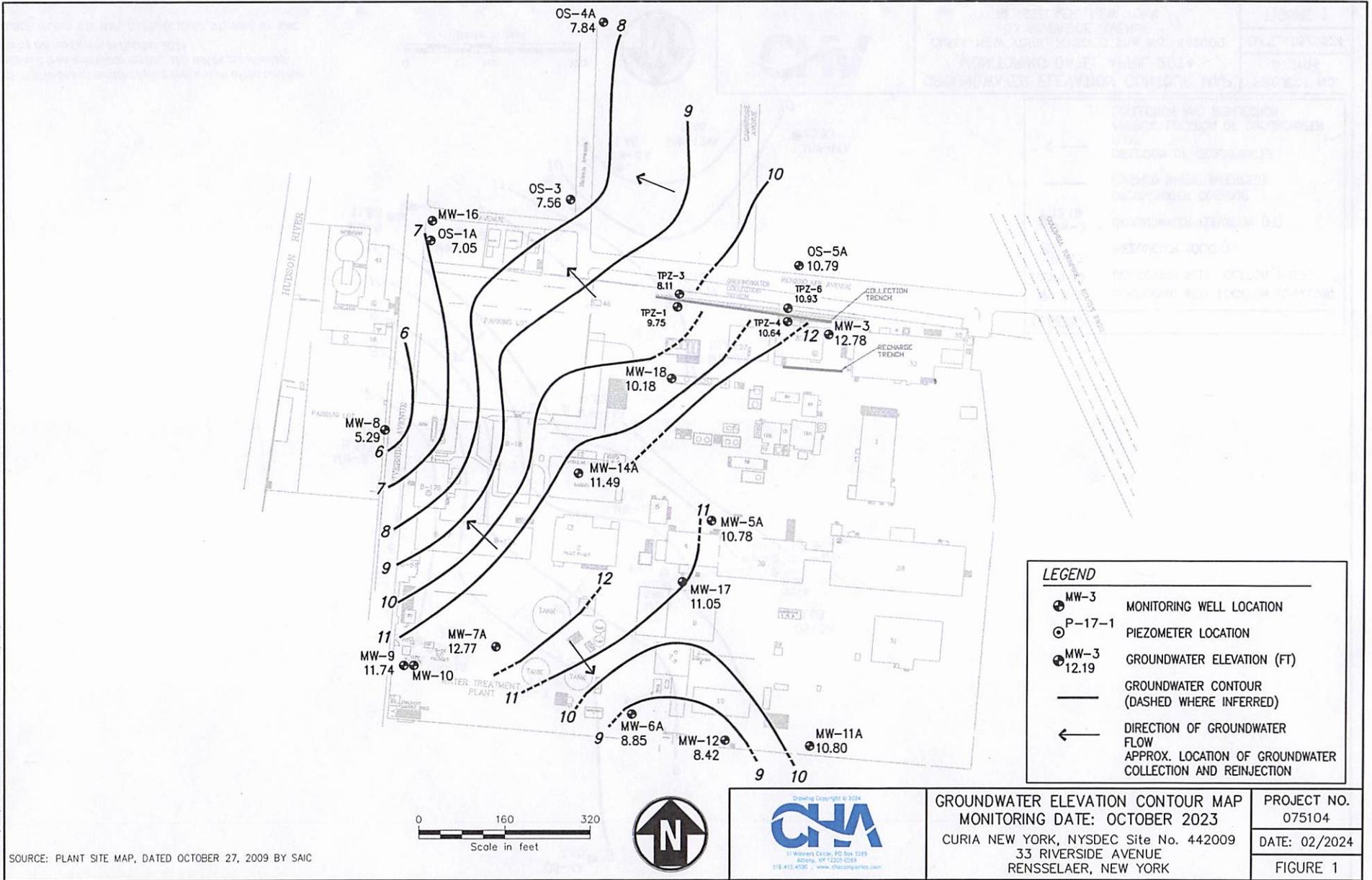
Results from
GW Sampling on
10/04/2023 in ug/L
(ppb)

DRAFT

Attachment #2 - 3

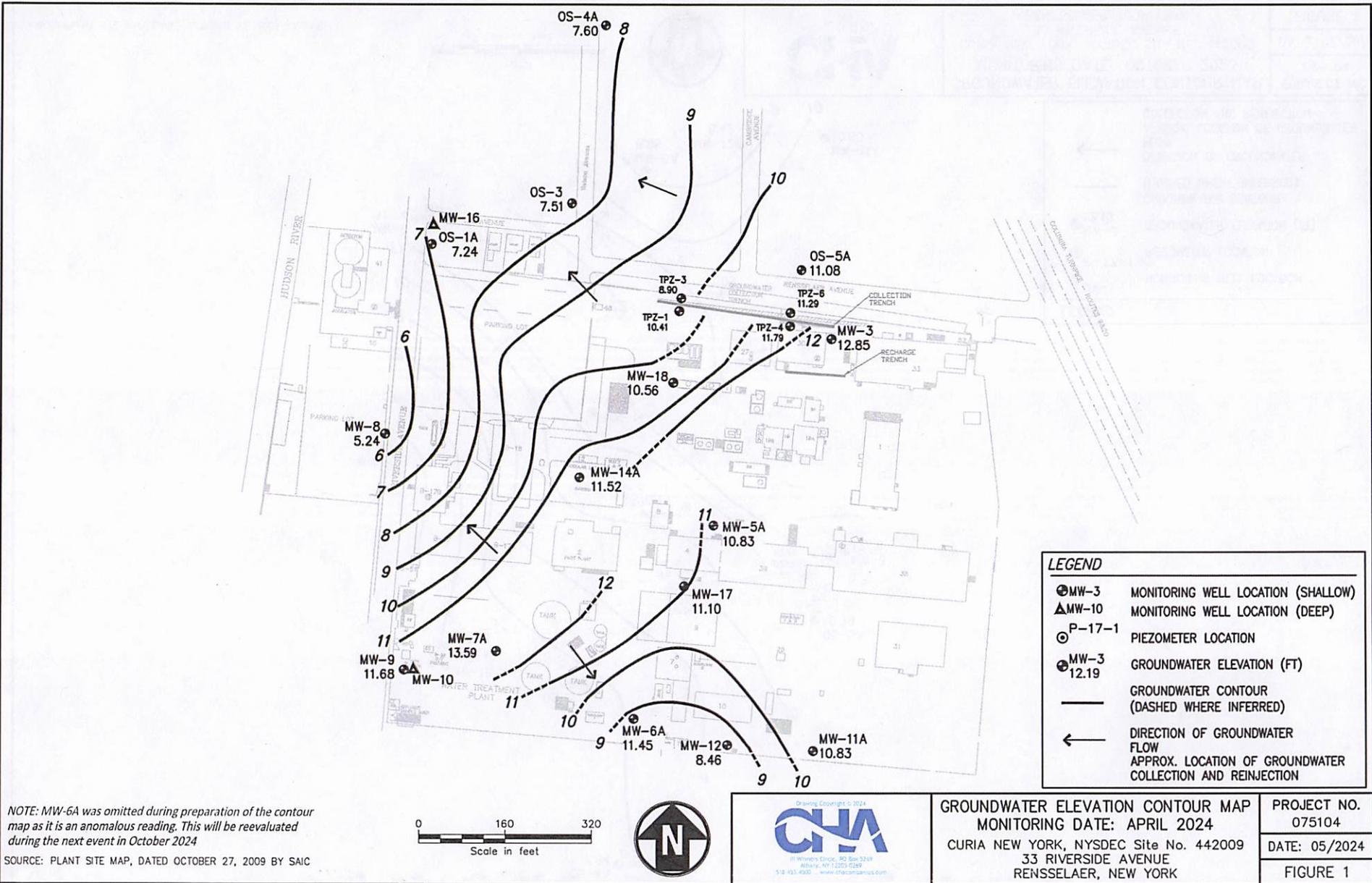
DRAFT

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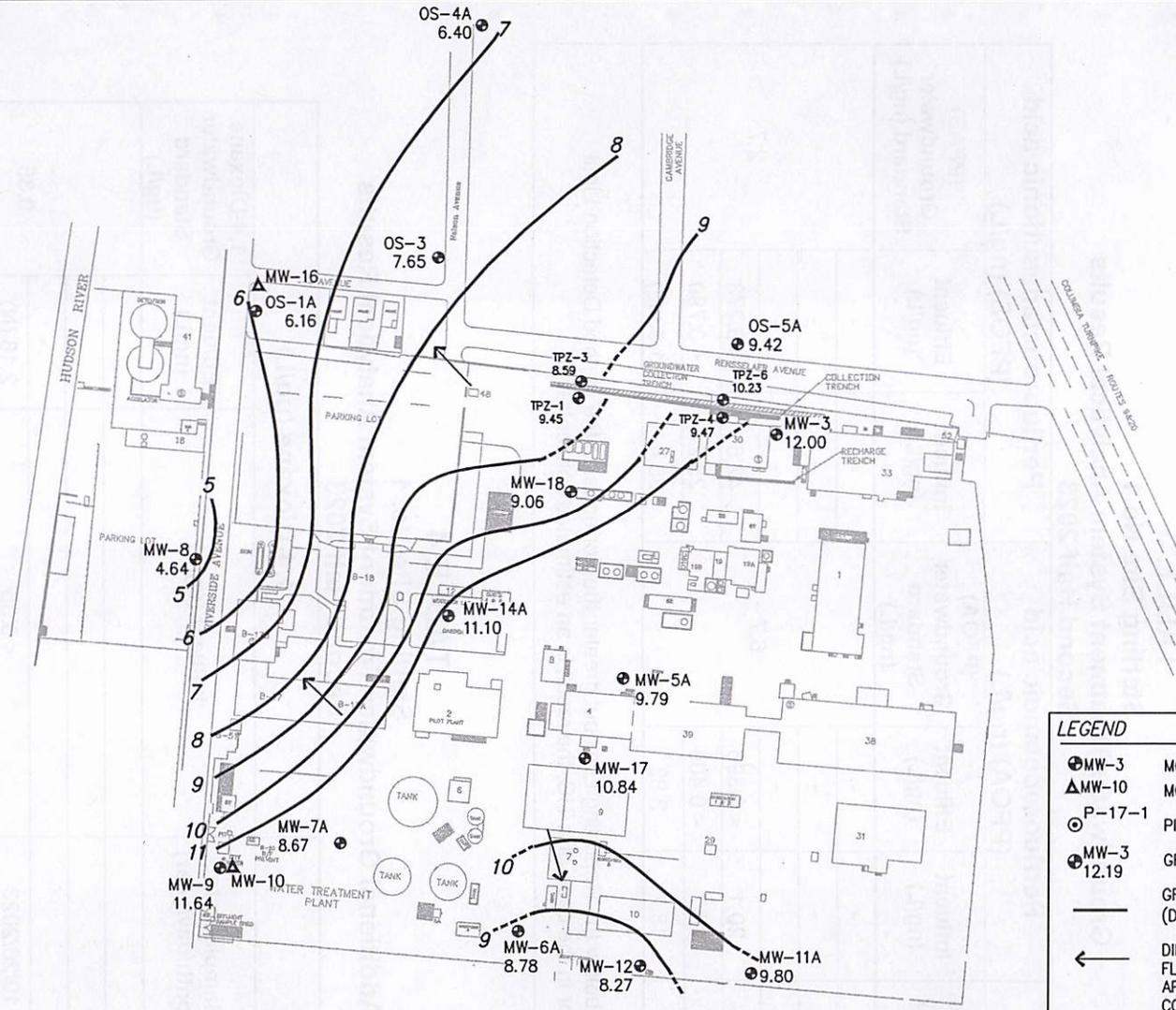


Attachment #2 - 4

File: V:\PROJECTS\ANY\K6\075104\000\09_DESIGN\DRAWINGS\ENV\2024 APRIL CONTOUR MAP.DWG
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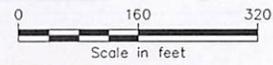
Attachment #2 - 5



| LEGEND | |
|-----------------|---|
| ● MW-3 | MONITORING WELL LOCATION (SHALLOW) |
| ▲ MW-10 | MONITORING WELL LOCATION (DEEP) |
| ○ P-17-1 | PIEZOMETER LOCATION |
| ● MW-3 12.19 | GROUNDWATER ELEVATION (FT) |
| — | GROUNDWATER CONTOUR (DASHED WHERE INFERRED) |
| ← | DIRECTION OF GROUNDWATER FLOW |
| ← | APPROX. LOCATION OF GROUNDWATER COLLECTION AND REINJECTION |

NOTE: MW-7A & MW-5A were omitted during preparation of the contour map as it is an anomalous reading. These will be reevaluated during the next event in April 2025

SOURCE: PLANT SITE MAP, DATED OCTOBER 27, 2009 BY SAIC



GROUNDWATER ELEVATION CONTOUR MAP
 MONITORING DATE: OCTOBER 2024
 CURIA NEW YORK, NYSDEC Site No. 442009
 33 RIVERSIDE AVENUE
 RENSSELAER, NEW YORK

PROJECT NO.
075104
 DATE: 12/2024
 FIGURE 1

Attachment #2 - 6



TABLE 3
Sterling Site No.1
Groundwater Treatment System Analytical Results
Second Half 2023

| Sample Date (month/day/year) | Perfluorooctanoic acid (PFOA) (ng/L) | | | Perfluorooctanesulfonic acid (PFOS) (ng/L) | | |
|---------------------------------|---|--------------------|---|---|--------------------|--|
| | Influent (ng/L) | Effluent (ng/L) | (PFOA) Groundwater Standard (ng/L) | Influent (ng/L) | Effluent (ng/L) | (PFAS) Groundwater Standard (ng/L) |
| - | - | - | 6.7 | - | - | 2.7 |
| - | - | - | | - | - | |
| - | - | - | | - | - | |
| 10/26/2023 | 20.1 | < 0.396 | | 42.5 | < 0.773 | |
| 11/28/2023 | 75.7 | < 0.405 | | 25.2 | < 0.790 | |
| 12/20/2023 | 18.7 | 3.82 | | 30.4 | 1.33 (J) | |

Notes:

J - Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration

TABLE 4
Sterling Site No. 1
Additional Groundwater Treatment System Analytical Results
Second Half 2023

| Sample Date (month/day/year) | 1,4-Dioxane (ug/L) | | |
|---------------------------------|--------------------|--------------------|--|
| | Influent (ug/L) | Effluent (ug/L) | 1,4-Dioxane Groundwater Standard (ug/L) |
| - | - | - | 0.35 |
| - | - | - | |
| - | - | - | |
| 10/26/2023 | < 0.35 | 2.18 (N) | |
| 11/28/2023 | 1.05 (S) | 1.13 (N) | |
| 12/20/2023 | 0.96 (S) | 2.15 (S) | |

Notes:

N - Matrix Spike below acceptable limits

S - LCS Spike recovery is below acceptable limits



TABLE 3
Sterling Site No. 1
Groundwater Treatment System Analytical Results
First Half 2024

| Sample Date (month/day/year) | 1,4-Dioxane (ug/L) | | 1,4-Dioxane Groundwater Standard (ug/L) |
|---------------------------------|--------------------|-----------------|--|
| | Influent (ug/L) | Effluent (ug/L) | |
| 1/23/24 | ND<0.35 (S) | ND<0.35 (S) | 0.35 |
| 2/22/24 | 1.68 | 1.41 | |
| 3/28/24 | 0.53 (S) | 0.89 (S,N) | |
| 4/18/24 | 0.43 | 1.42 | |
| 5/3/24 | 2.50 | 1.86 (Z) | |
| 6/27/24 | 2.02 | 1.64 | |

Notes:
N - Matrix Spike below acceptable limits
S - LCS Spike recovery is below acceptable limits

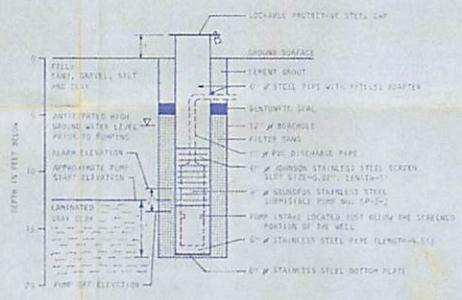
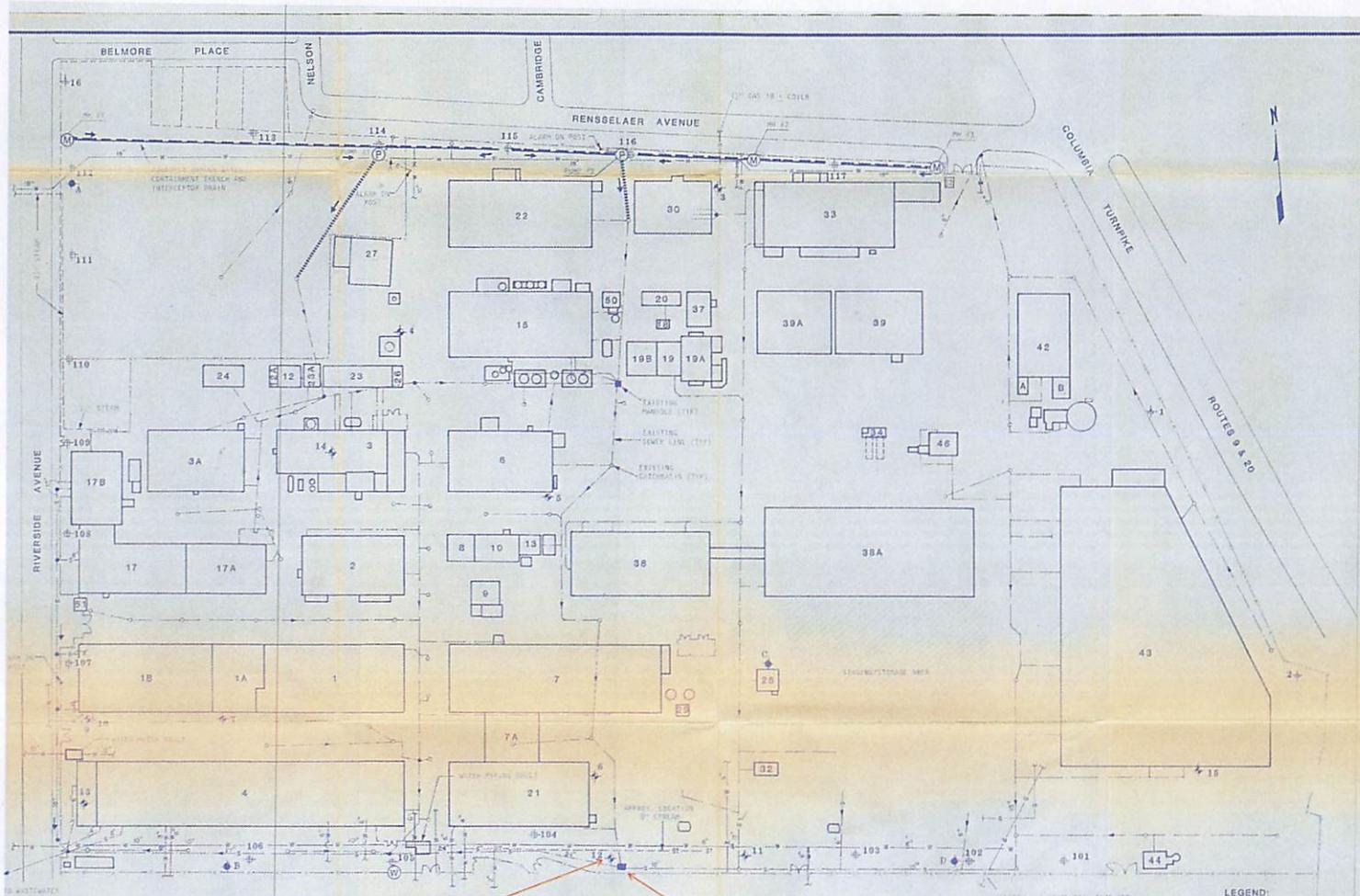


TABLE 3
Sterling Site No. 1
Groundwater Treatment System Analytical Results
Second Half 2024

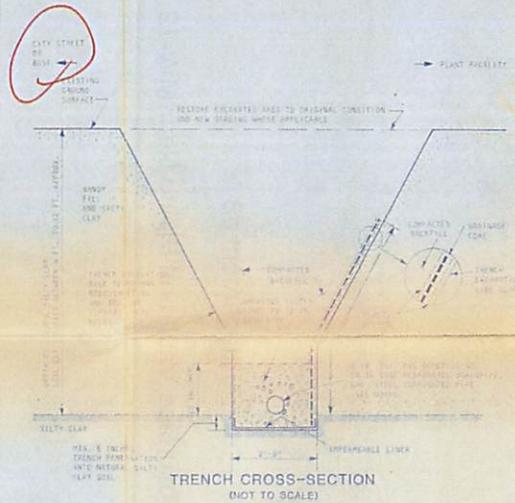
| | 1,4-Dioxane (ug/L) | | |
|---|--------------------|-----------------|--|
| Sample Date (month/day/year) | Influent (ug/L) | Effluent (ug/L) | 1,4-Dioxane Groundwater Standard (ug/L) |
| 7/29/2024 | 2.32 | ND | 0.35 |
| 8/8/2024 | ND | ND | |
| 9/19/2024 | ND | ND | |
| Notes: N - Matrix Spike below acceptable limits S - LCS Spike recovery is below acceptable limits | | | |

Attachment #3

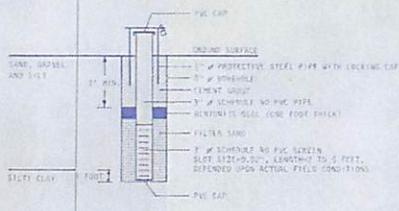
Subsurface Vault and Piping Near MW-12



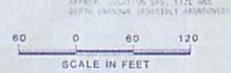
RECOVERY WELL CONSTRUCTION SCHEMATIC



TRENCH CROSS-SECTION (NOT TO SCALE)



MONITORING WELL CONSTRUCTION SCHEMATIC



LEGEND:

- PROPOSED GROUND WATER CONTAINMENT TRENCH AND INTERCEPTOR DRAIN FLOOR
- PROPOSED PUMP STATION
- PROPOSED MONITORING WELL
- PROPOSED ADDITIONAL MONITORING WELL TO BE SCHEDULED IN THE UPPER QUADDER
- MONITORING WELL SCREEN IN THE UPPER QUADDER
- MONITORING WELL SCREEN IN THE LOWER QUADDER
- WELL BODING
- EXISTING FENCE
- EXISTING CURB LINE
- EXISTING SAN LINE
- EXISTING WATER LINE WITH VALVE
- EXISTING UTILITY LINE

- NOTES:
- THE CONTRACTOR SHALL TAKE 60 PHOTOGRAPHS OF THE ALIGNMENT OF THE PROPOSED INTERCEPTOR DRAIN CONSTRUCTION AREA. PHOTOGRAPHS SHALL BE AS DETAILED IN THE SPECIFICATIONS.
 - THE MINIMUM TRENCH WIDTH AT A POINT TWENTY INCHES ABOVE THE TOP OF THE INTERCEPTOR DRAIN WILL BE THIRTY (30) INCHES.
 - RIFE SELECTION WILL BE BASED ON REACTIVITY EVALUATION.
 - FINAL DESIGN MAY VARY FROM THAT SHOWN AND WILL BE DETERMINED BY ACTUAL FIELD CONDITIONS.

Attachment #3 - 1

| | | |
|--|-----------------------------|--|
| NO. | DESCRIPTION | DATE |
| 1 | DESIGN | 10/12/78 |
| 2 | MODIFICATIONS (REVISION #1) | 10/14/78 |
| <p>DAMES & MOORE CONSULTING ENGINEERS 6 COMMERCIAL STREET, SUITE 2010 NEW YORK, N.Y. 10014</p> | | |
| <p>DESIGNED BY: DONALD J. MURPHY CHECKED BY: [Signature] DATE: [Date]</p> | | <p>SCALE: AS SHOWN DRAWING NUMBER: GWCS-1</p> |

STERLING DRUG INC.
 STERLING ORGANICS DIVISION
 RENSSELAER, NEW YORK

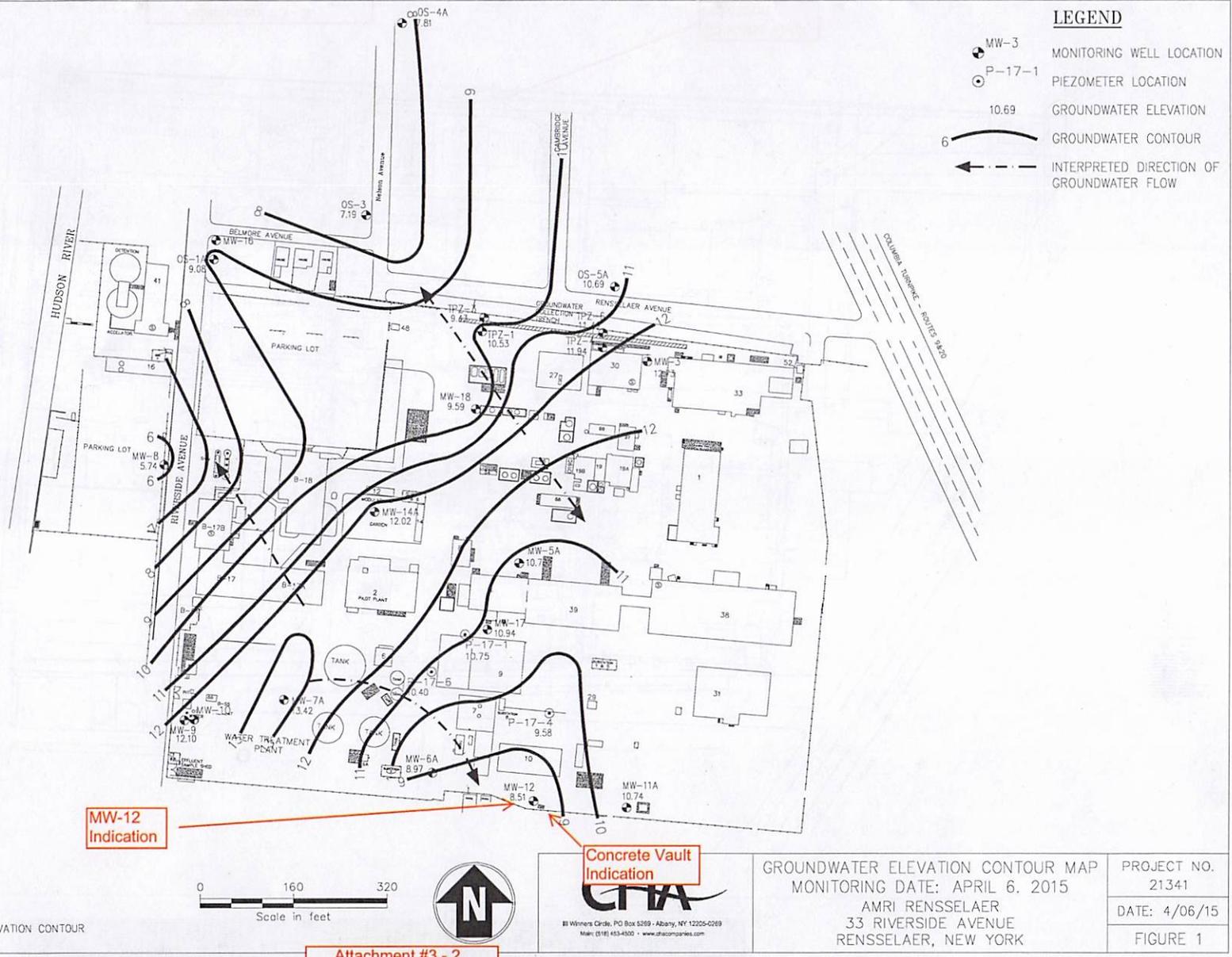
GROUND WATER CONTAINMENT
 AND COLLECTION SYSTEM
 REMEDIAL PROGRAM - UPPER AQUIFER

CONTAINMENT TRENCH
 AND INTERCEPTOR DRAIN

DRAWING NUMBER
GWCS-1

File: M:\21341\CADD\ACAD\FIGURES\ENVIRONMENTAL\21341_FIG1_2015-4-06.DWG
 Saved: 5/29/2015 3:00:52 PM. Plotted: 5/29/2015 4:15:21 PM User: Morrey, James LastSavedBy: 3031

SOURCE: PLANT SITE MAP, GROUNDWATER ELEVATION CONTOUR
 DATED OCTOBER 27, 2009 BY SAIC



MW-12 Indication

Concrete Vault Indication

Attachment #3 - 2



2022/03/11

Attachment #3 - 4



Attachment #3 - 5