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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: 410-69799-1
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:
1/31/2022 9:57:35 AM

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
1/31/2022 9:57:35 AM

Table of Contents

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: 410-69799-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-69799-1

Receipt

The samples were received on 1/14/2022 10:48 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 0.9°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: 410-69799-1
SDG: HOO

Client Sample ID: GAC INFLUENT — Lab Sample ID: 410-69799-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	4.7		4.6		ng/L	1		537 (Mod)	Total/NA
Perfluoropentanoic acid	4.5		1.8		ng/L	1		537 (Mod)	Total/NA
Perfluorohexanoic acid	14		1.8		ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	16		1.8		ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	2.0		1.8		ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	3.9		1.8		ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid - DL	550		18		ng/L	10		537 DW	Total/NA

Client Sample ID: GAC MIDFLUENT — Lab Sample ID: 410-69799-2

No Detections.

Client Sample ID: GAC EFFLUENT — Lab Sample ID: 410-69799-3

No Detections.

Client Sample ID: PV-1_25 — Lab Sample ID: 410-69799-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	6.4		4.3		ng/L	1		537 (Mod)	Total/NA

Client Sample ID: PV-1_50 — Lab Sample ID: 410-69799-5

No Detections.

Client Sample ID: PV-1_75 — Lab Sample ID: 410-69799-6

No Detections.

Client Sample ID: FTB01-220113 — Lab Sample ID: 410-69799-7

No Detections.

Client Sample ID: LTB01-220113 — Lab Sample ID: 410-69799-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: GAC INFLUENT

Date Collected: 01/13/22 09:30
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-1

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	4.6	U	4.6		ng/L		01/26/22 17:17	01/27/22 20:54	1
8:2 Fluorotelomer sulfonic acid	2.7	U	2.7		ng/L		01/26/22 17:17	01/27/22 20:54	1
Perfluorobutanoic acid	**4.7**		4.6		ng/L		01/26/22 17:17	01/27/22 20:54	1
Perfluorodecanesulfonic acid	1.8	U	1.8		ng/L		01/26/22 17:17	01/27/22 20:54	1
Perfluoroheptanesulfonic acid	1.8	U	1.8		ng/L		01/26/22 17:17	01/27/22 20:54	1
Perfluorooctanesulfonamide	1.8	U *+	1.8		ng/L		01/26/22 17:17	01/27/22 20:54	1
Perfluoropentanoic acid	**4.5**		1.8		ng/L		01/26/22 17:17	01/27/22 20:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*78*		*17 - 200*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
M2-8:2 FTS	*107*		*33 - 200*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
13C4 PFBA	*98*		*42 - 165*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
13C5 PFPeA	*99*		*38 - 187*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
13C8 PFOS	*87*		*51 - 159*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
13C8 FOSA	*67*		*10 - 168*	*01/26/22 17:17*	*01/27/22 20:54*	*1*
13C3 PFHxS	*106*		*28 - 188*	*01/26/22 17:17*	*01/27/22 20:54*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**14**		1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluoroheptanoic acid	**16**		1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorobutanesulfonic acid	**2.0**		1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorooctanesulfonic acid	**3.9**		1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
NEtFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
NMeFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/23/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*01/20/22 17:02*	*01/23/22 23:52*	*1*
13C2 PFDA	*122*		*70 - 130*	*01/20/22 17:02*	*01/23/22 23:52*	*1*
13C2 PFHxA	*117*		*70 - 130*	*01/20/22 17:02*	*01/23/22 23:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**550**		18		ng/L		01/20/22 17:02	01/24/22 15:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*01/20/22 17:02*	*01/24/22 15:31*	*10*
13C2 PFDA	*103*		*70 - 130*	*01/20/22 17:02*	*01/24/22 15:31*	*10*
13C2 PFHxA	*119*		*70 - 130*	*01/20/22 17:02*	*01/24/22 15:31*	*10*

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: GAC MIDFLUENT
Date Collected: 01/13/22 09:35
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-2
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	4.5	U	4.5		ng/L		01/22/22 03:24	01/25/22 12:02	1
8:2 Fluorotelomer sulfonic acid	2.7	U	2.7		ng/L		01/22/22 03:24	01/25/22 12:02	1
Perfluorobutanoic acid	4.5	U	4.5		ng/L		01/22/22 03:24	01/25/22 12:02	1
Perfluorodecanesulfonic acid	1.8	U	1.8		ng/L		01/22/22 03:24	01/25/22 12:02	1
Perfluoroheptanesulfonic acid	1.8	U	1.8		ng/L		01/22/22 03:24	01/25/22 12:02	1
Perfluorooctanesulfonamide	1.8	U *+	1.8		ng/L		01/22/22 03:24	01/25/22 12:02	1
Perfluoropentanoic acid	1.8	U	1.8		ng/L		01/22/22 03:24	01/25/22 12:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*79*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
M2-8:2 FTS	*87*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
13C4 PFBA	*99*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
13C5 PFPeA	*99*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
13C8 PFOS	*92*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
13C8 FOSA	*83*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:02*	*1*
13C3 PFHxS	*88*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
NEtFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
NMeFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:03*	*1*
13C2 PFDA	*97*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:03*	*1*
13C2 PFHxA	*100*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:03*	*1*

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: GAC EFFLUENT

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-3

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	4.3	U	4.3		ng/L		01/22/22 03:24	01/25/22 12:13	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		01/22/22 03:24	01/25/22 12:13	1
Perfluorobutanoic acid	4.3	U	4.3		ng/L		01/22/22 03:24	01/25/22 12:13	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:13	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:13	1
Perfluorooctanesulfonamide	1.7	U *+	1.7		ng/L		01/22/22 03:24	01/25/22 12:13	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*79*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
M2-8:2 FTS	*89*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
13C4 PFBA	*100*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
13C5 PFPeA	*97*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
13C8 PFOS	*96*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
13C8 FOSA	*83*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:13*	*1*
13C3 PFHxS	*94*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:13*	*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		01/20/22 17:02	01/24/22 00:15	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
NEtFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
NMeFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:15*	*1*
13C2 PFDA	*92*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:15*	*1*
13C2 PFHxA	*96*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:15*	*1*

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: PV-1_25
Date Collected: 01/13/22 09:45
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-4
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	4.3	U	4.3		ng/L		01/22/22 03:24	01/25/22 12:24	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		01/22/22 03:24	01/25/22 12:24	1
Perfluorobutanoic acid	**6.4**		4.3		ng/L		01/22/22 03:24	01/25/22 12:24	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:24	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:24	1
Perfluorooctanesulfonamide	1.7	U *+	1.7		ng/L		01/22/22 03:24	01/25/22 12:24	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*76*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
M2-8:2 FTS	*89*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
13C4 PFBA	*93*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
13C5 PFPeA	*93*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
13C8 PFOS	*90*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
13C8 FOSA	*78*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:24*	*1*
13C3 PFHxS	*83*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:24*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
NEtFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
NMeFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:26*	*1*
13C2 PFDA	*93*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:26*	*1*
13C2 PFHxA	*99*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:26*	*1*

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: PV-1_50
Date Collected: 01/13/22 09:50
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-5
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	4.1	U	4.1		ng/L		01/22/22 03:24	01/25/22 12:35	1
8:2 Fluorotelomer sulfonic acid	2.4	U	2.4		ng/L		01/22/22 03:24	01/25/22 12:35	1
Perfluorobutanoic acid	4.1	U	4.1		ng/L		01/22/22 03:24	01/25/22 12:35	1
Perfluorodecanesulfonic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:35	1
Perfluoroheptanesulfonic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:35	1
Perfluorooctanesulfonamide	1.6	U *+	1.6		ng/L		01/22/22 03:24	01/25/22 12:35	1
Perfluoropentanoic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*71*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
M2-8:2 FTS	*87*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
13C4 PFBA	*95*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
13C5 PFPeA	*92*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
13C8 PFOS	*91*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
13C8 FOSA	*83*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:35*	*1*
13C3 PFHxS	*92*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:35*	*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		01/20/22 17:02	01/24/22 00:38	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
NEtFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
NMeFOSAA	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		01/20/22 17:02	01/24/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:38*	*1*
13C2 PFDA	*98*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:38*	*1*
13C2 PFHxA	*102*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:38*	*1*

Client Sample ID: PV-1_75

Date Collected: 01/13/22 09:55
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-6

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	4.2	U	4.2		ng/L		01/22/22 03:24	01/25/22 12:46	1
8:2 Fluorotelomer sulfonic acid	2.5	U	2.5		ng/L		01/22/22 03:24	01/25/22 12:46	1
Perfluorobutanoic acid	4.2	U	4.2		ng/L		01/22/22 03:24	01/25/22 12:46	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:46	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:46	1
Perfluorooctanesulfonamide	1.7	U *+	1.7		ng/L		01/22/22 03:24	01/25/22 12:46	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 12:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*73*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
M2-8:2 FTS	*93*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
13C4 PFBA	*97*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
13C5 PFPeA	*96*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
13C8 PFOS	*94*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
13C8 FOSA	*85*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:46*	*1*
13C3 PFHxS	*90*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
NEtFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
NMeFOSAA	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		01/20/22 17:02	01/24/22 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:50*	*1*
13C2 PFDA	*99*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:50*	*1*
13C2 PFHxA	*102*		*70 - 130*	*01/20/22 17:02*	*01/24/22 00:50*	*1*

Client Sample ID: FTB01-220113

Date Collected: 01/13/22 10:00
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-7

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	4.1	U	4.1		ng/L		01/22/22 03:24	01/25/22 12:57	1
8:2 Fluorotelomer sulfonic acid	2.4	U	2.4		ng/L		01/22/22 03:24	01/25/22 12:57	1
Perfluorobutanoic acid	4.1	U	4.1		ng/L		01/22/22 03:24	01/25/22 12:57	1
Perfluorodecanesulfonic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:57	1
Perfluoroheptanesulfonic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:57	1
Perfluorooctanesulfonamide	1.6	U *+	1.6		ng/L		01/22/22 03:24	01/25/22 12:57	1
Perfluoropentanoic acid	1.6	U	1.6		ng/L		01/22/22 03:24	01/25/22 12:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*66*		*17 - 200*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
M2-8:2 FTS	*80*		*33 - 200*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
13C4 PFBA	*91*		*42 - 165*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
13C5 PFPeA	*87*		*38 - 187*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
13C8 PFOS	*91*		*51 - 159*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
13C8 FOSA	*70*		*10 - 168*	*01/22/22 03:24*	*01/25/22 12:57*	*1*
13C3 PFHxS	*79*		*28 - 188*	*01/22/22 03:24*	*01/25/22 12:57*	*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		01/25/22 16:07	01/28/22 16:00	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
NEtFOSAA	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
NMeFOSAA	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		01/25/22 16:07	01/28/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:00*	*1*
13C2 PFDA	*101*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:00*	*1*
13C2 PFHxA	*102*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:00*	*1*

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: LTB01-220113
Date Collected: 01/13/22 00:00
Date Received: 01/14/22 10:48

Lab Sample ID: 410-69799-8
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	4.4	U	4.4		ng/L		01/22/22 03:24	01/25/22 13:08	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		01/22/22 03:24	01/25/22 13:08	1
Perfluorobutanoic acid	4.4	U	4.4		ng/L		01/22/22 03:24	01/25/22 13:08	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 13:08	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 13:08	1
Perfluorooctanesulfonamide	1.7	U *+	1.7		ng/L		01/22/22 03:24	01/25/22 13:08	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		01/22/22 03:24	01/25/22 13:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*72*		*17 - 200*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
M2-8:2 FTS	*81*		*33 - 200*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
13C4 PFBA	*88*		*42 - 165*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
13C5 PFPeA	*86*		*38 - 187*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
13C8 PFOS	*84*		*51 - 159*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
13C8 FOSA	*63*		*10 - 168*	*01/22/22 03:24*	*01/25/22 13:08*	*1*
13C3 PFHxS	*80*		*28 - 188*	*01/22/22 03:24*	*01/25/22 13:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
NEtFOSAA	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
NMeFOSAA	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		01/25/22 16:07	01/28/22 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:12*	*1*
13C2 PFDA	*104*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:12*	*1*
13C2 PFHxA	*105*		*70 - 130*	*01/25/22 16:07*	*01/28/22 16:12*	*1*

Surrogate Summary

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

Job ID: 410-69799-1
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)						
410-69799-1	GAC INFLUENT	92	122	117						
410-69799-1 - DL	GAC INFLUENT	97	103	119						
410-69799-2	GAC MIDFLUENT	93	97	100						
410-69799-3	GAC EFFLUENT	93	92	96						
410-69799-4	PV-1_25	94	93	99						
410-69799-5	PV-1_50	97	98	102						
410-69799-6	PV-1_75	95	99	102						
410-69799-7	FTB01-220113	97	101	102						
410-69799-8	LTB01-220113	102	104	105						
LCS 410-216520/2-A	Lab Control Sample	84	84	87						
LCS 410-217703/2-A	Lab Control Sample	115	105	102						
LCSD 410-216520/3-A	Lab Control Sample Dup	84	85	89						
LCSD 410-217703/3-A	Lab Control Sample Dup	93	104	106						
LLCS 410-217703/4-A	Lab Control Sample	102	100	101						
MB 410-216520/1-A	Method Blank	82	85	87						
MB 410-217703/1-A	Method Blank	96	101	102						

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: 410-69799-1
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	(17-200)	(33-200)	(42-165)	(38-187)	(51-159)	(10-168)	(28-188)
410-69799-1	GAC INFLUENT	78	107	98	99	87	67	106
410-69799-2	GAC MIDFLUENT	79	87	99	99	92	83	88
410-69799-3	GAC EFFLUENT	79	89	100	97	96	83	94
410-69799-4	PV-1_25	76	89	93	93	90	78	83
410-69799-5	PV-1_50	71	87	95	92	91	83	92
410-69799-6	PV-1_75	73	93	97	96	94	85	90
410-69799-7	FTB01-220113	66	80	91	87	91	70	79
410-69799-8	LTB01-220113	72	81	88	86	84	63	80
LCS 410-218199/2-A	Lab Control Sample	83	96	95	96	89	76	91
LCSD 410-218199/3-A	Lab Control Sample Dup	82	89	90	90	90	75	87
MB 410-216977/1-A	Method Blank	80	100	101	96	102	83	94
MB 410-218199/1-A	Method Blank	81	89	88	88	85	73	87

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

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)
LCS 410-216977/2-A	Lab Control Sample	59	72	72	72	70	57	68
LCSD 410-216977/3-A	Lab Control Sample Dup	81	91	94	91	92	71	90

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 410-216977/1-A
Matrix: Water
Analysis Batch: 217302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216977

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	5.0	U	5.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
8:2 Fluorotelomer sulfonic acid	3.0	U	3.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
Perfluorobutanoic acid	5.0	U	5.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
Perfluorodecanesulfonic acid	2.0	U	2.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
Perfluoroheptanesulfonic acid	2.0	U	2.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
Perfluorooctanesulfonamide	2.0	U	2.0		ng/L		01/22/22 03:24	01/25/22 11:18	1
Perfluoropentanoic acid	2.0	U	2.0		ng/L		01/22/22 03:24	01/25/22 11:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*80*		*17 - 200*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
M2-8:2 FTS	*100*		*33 - 200*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
13C4 PFBA	*101*		*42 - 165*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
13C5 PFPeA	*96*		*38 - 187*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
13C8 PFOS	*102*		*51 - 159*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
13C8 FOSA	*83*		*10 - 168*	*01/22/22 03:24*	*01/25/22 11:18*	*1*
13C3 PFHxS	*94*		*28 - 188*	*01/22/22 03:24*	*01/25/22 11:18*	*1*

Lab Sample ID: LCS 410-216977/2-A
Matrix: Water
Analysis Batch: 217624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2 Fluorotelomer sulfonic acid			24.3	29.5		ng/L		121	57 - 137		
8:2 Fluorotelomer sulfonic acid			24.5	24.8		ng/L		101	56 - 140		
Perfluorobutanoic acid			25.6	25.7		ng/L		100	62 - 156		
Perfluorodecanesulfonic acid			24.7	25.2		ng/L		102	61 - 134		
Perfluoroheptanesulfonic acid			24.4	24.8		ng/L		102	67 - 135		
Perfluorooctanesulfonamide			25.6	33.6	*+	ng/L		131	55 - 130		
Perfluoropentanoic acid			25.6	24.1		ng/L		94	72 - 139		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*59*		*29 - 189*
M2-8:2 FTS	*72*		*34 - 182*
13C4 PFBA	*72*		*41 - 132*
13C5 PFPeA	*72*		*33 - 155*
13C8 PFOS	*70*		*49 - 126*
13C8 FOSA	*57*		*10 - 143*
13C3 PFHxS	*68*		*32 - 145*

Lab Sample ID: LCSD 410-216977/3-A
Matrix: Water
Analysis Batch: 217624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216977

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2 Fluorotelomer sulfonic acid			24.3	31.0		ng/L		128	57 - 137	5	30
8:2 Fluorotelomer sulfonic acid			24.5	26.8		ng/L		109	56 - 140	8	30
Perfluorobutanoic acid			25.6	25.5		ng/L		100	62 - 156	1	30
Perfluorodecanesulfonic acid			24.7	24.0		ng/L		97	61 - 134	5	30
Perfluoroheptanesulfonic acid			24.4	25.6		ng/L		105	67 - 135	3	30

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

Lab Sample ID: LCSD 410-216977/3-A
Matrix: Water
Analysis Batch: 217624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216977

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonamide			25.6	33.0		ng/L		129	55 - 130	2	30
Perfluoropentanoic acid			25.6	25.8		ng/L		101	72 - 139	7	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-6:2 FTS	*81*		*29 - 189*
M2-8:2 FTS	*91*		*34 - 182*
13C4 PFBA	*94*		*41 - 132*
13C5 PFPeA	*91*		*33 - 155*
13C8 PFOS	*92*		*49 - 126*
13C8 FOSA	*71*		*10 - 143*
13C3 PFHxS	*90*		*32 - 145*

Lab Sample ID: MB 410-218199/1-A
Matrix: Water
Analysis Batch: 218343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218199

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	5.0	U	5.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
8:2 Fluorotelomer sulfonic acid	3.0	U	3.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
Perfluorobutanoic acid	5.0	U	5.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
Perfluorodecanesulfonic acid	2.0	U	2.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
Perfluoroheptanesulfonic acid	2.0	U	2.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
Perfluorooctanesulfonamide	2.0	U	2.0		ng/L		01/26/22 17:17	01/27/22 20:10	1
Perfluoropentanoic acid	2.0	U	2.0		ng/L		01/26/22 17:17	01/27/22 20:10	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*81*		*17 - 200*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
M2-8:2 FTS	*89*		*33 - 200*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
13C4 PFBA	*88*		*42 - 165*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
13C5 PFPeA	*88*		*38 - 187*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
13C8 PFOS	*85*		*51 - 159*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
13C8 FOSA	*73*		*10 - 168*	*01/26/22 17:17*	*01/27/22 20:10*	*1*
13C3 PFHxS	*87*		*28 - 188*	*01/26/22 17:17*	*01/27/22 20:10*	*1*

Lab Sample ID: LCS 410-218199/2-A
Matrix: Water
Analysis Batch: 218343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 Fluorotelomer sulfonic acid			24.3	30.7		ng/L		127	57 - 137
8:2 Fluorotelomer sulfonic acid			24.5	25.8		ng/L		105	56 - 140
Perfluorobutanoic acid			25.6	24.5		ng/L		96	62 - 156
Perfluorodecanesulfonic acid			24.7	25.0		ng/L		101	61 - 134
Perfluoroheptanesulfonic acid			24.4	24.5		ng/L		100	67 - 135
Perfluorooctanesulfonamide			25.6	32.9		ng/L		129	55 - 130
Perfluoropentanoic acid			25.6	24.3		ng/L		95	72 - 139

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*83*		*17 - 200*

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

Lab Sample ID: LCS 410-218199/2-A
Matrix: Water
Analysis Batch: 218343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218199

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*96*		*33 - 200*
13C4 PFBA	*95*		*42 - 165*
13C5 PFPeA	*96*		*38 - 187*
13C8 PFOS	*89*		*51 - 159*
13C8 FOSA	*76*		*10 - 168*
13C3 PFHxS	*91*		*28 - 188*

Lab Sample ID: LCSD 410-218199/3-A
Matrix: Water
Analysis Batch: 218343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2 Fluorotelomer sulfonic acid			24.3	30.3		ng/L		125	57 - 137	2	30
8:2 Fluorotelomer sulfonic acid			24.5	26.6		ng/L		108	56 - 140	3	30
Perfluorobutanoic acid			25.6	25.1		ng/L		98	62 - 156	2	30
Perfluorodecanesulfonic acid			24.7	23.3		ng/L		94	61 - 134	7	30
Perfluoroheptanesulfonic acid			24.4	23.9		ng/L		98	67 - 135	3	30
Perfluorooctanesulfonamide			25.6	33.8	*+	ng/L		132	55 - 130	3	30
Perfluoropentanoic acid			25.6	25.0		ng/L		98	72 - 139	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-6:2 FTS	*82*		*17 - 200*
M2-8:2 FTS	*89*		*33 - 200*
13C4 PFBA	*90*		*42 - 165*
13C5 PFPeA	*90*		*38 - 187*
13C8 PFOS	*90*		*51 - 159*
13C8 FOSA	*75*		*10 - 168*
13C3 PFHxS	*87*		*28 - 188*

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

Lab Sample ID: MB 410-216520/1-A
Matrix: Water
Analysis Batch: 217055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216520

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorononanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
NEtFOSAA	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
NMeFOSAA	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1

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

Lab Sample ID: MB 410-216520/1-A
Matrix: Water
Analysis Batch: 217055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216520

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	2.0	U	2.0		ng/L		01/20/22 17:02	01/23/22 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*82*		*70 - 130*	*01/20/22 17:02*	*01/23/22 22:19*	*1*
13C2 PFDA	*85*		*70 - 130*	*01/20/22 17:02*	*01/23/22 22:19*	*1*
13C2 PFHxA	*87*		*70 - 130*	*01/20/22 17:02*	*01/23/22 22:19*	*1*

Lab Sample ID: LCS 410-216520/2-A
Matrix: Water
Analysis Batch: 217055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	18.3		ng/L		89	70 - 130		
Perfluoroheptanoic acid			20.5	18.8		ng/L		92	70 - 130		
Perfluorooctanoic acid			20.5	18.8		ng/L		92	70 - 130		
Perfluorononanoic acid			20.5	18.3		ng/L		89	70 - 130		
Perfluorodecanoic acid			20.5	17.8		ng/L		87	70 - 130		
Perfluorotridecanoic acid			20.5	17.4		ng/L		85	70 - 130		
Perfluorotetradecanoic acid			20.5	17.8		ng/L		87	70 - 130		
Perfluorobutanesulfonic acid			18.1	16.4		ng/L		91	70 - 130		
Perfluorohexanesulfonic acid			18.7	16.8		ng/L		90	70 - 130		
Perfluorooctanesulfonic acid			19.0	16.3		ng/L		86	70 - 130		
NEtFOSAA			20.5	17.6		ng/L		86	70 - 130		
NMeFOSAA			20.5	17.4		ng/L		85	70 - 130		
Perfluoroundecanoic acid			20.5	17.8		ng/L		87	70 - 130		
Perfluorododecanoic acid			20.5	17.7		ng/L		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*84*		*70 - 130*
13C2 PFDA	*84*		*70 - 130*
13C2 PFHxA	*87*		*70 - 130*

Lab Sample ID: LCSD 410-216520/3-A
Matrix: Water
Analysis Batch: 217055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	18.3		ng/L		89	70 - 130	0	30
Perfluoroheptanoic acid			20.5	18.8		ng/L		92	70 - 130	0	30
Perfluorooctanoic acid			20.5	18.8		ng/L		92	70 - 130	0	30
Perfluorononanoic acid			20.5	18.1		ng/L		89	70 - 130	1	30
Perfluorodecanoic acid			20.5	17.7		ng/L		87	70 - 130	0	30
Perfluorotridecanoic acid			20.5	17.7		ng/L		86	70 - 130	2	30
Perfluorotetradecanoic acid			20.5	17.7		ng/L		87	70 - 130	1	30
Perfluorobutanesulfonic acid			18.1	16.4		ng/L		91	70 - 130	0	30
Perfluorohexanesulfonic acid			18.7	16.8		ng/L		90	70 - 130	0	30
Perfluorooctanesulfonic acid			19.0	16.1		ng/L		85	70 - 130	1	30
NEtFOSAA			20.5	16.8		ng/L		82	70 - 130	5	30

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

Lab Sample ID: LCSD 410-216520/3-A
Matrix: Water
Analysis Batch: 217055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NMeFOSAA			20.5	16.9		ng/L		83	70 - 130	3	30
Perfluoroundecanoic acid			20.5	17.1		ng/L		84	70 - 130	4	30
Perfluorododecanoic acid			20.5	17.9		ng/L		87	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*84*		*70 - 130*
13C2 PFDA	*85*		*70 - 130*
13C2 PFHxA	*89*		*70 - 130*

Lab Sample ID: MB 410-217703/1-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217703

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorononanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
NEtFOSAA	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
NMeFOSAA	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		01/25/22 16:07	01/28/22 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*01/25/22 16:07*	*01/28/22 15:14*	*1*
13C2 PFDA	*101*		*70 - 130*	*01/25/22 16:07*	*01/28/22 15:14*	*1*
13C2 PFHxA	*102*		*70 - 130*	*01/25/22 16:07*	*01/28/22 15:14*	*1*

Lab Sample ID: LCS 410-217703/2-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217703

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid			20.5	19.8		ng/L		97	70 - 130
Perfluoroheptanoic acid			20.5	20.5		ng/L		100	70 - 130
Perfluorooctanoic acid			20.5	20.2		ng/L		99	70 - 130
Perfluorononanoic acid			20.5	20.9		ng/L		102	70 - 130
Perfluorodecanoic acid			20.5	20.1		ng/L		98	70 - 130
Perfluorotridecanoic acid			20.5	20.2		ng/L		98	70 - 130
Perfluorotetradecanoic acid			20.5	19.8		ng/L		97	70 - 130
Perfluorobutanesulfonic acid			18.1	18.4		ng/L		102	70 - 130
Perfluorohexanesulfonic acid			18.7	18.6		ng/L		100	70 - 130

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

Lab Sample ID: LCS 410-217703/2-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid	19.0	18.7		ng/L		98	70 - 130
NEtFOSAA	20.5	21.9		ng/L		107	70 - 130
NMeFOSAA	20.5	21.3		ng/L		104	70 - 130
Perfluoroundecanoic acid	20.5	19.5		ng/L		95	70 - 130
Perfluorododecanoic acid	20.5	20.6		ng/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*115*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*102*		*70 - 130*

Lab Sample ID: LCSD 410-217703/3-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	20.5	20.8		ng/L		102	70 - 130	5	30
Perfluoroheptanoic acid	20.5	20.7		ng/L		101	70 - 130	1	30
Perfluorooctanoic acid	20.5	21.3		ng/L		104	70 - 130	5	30
Perfluorononanoic acid	20.5	19.6		ng/L		96	70 - 130	7	30
Perfluorodecanoic acid	20.5	20.8		ng/L		101	70 - 130	3	30
Perfluorotridecanoic acid	20.5	20.0		ng/L		97	70 - 130	1	30
Perfluorotetradecanoic acid	20.5	19.3		ng/L		94	70 - 130	2	30
Perfluorobutanesulfonic acid	18.1	17.6		ng/L		97	70 - 130	4	30
Perfluorohexanesulfonic acid	18.7	18.4		ng/L		98	70 - 130	2	30
Perfluorooctanesulfonic acid	19.0	18.0		ng/L		95	70 - 130	4	30
NEtFOSAA	20.5	19.3		ng/L		94	70 - 130	12	30
NMeFOSAA	20.5	18.8		ng/L		92	70 - 130	12	30
Perfluoroundecanoic acid	20.5	20.3		ng/L		99	70 - 130	4	30
Perfluorododecanoic acid	20.5	19.6		ng/L		96	70 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*93*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*
13C2 PFHxA	*106*		*70 - 130*

Lab Sample ID: LLCS 410-217703/4-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217703

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	1.92	1.73	J	ng/L		90	50 - 150
Perfluoroheptanoic acid	1.92	1.73	J	ng/L		90	50 - 150
Perfluorooctanoic acid	1.92	1.89	J	ng/L		98	50 - 150
Perfluorononanoic acid	1.92	1.59	J	ng/L		83	50 - 150
Perfluorodecanoic acid	1.92	1.61	J	ng/L		84	50 - 150
Perfluorotridecanoic acid	1.92	1.55	J	ng/L		81	50 - 150
Perfluorotetradecanoic acid	1.92	1.61	J	ng/L		84	50 - 150

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

Lab Sample ID: LLCS 410-217703/4-A
Matrix: Water
Analysis Batch: 218953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217703

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorobutanesulfonic acid			1.70	1.51	J	ng/L		89	50 - 150		
Perfluorohexanesulfonic acid			1.75	1.53	J	ng/L		87	50 - 150		
Perfluorooctanesulfonic acid			1.78	1.70	J	ng/L		95	50 - 150		
NEtFOSAA			1.92	1.63	J	ng/L		85	50 - 150		
NMeFOSAA			1.92	1.67	J	ng/L		87	50 - 150		
Perfluoroundecanoic acid			1.92	1.58	J	ng/L		83	50 - 150		
Perfluorododecanoic acid			1.92	1.63	J	ng/L		85	50 - 150		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

LCMS

Prep Batch: 216520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-1 - DL	GAC INFLUENT	Total/NA	Water	537 DW	
410-69799-1	GAC INFLUENT	Total/NA	Water	537 DW	
410-69799-2	GAC MIDFLUENT	Total/NA	Water	537 DW	
410-69799-3	GAC EFFLUENT	Total/NA	Water	537 DW	
410-69799-4	PV-1_25	Total/NA	Water	537 DW	
410-69799-5	PV-1_50	Total/NA	Water	537 DW	
410-69799-6	PV-1_75	Total/NA	Water	537 DW	
MB 410-216520/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-216520/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-216520/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Prep Batch: 216977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-2	GAC MIDFLUENT	Total/NA	Water	537 (Mod)	
410-69799-3	GAC EFFLUENT	Total/NA	Water	537 (Mod)	
410-69799-4	PV-1_25	Total/NA	Water	537 (Mod)	
410-69799-5	PV-1_50	Total/NA	Water	537 (Mod)	
410-69799-6	PV-1_75	Total/NA	Water	537 (Mod)	
410-69799-7	FTB01-220113	Total/NA	Water	537 (Mod)	
410-69799-8	LTB01-220113	Total/NA	Water	537 (Mod)	
MB 410-216977/1-A	Method Blank	Total/NA	Water	537 (Mod)	
LCS 410-216977/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	
LCSD 410-216977/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	

Analysis Batch: 217055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-1	GAC INFLUENT	Total/NA	Water	537 DW	216520
410-69799-2	GAC MIDFLUENT	Total/NA	Water	537 DW	216520
410-69799-3	GAC EFFLUENT	Total/NA	Water	537 DW	216520
410-69799-4	PV-1_25	Total/NA	Water	537 DW	216520
410-69799-5	PV-1_50	Total/NA	Water	537 DW	216520
410-69799-6	PV-1_75	Total/NA	Water	537 DW	216520
MB 410-216520/1-A	Method Blank	Total/NA	Water	537 DW	216520
LCS 410-216520/2-A	Lab Control Sample	Total/NA	Water	537 DW	216520
LCSD 410-216520/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	216520

Analysis Batch: 217300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-1 - DL	GAC INFLUENT	Total/NA	Water	537 DW	216520

Analysis Batch: 217302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-2	GAC MIDFLUENT	Total/NA	Water	537 (Mod)	216977
410-69799-3	GAC EFFLUENT	Total/NA	Water	537 (Mod)	216977
410-69799-4	PV-1_25	Total/NA	Water	537 (Mod)	216977
410-69799-5	PV-1_50	Total/NA	Water	537 (Mod)	216977
410-69799-6	PV-1_75	Total/NA	Water	537 (Mod)	216977
410-69799-7	FTB01-220113	Total/NA	Water	537 (Mod)	216977
410-69799-8	LTB01-220113	Total/NA	Water	537 (Mod)	216977
MB 410-216977/1-A	Method Blank	Total/NA	Water	537 (Mod)	216977

LCMS

Analysis Batch: 217624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-216977/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	216977
LCSD 410-216977/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	216977

Prep Batch: 217703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-7	FTB01-220113	Total/NA	Water	537 DW	
410-69799-8	LTB01-220113	Total/NA	Water	537 DW	
MB 410-217703/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-217703/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-217703/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	
LLCS 410-217703/4-A	Lab Control Sample	Total/NA	Water	537 DW	

Prep Batch: 218199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-1	GAC INFLUENT	Total/NA	Water	537 (Mod)	
MB 410-218199/1-A	Method Blank	Total/NA	Water	537 (Mod)	
LCS 410-218199/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	
LCSD 410-218199/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	

Analysis Batch: 218343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-1	GAC INFLUENT	Total/NA	Water	537 (Mod)	218199
MB 410-218199/1-A	Method Blank	Total/NA	Water	537 (Mod)	218199
LCS 410-218199/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	218199
LCSD 410-218199/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	218199

Analysis Batch: 218953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-69799-7	FTB01-220113	Total/NA	Water	537 DW	217703
410-69799-8	LTB01-220113	Total/NA	Water	537 DW	217703
MB 410-217703/1-A	Method Blank	Total/NA	Water	537 DW	217703
LCS 410-217703/2-A	Lab Control Sample	Total/NA	Water	537 DW	217703
LCSD 410-217703/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	217703
LLCS 410-217703/4-A	Lab Control Sample	Total/NA	Water	537 DW	217703

Lab Chronicle

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: GAC INFLUENT
Lab Sample ID: 410-69799-1

Date Collected: 01/13/22 09:30
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			218199	01/26/22 17:17	QLP7	ELLE
Total/NA	Analysis	537 (Mod)		1	218343	01/27/22 20:54	ZG8V	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/23/22 23:52	VK3G	ELLE
Total/NA	Prep	537 DW	DL		216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW	DL	10	217300	01/24/22 15:31	PY4D	ELLE

Client Sample ID: GAC MIDFLUENT
Lab Sample ID: 410-69799-2

Date Collected: 01/13/22 09:35
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:02	UUV6	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/24/22 00:03	VK3G	ELLE

Client Sample ID: GAC EFFLUENT
Lab Sample ID: 410-69799-3

Date Collected: 01/13/22 09:40
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:13	UUV6	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/24/22 00:15	VK3G	ELLE

Client Sample ID: PV-1_25
Lab Sample ID: 410-69799-4

Date Collected: 01/13/22 09:45
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:24	UUV6	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/24/22 00:26	VK3G	ELLE

Client Sample ID: PV-1_50
Lab Sample ID: 410-69799-5

Date Collected: 01/13/22 09:50
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:35	UUV6	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/24/22 00:38	VK3G	ELLE

Lab Chronicle

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

Job ID: 410-69799-1
SDG: HOO

Client Sample ID: PV-1_75

Lab Sample ID: 410-69799-6

Date Collected: 01/13/22 09:55
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:46	UUV6	ELLE
Total/NA	Prep	537 DW			216520	01/20/22 17:02	GU2F	ELLE
Total/NA	Analysis	537 DW		1	217055	01/24/22 00:50	VK3G	ELLE

Client Sample ID: FTB01-220113

Lab Sample ID: 410-69799-7

Date Collected: 01/13/22 10:00
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 12:57	UUV6	ELLE
Total/NA	Prep	537 DW			217703	01/25/22 16:07	QLP7	ELLE
Total/NA	Analysis	537 DW		1	218953	01/28/22 16:00	DCS9	ELLE

Client Sample ID: LTB01-220113

Lab Sample ID: 410-69799-8

Date Collected: 01/13/22 00:00
Matrix: Water
Date Received: 01/14/22 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			216977	01/22/22 03:24	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	217302	01/25/22 13:08	UUV6	ELLE
Total/NA	Prep	537 DW			217703	01/25/22 16:07	QLP7	ELLE
Total/NA	Analysis	537 DW		1	218953	01/28/22 16:12	DCS9	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: 410-69799-1
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: 410-69799-1
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: 410-69799-1
SDG: HOO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-69799-1	GAC INFLUENT	Water	01/13/22 09:30	01/14/22 10:48
410-69799-2	GAC MIDFLUENT	Water	01/13/22 09:35	01/14/22 10:48
410-69799-3	GAC EFFLUENT	Water	01/13/22 09:40	01/14/22 10:48
410-69799-4	PV-1_25	Water	01/13/22 09:45	01/14/22 10:48
410-69799-5	PV-1_50	Water	01/13/22 09:50	01/14/22 10:48
410-69799-6	PV-1_75	Water	01/13/22 09:55	01/14/22 10:48
410-69799-7	FTB01-220113	Water	01/13/22 10:00	01/14/22 10:48
410-69799-8	LTB01-220113	Water	01/13/22 00:00	01/14/22 10:48

Chain of Custody Record

eurofins Environment Testing America

410-69799 Chain of Custody

Client Contact: Jonathan Dippert, Kirk Moline	Sampler: C. Ormsby	Lab PM: Coplan, Dorothy	Carrier Tracking No(s):	COC No: 410-13086-232.2
	Phone:	E-Mail: Dorothy.Coplan@eurofinset.com	State of Origin: NY	Page: Page 1 of 1
Company: CT Male Associates DPC	PWSID:	Analysis Requested		Job #:
Address: 50 Century Hill Dr	Due Date Requested:			Preservation Codes:
City: Latham	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - Trizma, Other:
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 14 4756			
Email: j dippert@ctmale.com, K.Moline@Ctmale.com	WO #:			
Project Name: Hoosick Falls WTP	Project #: 41000511			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - (MOD) 7 PFAS Compounds	537_DW - 14 PFAS Drinking Water List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	Z		
GAC INFLUENT	1/13/22	0930	G	Water			X	X	4	PFAS QC Batch collected here
GAC MIDFLUENT		0935		Water			X	X	4	
GAC EFFLUENT		0940		Water			X	X	4	
PV-1_25		0945		Water			X	X	4	
PV-1_50		0950		Water			X	X	4	
PV-1_75		0955		Water			X	X	4	
FTB01-220113		1000		Water			X	X	4	
LTB01-220113		—		Water			X	X	4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	1/13/22 1240	CTM			
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	1/14/22 1040	DVM

Custody Seals Intact: X Yes Δ No | Custody Seal No.: 128764 | Cooler Temperature(s) °C and Other Remarks: 0.9°C

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-69799-1
SDG Number: HOO

Login Number: 69799
List Number: 1
Creator: Renner, Melissa

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	