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# ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-68483-1
Laboratory Sample Delivery Group: HOO
Client Project/Site: Hoosick Falls WTP

For:
CT Male Associates DPC
50 Century Hill Dr
Latham, New York 12110

Attn: Mr. Kirk Moline

*Authorized for release by:*
*1/11/2022 10:37:32 PM*

Paul Hobart, Project Manager
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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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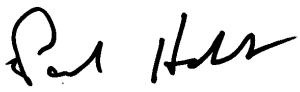

Paul Hobart
Project Manager
*1/11/2022 10:37:32 PM*

# Table of Contents

# Definitions/Glossary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Qualifiers

### LCMS

| Qualifier | Qualifier Description |
|---|---|
| E | Result exceeded calibration range. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| 1C | Result is from the primary column on a dual-column method. |
| 2C | Result is from the confirmation column on a dual-column method. |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 410-68483-1

**Laboratory: Eurofins Lancaster Laboratories Env, LLC**

**Narrative**

**Job Narrative**
**410-68483-1**

**Receipt**

The samples were received on 12/30/2021 10:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

**PFAS**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Client Sample ID: FTB01-211229 — Lab Sample ID: 410-68483-1

No Detections.

## Client Sample ID: LTB01-211229 — Lab Sample ID: 410-68483-2

No Detections.

## Client Sample ID: GAC Influent — Lab Sample ID: 410-68483-3

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorobutanoic acid | 4.2 | | 4.2 | | ng/L | 1 | | 537 (Mod) | Total/NA |
| Perfluorooctanesulfonamide | 2.2 | | 1.7 | | ng/L | 1 | | 537 (Mod) | Total/NA |
| Perfluoropentanoic acid | 4.1 | | 1.7 | | ng/L | 1 | | 537 (Mod) | Total/NA |
| Perfluorohexanoic acid | 16 | | 1.8 | | ng/L | 1 | | 537 DW | Total/NA |
| Perfluoroheptanoic acid | 17 | | 1.8 | | ng/L | 1 | | 537 DW | Total/NA |
| Perfluorobutanesulfonic acid | 1.8 | | 1.8 | | ng/L | 1 | | 537 DW | Total/NA |
| Perfluorooctanesulfonic acid | 3.3 | | 1.8 | | ng/L | 1 | | 537 DW | Total/NA |
| Perfluorooctanoic acid - DL | 580 | | 18 | | ng/L | 10 | | 537 DW | Total/NA |

## Client Sample ID: GAC Midfluent — Lab Sample ID: 410-68483-4

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorobutanoic acid | 6.1 | | 4.2 | | ng/L | 1 | | 537 (Mod) | Total/NA |

## Client Sample ID: GAC Effluent — Lab Sample ID: 410-68483-5

No Detections.

## Client Sample ID: PV-1 25 — Lab Sample ID: 410-68483-6

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorobutanoic acid | 6.1 | | 4.1 | | ng/L | 1 | | 537 (Mod) | Total/NA |

## Client Sample ID: PV-1 50 — Lab Sample ID: 410-68483-7

No Detections.

## Client Sample ID: PV-1 75 — Lab Sample ID: 410-68483-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

**Client Sample ID: FTB01-211229**
**Date Collected: 12/29/21 10:15**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-1**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.4 | U | 4.4 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.7 | U | 2.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| Perfluorobutanoic acid | 4.4 | U | 4.4 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| Perfluorodecanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| Perfluoroheptanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| Perfluorooctanesulfonamide | 1.8 | U | 1.8 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |
| Perfluoropentanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:35 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *112* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *M2-8:2 FTS* | *99* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *13C4 PFBA* | *94* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *13C5 PFPeA* | *101* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *13C8 PFOS* | *98* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *13C8 FOSA* | *77* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |
| *13C3 PFHxS* | *83* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 16:35* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *89* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:21* | *1* |
| *13C2 PFDA* | *95* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:21* | *1* |
| *13C2 PFHxA* | *98* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:21* | *1* |

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

**Client Sample ID: LTB01-211229**
**Date Collected: 12/29/21 00:00**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-2**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.4 | U | 4.4 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.6 | U | 2.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| Perfluorobutanoic acid | 4.4 | U | 4.4 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| Perfluorooctanesulfonamide | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |
| Perfluoropentanoic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:46 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *89* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *M2-8:2 FTS* | *77* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *13C4 PFBA* | *83* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *13C5 PFPeA* | *90* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *13C8 PFOS* | *88* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *13C8 FOSA* | *67* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |
| *13C3 PFHxS* | *66* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 16:46* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *83* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:33* | *1* |
| *13C2 PFDA* | *100* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:33* | *1* |
| *13C2 PFHxA* | *103* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:33* | *1* |

# Client Sample Results

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Client Sample ID: GAC Influent

**Date Collected: 12/29/21 10:25**
**Date Received: 12/30/21 10:34**

## Lab Sample ID: 410-68483-3

**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.2 | U | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.5 | U | 2.5 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| **Perfluorobutanoic acid** | **4.2** | | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| **Perfluorooctanesulfonamide** | **2.2** | | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |
| **Perfluoropentanoic acid** | **4.1** | | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 16:57 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *102* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *M2-8:2 FTS* | *121* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *13C4 PFBA* | *100* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *13C5 PFPeA* | *119* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *13C8 PFOS* | *108* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *13C8 FOSA* | *82* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |
| *13C3 PFHxS* | *105* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 16:57* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Perfluorohexanoic acid** | **16** | | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| **Perfluoroheptanoic acid** | **17** | | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| **Perfluorobutanesulfonic acid** | **1.8** | | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| **Perfluorooctanesulfonic acid** | **3.3** | | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *83* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:44* | *1* |
| *13C2 PFDA* | *111* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:44* | *1* |
| *13C2 PFHxA* | *118* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:44* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) - DL

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Perfluorooctanoic acid** | **580** | | 18 | | ng/L | | 01/06/22 16:52 | 01/11/22 16:56 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *88* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:56* | *10* |
| *13C2 PFDA* | *100* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:56* | *10* |
| *13C2 PFHxA* | *110* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 16:56* | *10* |

**Client Sample ID: GAC Midfluent**
**Date Collected: 12/29/21 10:30**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-4**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.2 | U | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.5 | U | 2.5 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| **Perfluorobutanoic acid** | **6.1** | | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| Perfluorooctanesulfonamide | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |
| Perfluoropentanoic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:08 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *116* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *M2-8:2 FTS* | *108* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *13C4 PFBA* | *98* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *13C5 PFPeA* | *107* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *13C8 PFOS* | *108* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *13C8 FOSA* | *81* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |
| *13C3 PFHxS* | *91* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 17:08* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *79* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:07* | *1* |
| *13C2 PFDA* | *86* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:07* | *1* |
| *13C2 PFHxA* | *98* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:07* | *1* |

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

**Client Sample ID: GAC Effluent**
**Date Collected: 12/29/21 10:35**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-5**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.3 | U | 4.3 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.6 | U | 2.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| Perfluorobutanoic acid | 4.3 | U | 4.3 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| Perfluorooctanesulfonamide | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |
| Perfluoropentanoic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:19 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *126* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *M2-8:2 FTS* | *123* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *13C4 PFBA* | *108* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *13C5 PFPeA* | *117* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *13C8 PFOS* | *114* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *13C8 FOSA* | *100* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |
| *13C3 PFHxS* | *107* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 17:19* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *83* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:19* | *1* |
| *13C2 PFDA* | *91* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:19* | *1* |
| *13C2 PFHxA* | *102* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:19* | *1* |

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

**Client Sample ID: PV-1 25**
**Date Collected: 12/29/21 10:40**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-6**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.1 | U | 4.1 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.4 | U | 2.4 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| **Perfluorobutanoic acid** | **6.1** | | 4.1 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| Perfluorodecanesulfonic acid | 1.6 | U | 1.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| Perfluoroheptanesulfonic acid | 1.6 | U | 1.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| Perfluorooctanesulfonamide | 1.6 | U | 1.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |
| Perfluoropentanoic acid | 1.6 | U | 1.6 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:30 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *112* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *M2-8:2 FTS* | *104* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *13C4 PFBA* | *95* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *13C5 PFPeA* | *106* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *13C8 PFOS* | *104* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *13C8 FOSA* | *89* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |
| *13C3 PFHxS* | *91* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 17:30* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *84* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:32* | *1* |
| *13C2 PFDA* | *88* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:32* | *1* |
| *13C2 PFHxA* | *96* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:32* | *1* |

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

**Client Sample ID: PV-1 50**
**Date Collected: 12/29/21 10:45**
**Date Received: 12/30/21 10:34**

**Lab Sample ID: 410-68483-7**
**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.2 | U | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.5 | U | 2.5 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| Perfluorobutanoic acid | 4.2 | U | 4.2 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| Perfluorooctanesulfonamide | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |
| Perfluoropentanoic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:41 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *97* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *M2-8:2 FTS* | *93* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *13C4 PFBA* | *93* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *13C5 PFPeA* | *99* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *13C8 PFOS* | *100* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *13C8 FOSA* | *85* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |
| *13C3 PFHxS* | *86* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 17:41* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *90* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:43* | *1* |
| *13C2 PFDA* | *97* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:43* | *1* |
| *13C2 PFHxA* | *102* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:43* | *1* |

## Client Sample ID: PV-1 75

**Date Collected: 12/29/21 10:50**
**Date Received: 12/30/21 10:34**

## Lab Sample ID: 410-68483-8

**Matrix: Water**

### Method: 537 (Mod) - EPA 537 Version 1.1 modified

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 4.1 | U | 4.1 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 2.5 | U | 2.5 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| Perfluorobutanoic acid | 4.1 | U | 4.1 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| Perfluorodecanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| Perfluoroheptanesulfonic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| Perfluorooctanesulfonamide | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |
| Perfluoropentanoic acid | 1.7 | U | 1.7 | | ng/L | | 01/05/22 17:59 | 01/06/22 17:52 | 1 |

| *Isotope Dilution* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *109* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *M2-8:2 FTS* | *111* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *13C4 PFBA* | *97* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *13C5 PFPeA* | *104* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *13C8 PFOS* | *100* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *13C8 FOSA* | *85* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |
| *13C3 PFHxS* | *88* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 17:52* | *1* |

### Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluoroheptanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorooctanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorononanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorodecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorotridecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorotetradecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorobutanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorohexanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorooctanesulfonic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| NEtFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| NMeFOSAA | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluoroundecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |
| Perfluorododecanoic acid | 1.8 | U | 1.8 | | ng/L | | 01/06/22 16:52 | 01/11/22 17:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *88* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:55* | *1* |
| *13C2 PFDA* | *95* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:55* | *1* |
| *13C2 PFHxA* | *103* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 17:55* | *1* |

# Surrogate Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | d5NEFOS | PFDA | PFHxA | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | (70-130) | | | | | | |
| 410-68483-1 | FTB01-211229 | 89 | 95 | 98 | | | | | | |
| 410-68483-2 | LTB01-211229 | 83 | 100 | 103 | | | | | | |
| 410-68483-3 | GAC Influent | 83 | 111 | 118 | | | | | | |
| 410-68483-3 - DL | GAC Influent | 88 | 100 | 110 | | | | | | |
| 410-68483-4 | GAC Midfluent | 79 | 86 | 98 | | | | | | |
| 410-68483-5 | GAC Effluent | 83 | 91 | 102 | | | | | | |
| 410-68483-6 | PV-1 25 | 84 | 88 | 96 | | | | | | |
| 410-68483-7 | PV-1 50 | 90 | 97 | 102 | | | | | | |
| 410-68483-8 | PV-1 75 | 88 | 95 | 103 | | | | | | |
| LCS 410-212465/2-A | Lab Control Sample | 88 | 100 | 103 | | | | | | |
| LCSD 410-212465/3-A | Lab Control Sample Dup | 78 | 90 | 97 | | | | | | |
| MB 410-212465/1-A | Method Blank | 95 | 104 | 114 | | | | | | |

**Surrogate Legend**

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

# Isotope Dilution Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Method: 537 (Mod) - EPA 537 Version 1.1 modified

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | M262FTS | M282FTS | PFBA | PFPeA | C8PFOS | PFOSA | C3PFHS |
| Lab Sample ID | Client Sample ID | (29-189) | (34-182) | (41-132) | (33-155) | (49-126) | (10-143) | (32-145) |
| 410-68483-1 | FTB01-211229 | 112 | 99 | 94 | 101 | 98 | 77 | 83 |
| 410-68483-2 | LTB01-211229 | 89 | 77 | 83 | 90 | 88 | 67 | 66 |
| 410-68483-3 | GAC Influent | 102 | 121 | 100 | 119 | 108 | 82 | 105 |
| 410-68483-4 | GAC Midfluent | 116 | 108 | 98 | 107 | 108 | 81 | 91 |
| 410-68483-5 | GAC Effluent | 126 | 123 | 108 | 117 | 114 | 100 | 107 |
| 410-68483-6 | PV-1 25 | 112 | 104 | 95 | 106 | 104 | 89 | 91 |
| 410-68483-7 | PV-1 50 | 97 | 93 | 93 | 99 | 100 | 85 | 86 |
| 410-68483-8 | PV-1 75 | 109 | 111 | 97 | 104 | 100 | 85 | 88 |
| LCS 410-212088/2-A | Lab Control Sample | 111 | 98 | 95 | 107 | 104 | 83 | 89 |
| LCSD 410-212088/3-A | Lab Control Sample Dup | 116 | 114 | 99 | 108 | 105 | 82 | 90 |
| MB 410-212088/1-A | Method Blank | 110 | 110 | 101 | 112 | 109 | 93 | 94 |

**Surrogate Legend**

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
C3PFHS = 13C3 PFHxS

## Method: 537 (Mod) - EPA 537 Version 1.1 modified

**Lab Sample ID: MB 410-212088/1-A**
**Matrix: Water**
**Analysis Batch: 212277**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 212088**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | 5.0 | U | 5.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 3.0 | U | 3.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| Perfluorobutanoic acid | 5.0 | U | 5.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| Perfluorodecanesulfonic acid | 2.0 | U | 2.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| Perfluoroheptanesulfonic acid | 2.0 | U | 2.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| Perfluorooctanesulfonamide | 2.0 | U | 2.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |
| Perfluoropentanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/05/22 17:59 | 01/06/22 15:50 | 1 |

| *Isotope Dilution* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *M2-6:2 FTS* | *110* | | *29 - 189* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *M2-8:2 FTS* | *110* | | *34 - 182* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *13C4 PFBA* | *101* | | *41 - 132* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *13C5 PFPeA* | *112* | | *33 - 155* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *13C8 PFOS* | *109* | | *49 - 126* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *13C8 FOSA* | *93* | | *10 - 143* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |
| *13C3 PFHxS* | *94* | | *32 - 145* | *01/05/22 17:59* | *01/06/22 15:50* | *1* |

**Lab Sample ID: LCS 410-212088/2-A**
**Matrix: Water**
**Analysis Batch: 212277**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 212088**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | | | 24.3 | 23.3 | | ng/L | | 96 | 57 - 137 | | |
| 8:2 Fluorotelomer sulfonic acid | | | 24.5 | 22.4 | | ng/L | | 91 | 56 - 140 | | |
| Perfluorobutanoic acid | | | 25.6 | 22.2 | | ng/L | | 87 | 62 - 156 | | |
| Perfluorodecanesulfonic acid | | | 24.7 | 20.5 | | ng/L | | 83 | 61 - 134 | | |
| Perfluoroheptanesulfonic acid | | | 24.4 | 20.8 | | ng/L | | 85 | 67 - 135 | | |
| Perfluorooctanesulfonamide | | | 25.6 | 26.7 | | ng/L | | 104 | 55 - 130 | | |
| Perfluoropentanoic acid | | | 25.6 | 20.9 | | ng/L | | 82 | 72 - 139 | | |

| *Isotope Dilution* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *M2-6:2 FTS* | *111* | | *29 - 189* |
| *M2-8:2 FTS* | *98* | | *34 - 182* |
| *13C4 PFBA* | *95* | | *41 - 132* |
| *13C5 PFPeA* | *107* | | *33 - 155* |
| *13C8 PFOS* | *104* | | *49 - 126* |
| *13C8 FOSA* | *83* | | *10 - 143* |
| *13C3 PFHxS* | *89* | | *32 - 145* |

**Lab Sample ID: LCSD 410-212088/3-A**
**Matrix: Water**
**Analysis Batch: 212277**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 212088**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:2 Fluorotelomer sulfonic acid | | | 24.3 | 22.9 | | ng/L | | 94 | 57 - 137 | 2 | 30 |
| 8:2 Fluorotelomer sulfonic acid | | | 24.5 | 20.5 | | ng/L | | 84 | 56 - 140 | 9 | 30 |
| Perfluorobutanoic acid | | | 25.6 | 22.0 | | ng/L | | 86 | 62 - 156 | 1 | 30 |
| Perfluorodecanesulfonic acid | | | 24.7 | 21.9 | | ng/L | | 89 | 61 - 134 | 7 | 30 |
| Perfluoroheptanesulfonic acid | | | 24.4 | 20.3 | | ng/L | | 83 | 67 - 135 | 2 | 30 |

## Method: 537 (Mod) - EPA 537 Version 1.1 modified (Continued)

**Lab Sample ID: LCSD 410-212088/3-A**
**Matrix: Water**
**Analysis Batch: 212277**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 212088**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorooctanesulfonamide | | | 25.6 | 28.2 | | ng/L | | 110 | 55 - 130 | 6 | 30 |
| Perfluoropentanoic acid | | | 25.6 | 20.9 | | ng/L | | 82 | 72 - 139 | 0 | 30 |

| *Isotope Dilution* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *M2-6:2 FTS* | *116* | | *29 - 189* |
| *M2-8:2 FTS* | *114* | | *34 - 182* |
| *13C4 PFBA* | *99* | | *41 - 132* |
| *13C5 PFPeA* | *108* | | *33 - 155* |
| *13C8 PFOS* | *105* | | *49 - 126* |
| *13C8 FOSA* | *82* | | *10 - 143* |
| *13C3 PFHxS* | *90* | | *32 - 145* |

## Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

**Lab Sample ID: MB 410-212465/1-A**
**Matrix: Water**
**Analysis Batch: 213524**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 212465**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluoroheptanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorooctanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorononanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorodecanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorotridecanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorotetradecanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorobutanesulfonic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorohexanesulfonic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorooctanesulfonic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| NEtFOSAA | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| NMeFOSAA | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluoroundecanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |
| Perfluorododecanoic acid | 2.0 | U | 2.0 | | ng/L | | 01/06/22 16:52 | 01/11/22 15:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *d5-NEtFOSAA* | *95* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 15:34* | *1* |
| *13C2 PFDA* | *104* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 15:34* | *1* |
| *13C2 PFHxA* | *114* | | *70 - 130* | *01/06/22 16:52* | *01/11/22 15:34* | *1* |

**Lab Sample ID: LCS 410-212465/2-A**
**Matrix: Water**
**Analysis Batch: 213524**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 212465**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | | | 80.0 | 78.8 | | ng/L | | 98 | 70 - 130 | | |
| Perfluoroheptanoic acid | | | 80.0 | 77.5 | | ng/L | | 97 | 70 - 130 | | |
| Perfluorooctanoic acid | | | 80.0 | 78.3 | | ng/L | | 98 | 70 - 130 | | |
| Perfluorononanoic acid | | | 80.0 | 77.8 | | ng/L | | 97 | 70 - 130 | | |
| Perfluorodecanoic acid | | | 80.0 | 81.3 | E | ng/L | | 102 | 70 - 130 | | |

## Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

**Lab Sample ID: LCS 410-212465/2-A**
**Matrix: Water**
**Analysis Batch: 213524**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 212465**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorotridecanoic acid | | | 80.0 | 78.0 | | ng/L | | 98 | 70 - 130 | | |
| Perfluorotetradecanoic acid | | | 80.0 | 77.4 | | ng/L | | 97 | 70 - 130 | | |
| Perfluorobutanesulfonic acid | | | 70.8 | 59.6 | | ng/L | | 84 | 70 - 130 | | |
| Perfluorohexanesulfonic acid | | | 73.0 | 63.0 | | ng/L | | 86 | 70 - 130 | | |
| Perfluorooctanesulfonic acid | | | 74.0 | 61.8 | | ng/L | | 83 | 70 - 130 | | |
| NEtFOSAA | | | 80.0 | 72.6 | | ng/L | | 91 | 70 - 130 | | |
| NMeFOSAA | | | 80.0 | 74.0 | | ng/L | | 92 | 70 - 130 | | |
| Perfluoroundecanoic acid | | | 80.0 | 78.2 | | ng/L | | 98 | 70 - 130 | | |
| Perfluorododecanoic acid | | | 80.0 | 78.3 | | ng/L | | 98 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *d5-NEtFOSAA* | *88* | | *70 - 130* |
| *13C2 PFDA* | *100* | | *70 - 130* |
| *13C2 PFHxA* | *103* | | *70 - 130* |

**Lab Sample ID: LCSD 410-212465/3-A**
**Matrix: Water**
**Analysis Batch: 213524**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 212465**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorohexanoic acid | | | 80.0 | 77.6 | | ng/L | | 97 | 70 - 130 | 2 | 30 |
| Perfluoroheptanoic acid | | | 80.0 | 77.0 | | ng/L | | 96 | 70 - 130 | 1 | 30 |
| Perfluorooctanoic acid | | | 80.0 | 76.9 | | ng/L | | 96 | 70 - 130 | 2 | 30 |
| Perfluorononanoic acid | | | 80.0 | 78.0 | | ng/L | | 97 | 70 - 130 | 0 | 30 |
| Perfluorodecanoic acid | | | 80.0 | 77.7 | | ng/L | | 97 | 70 - 130 | 5 | 30 |
| Perfluorotridecanoic acid | | | 80.0 | 73.2 | | ng/L | | 92 | 70 - 130 | 6 | 30 |
| Perfluorotetradecanoic acid | | | 80.0 | 72.7 | | ng/L | | 91 | 70 - 130 | 6 | 30 |
| Perfluorobutanesulfonic acid | | | 70.8 | 60.6 | | ng/L | | 86 | 70 - 130 | 2 | 30 |
| Perfluorohexanesulfonic acid | | | 73.0 | 63.4 | | ng/L | | 87 | 70 - 130 | 1 | 30 |
| Perfluorooctanesulfonic acid | | | 74.0 | 61.4 | | ng/L | | 83 | 70 - 130 | 1 | 30 |
| NEtFOSAA | | | 80.0 | 70.5 | | ng/L | | 88 | 70 - 130 | 3 | 30 |
| NMeFOSAA | | | 80.0 | 70.9 | | ng/L | | 89 | 70 - 130 | 4 | 30 |
| Perfluoroundecanoic acid | | | 80.0 | 75.3 | | ng/L | | 94 | 70 - 130 | 4 | 30 |
| Perfluorododecanoic acid | | | 80.0 | 72.5 | | ng/L | | 91 | 70 - 130 | 8 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *d5-NEtFOSAA* | *78* | | *70 - 130* |
| *13C2 PFDA* | *90* | | *70 - 130* |
| *13C2 PFHxA* | *97* | | *70 - 130* |

## LCMS

### Prep Batch: 212088

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-68483-1 | FTB01-211229 | Total/NA | Water | 537 (Mod) | |
| 410-68483-2 | LTB01-211229 | Total/NA | Water | 537 (Mod) | |
| 410-68483-3 | GAC Influent | Total/NA | Water | 537 (Mod) | |
| 410-68483-4 | GAC Midfluent | Total/NA | Water | 537 (Mod) | |
| 410-68483-5 | GAC Effluent | Total/NA | Water | 537 (Mod) | |
| 410-68483-6 | PV-1 25 | Total/NA | Water | 537 (Mod) | |
| 410-68483-7 | PV-1 50 | Total/NA | Water | 537 (Mod) | |
| 410-68483-8 | PV-1 75 | Total/NA | Water | 537 (Mod) | |
| MB 410-212088/1-A | Method Blank | Total/NA | Water | 537 (Mod) | |
| LCS 410-212088/2-A | Lab Control Sample | Total/NA | Water | 537 (Mod) | |
| LCSD 410-212088/3-A | Lab Control Sample Dup | Total/NA | Water | 537 (Mod) | |

### Analysis Batch: 212277

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-68483-1 | FTB01-211229 | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-2 | LTB01-211229 | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-3 | GAC Influent | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-4 | GAC Midfluent | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-5 | GAC Effluent | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-6 | PV-1 25 | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-7 | PV-1 50 | Total/NA | Water | 537 (Mod) | 212088 |
| 410-68483-8 | PV-1 75 | Total/NA | Water | 537 (Mod) | 212088 |
| MB 410-212088/1-A | Method Blank | Total/NA | Water | 537 (Mod) | 212088 |
| LCS 410-212088/2-A | Lab Control Sample | Total/NA | Water | 537 (Mod) | 212088 |
| LCSD 410-212088/3-A | Lab Control Sample Dup | Total/NA | Water | 537 (Mod) | 212088 |

### Prep Batch: 212465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-68483-1 | FTB01-211229 | Total/NA | Water | 537 DW | |
| 410-68483-2 | LTB01-211229 | Total/NA | Water | 537 DW | |
| 410-68483-3 | GAC Influent | Total/NA | Water | 537 DW | |
| 410-68483-3 - DL | GAC Influent | Total/NA | Water | 537 DW | |
| 410-68483-4 | GAC Midfluent | Total/NA | Water | 537 DW | |
| 410-68483-5 | GAC Effluent | Total/NA | Water | 537 DW | |
| 410-68483-6 | PV-1 25 | Total/NA | Water | 537 DW | |
| 410-68483-7 | PV-1 50 | Total/NA | Water | 537 DW | |
| 410-68483-8 | PV-1 75 | Total/NA | Water | 537 DW | |
| MB 410-212465/1-A | Method Blank | Total/NA | Water | 537 DW | |
| LCS 410-212465/2-A | Lab Control Sample | Total/NA | Water | 537 DW | |
| LCSD 410-212465/3-A | Lab Control Sample Dup | Total/NA | Water | 537 DW | |

### Analysis Batch: 213524

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-68483-1 | FTB01-211229 | Total/NA | Water | 537 DW | 212465 |
| 410-68483-2 | LTB01-211229 | Total/NA | Water | 537 DW | 212465 |
| 410-68483-3 | GAC Influent | Total/NA | Water | 537 DW | 212465 |
| 410-68483-3 - DL | GAC Influent | Total/NA | Water | 537 DW | 212465 |
| 410-68483-4 | GAC Midfluent | Total/NA | Water | 537 DW | 212465 |
| 410-68483-5 | GAC Effluent | Total/NA | Water | 537 DW | 212465 |
| 410-68483-6 | PV-1 25 | Total/NA | Water | 537 DW | 212465 |
| 410-68483-7 | PV-1 50 | Total/NA | Water | 537 DW | 212465 |

## LCMS (Continued)

### Analysis Batch: 213524 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 410-68483-8 | PV-1 75 | Total/NA | Water | 537 DW | 212465 |
| MB 410-212465/1-A | Method Blank | Total/NA | Water | 537 DW | 212465 |
| LCS 410-212465/2-A | Lab Control Sample | Total/NA | Water | 537 DW | 212465 |
| LCSD 410-212465/3-A | Lab Control Sample Dup | Total/NA | Water | 537 DW | 212465 |

# Lab Chronicle

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Client Sample ID: FTB01-211229
**Lab Sample ID: 410-68483-1**
**Date Collected: 12/29/21 10:15**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 16:35 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 16:21 | PY4D | ELLE |

## Client Sample ID: LTB01-211229
**Lab Sample ID: 410-68483-2**
**Date Collected: 12/29/21 00:00**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 16:46 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 16:33 | PY4D | ELLE |

## Client Sample ID: GAC Influent
**Lab Sample ID: 410-68483-3**
**Date Collected: 12/29/21 10:25**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 16:57 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 16:44 | PY4D | ELLE |
| Total/NA | Prep | 537 DW | DL | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | DL | 10 | 213524 | 01/11/22 16:56 | PY4D | ELLE |

## Client Sample ID: GAC Midfluent
**Lab Sample ID: 410-68483-4**
**Date Collected: 12/29/21 10:30**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 17:08 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 17:07 | PY4D | ELLE |

## Client Sample ID: GAC Effluent
**Lab Sample ID: 410-68483-5**
**Date Collected: 12/29/21 10:35**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 17:19 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 17:19 | PY4D | ELLE |

# Lab Chronicle

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Client Sample ID: PV-1 25

**Lab Sample ID: 410-68483-6**

**Date Collected: 12/29/21 10:40**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 17:30 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 17:32 | PY4D | ELLE |

## Client Sample ID: PV-1 50

**Lab Sample ID: 410-68483-7**

**Date Collected: 12/29/21 10:45**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 17:41 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 17:43 | PY4D | ELLE |

## Client Sample ID: PV-1 75

**Lab Sample ID: 410-68483-8**

**Date Collected: 12/29/21 10:50**
**Matrix: Water**
**Date Received: 12/30/21 10:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 537 (Mod) | | | 212088 | 01/05/22 17:59 | ZWK6 | ELLE |
| Total/NA | Analysis | 537 (Mod) | | 1 | 212277 | 01/06/22 17:52 | ZG8V | ELLE |
| Total/NA | Prep | 537 DW | | | 212465 | 01/06/22 16:52 | GU2F | ELLE |
| Total/NA | Analysis | 537 DW | | 1 | 213524 | 01/11/22 17:55 | PY4D | ELLE |

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10670 | 04-01-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 537 (Mod) | 537 (Mod) | Water | 6:2 Fluorotelomer sulfonic acid |
| 537 (Mod) | 537 (Mod) | Water | 8:2 Fluorotelomer sulfonic acid |
| 537 (Mod) | 537 (Mod) | Water | Perfluorobutanoic acid |
| 537 (Mod) | 537 (Mod) | Water | Perfluorodecanesulfonic acid |
| 537 (Mod) | 537 (Mod) | Water | Perfluoroheptanesulfonic acid |
| 537 (Mod) | 537 (Mod) | Water | Perfluorooctanesulfonamide |
| 537 (Mod) | 537 (Mod) | Water | Perfluoropentanoic acid |
| 537 DW | 537 DW | Water | NEtFOSAA |
| 537 DW | 537 DW | Water | NMeFOSAA |
| 537 DW | 537 DW | Water | Perfluorobutanesulfonic acid |
| 537 DW | 537 DW | Water | Perfluorodecanoic acid |
| 537 DW | 537 DW | Water | Perfluorododecanoic acid |
| 537 DW | 537 DW | Water | Perfluoroheptanoic acid |
| 537 DW | 537 DW | Water | Perfluorohexanesulfonic acid |
| 537 DW | 537 DW | Water | Perfluorohexanoic acid |
| 537 DW | 537 DW | Water | Perfluorononanoic acid |
| 537 DW | 537 DW | Water | Perfluorooctanesulfonic acid |
| 537 DW | 537 DW | Water | Perfluorooctanoic acid |
| 537 DW | 537 DW | Water | Perfluorotetradecanoic acid |
| 537 DW | 537 DW | Water | Perfluorotridecanoic acid |
| 537 DW | 537 DW | Water | Perfluoroundecanoic acid |

# Method Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 537 (Mod) | EPA 537 Version 1.1 modified | EPA | ELLE |
| 537 DW | Perfluorinated Alkyl Acids (LC/MS) | EPA | ELLE |
| 537 (Mod) | 537 Version 1.1 modified | EPA | ELLE |
| 537 DW | Extraction of Perfluorinated Alkyl Acids | EPA | ELLE |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Sample Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-68483-1
SDG: HOO

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 410-68483-1 | FTB01-211229 | Water | 12/29/21 10:15 | 12/30/21 10:34 |
| 410-68483-2 | LTB01-211229 | Water | 12/29/21 00:00 | 12/30/21 10:34 |
| 410-68483-3 | GAC Influent | Water | 12/29/21 10:25 | 12/30/21 10:34 |
| 410-68483-4 | GAC Midfluent | Water | 12/29/21 10:30 | 12/30/21 10:34 |
| 410-68483-5 | GAC Effluent | Water | 12/29/21 10:35 | 12/30/21 10:34 |
| 410-68483-6 | PV-1 25 | Water | 12/29/21 10:40 | 12/30/21 10:34 |
| 410-68483-7 | PV-1 50 | Water | 12/29/21 10:45 | 12/30/21 10:34 |
| 410-68483-8 | PV-1 75 | Water | 12/29/21 10:50 | 12/30/21 10:34 |

# Environmental Analysis of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # __

410-68483 Chain of Custody

...ironmental use only

... # _____

**COC # 544946**

## Client Information

| | |
|---|---|
| Client: C.T. Male Associates | Acct. #: |
| Project Name/#: Hoosick Falls WTP | PWSID #: |
| Project Manager: Kirk Moline | P.O. #: AA756 |
| Sampler: Dan King | Quote #: |
| State where samples were collected: NY | For Compliance: Yes ☐ No ☐ |

## Matrix

Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐ | Other: Rinse Water

## Analysis Requested

Preservation Codes: NJ

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | 7 PFAS (EPA 537 mod.) | 14 PFAS (EPA 537 v1.1) |
|---|---|---|---|---|---|---|---|
| FTB01-211229 | 12/29/21 | 1015 | ✓ | | 4 | ✓ | ✓ |
| LTB01-211229 | | — | ✓ | | 4 | ✓ | ✓ |
| GAC Influent | | 1025 | ✓ | | 4 | ✓ | ✓ |
| GAC Midfluent | | 1030 | ✓ | | 4 | ✓ | ✓ |
| GAC Effluent | | 1035 | ✓ | | 4 | ✓ | ✓ |
| PV-1 25 | | 1040 | ✓ | | 4 | ✓ | ✓ |
| PV-1 50 | | 1045 | ✓ | | 4 | ✓ | ✓ |
| PV-1 75 | | 1050 | ✓ | | 4 | ✓ | ✓ |

For Lab Use Only
FSC: _____
SCR#: _____

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**
1 of 1

**Turnaround Time (TAT) Requested** (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: K.moline@ctmale.com

**Data Package Options** (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP)
Type VI (Raw Data Only)
Type III (Reduced non-CLP)
NJ DKQP
TX TRRP-13
NYSDEC Category A or B
MA MCP
CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 12/29/21 | 1500 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | [signature] | 12/30/21 | 1034 |

EDD Required? Yes No
If yes, format: EQuIS

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx ✓ Other _____

Temperature upon receipt 0.7 °C

DAB

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

# Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-68483-1
SDG Number: HOO

**Login Number: 68483**
**List Number: 1**
**Creator: Bryan, Debra A**

**List Source: Eurofins Lancaster Laboratories Env, LLC**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable (</=6C, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses. | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample custody seals are intact. | True | |