eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jonathan Dippert
CT Male Associates DPC
50 Century Hill Dr
Latham, New York 12110

Generated 3/22/2024 10:03:14 AM

JOB DESCRIPTION

Hoosick Falls WTP
HOO

JOB NUMBER

410-163269-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
3/22/2024 10:03:14 AM

Authorized for release by
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Compliance Statement

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

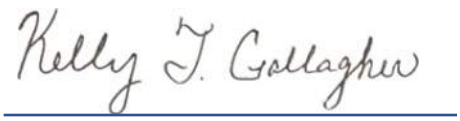

Table of Contents

Definitions/Glossary

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

Job ID: 410-163269-1
SDG: HOO

Qualifiers

LCMS

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
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
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: 410-163269-1 Eurofins Lancaster Laboratories Environment

Job Narrative
410-163269-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt
The samples were received on 3/8/2024 9:40 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
Method 537.1_DW: The following sample was found to contain residual chlorine: GAC Influent (410-163269-1).

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: 410-163269-1
SDG: HOO

Client Sample ID: GAC Influent — Lab Sample ID: 410-163269-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	4.2		1.8		ng/L	1		537 (Mod)	Total/NA
Perfluorooctanesulfonamide	2.5		1.8		ng/L	1		537 (Mod)	Total/NA
Perfluoropentanoic acid	2.8		1.8		ng/L	1		537 (Mod)	Total/NA
Perfluoroheptanoic acid	10	cn	1.8		ng/L	1		EPA 537.1	Total/NA
Perfluorohexanoic acid	9.3	cn	1.8		ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	3.4	cn	1.8		ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid - DL	350	cn	18		ng/L	10		EPA 537.1	Total/NA

Client Sample ID: GAC Midfluent — Lab Sample ID: 410-163269-2

No Detections.

Client Sample ID: GAC Effluent — Lab Sample ID: 410-163269-3

No Detections.

Client Sample ID: FTB01-240307 — Lab Sample ID: 410-163269-4

No Detections.

Client Sample ID: LTB01-240307 — Lab Sample ID: 410-163269-5

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: GAC Influent
Date Collected: 03/07/24 09:10
Date Received: 03/08/24 09:40

Lab Sample ID: 410-163269-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
8:2 Fluorotelomer sulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
Perfluorobutanoic acid	**4.2**		1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
Perfluorodecanesulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
Perfluoroheptanesulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
Perfluorooctanesulfonamide	**2.5**		1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1
Perfluoropentanoic acid	**2.8**		1.8		ng/L		03/14/24 15:53	03/15/24 16:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*90*		*40 - 200*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
M2-8:2 FTS	*95*		*37 - 200*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
13C4 PFBA	*76*		*22 - 174*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
13C5 PFPeA	*76*		*33 - 196*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
13C8 PFOS	*84*		*59 - 155*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
13C8 FOSA	*81*		*10 - 155*	*03/14/24 15:53*	*03/15/24 16:15*	*1*
13C3 PFHxS	*89*		*48 - 169*	*03/14/24 15:53*	*03/15/24 16:15*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
NMeFOSAA	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorobutanesulfonic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorodecanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorododecanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluoroheptanoic acid	**10**	**cn**	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorohexanesulfonic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorohexanoic acid	**9.3**	**cn**	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorononanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorooctanesulfonic acid	**3.4**	**cn**	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorotetradecanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluorotridecanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1
Perfluoroundecanoic acid	1.8	U cn	1.8		ng/L		03/18/24 14:52	03/21/24 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*115*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:16*	*1*
13C2 PFHxA	*111*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:16*	*1*
d5-NEtFOSAA	*97*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:16*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**350**	**cn**	18		ng/L		03/18/24 14:52	03/21/24 21:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*107*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:28*	*10*
13C2 PFHxA	*91*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:28*	*10*
d5-NEtFOSAA	*89*	*cn*	*70 - 130*	*03/18/24 14:52*	*03/21/24 21:28*	*10*

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: GAC Midfluent
Date Collected: 03/07/24 09:15
Date Received: 03/08/24 09:40

Lab Sample ID: 410-163269-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
8:2 Fluorotelomer sulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
Perfluorobutanoic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
Perfluorodecanesulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
Perfluoroheptanesulfonic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
Perfluorooctanesulfonamide	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1
Perfluoropentanoic acid	1.8	U	1.8		ng/L		03/14/24 15:53	03/15/24 16:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*85*		*40 - 200*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
M2-8:2 FTS	*86*		*37 - 200*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
13C4 PFBA	*63*		*22 - 174*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
13C5 PFPeA	*58*		*33 - 196*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
13C8 PFOS	*78*		*59 - 155*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
13C8 FOSA	*72*		*10 - 155*	*03/14/24 15:53*	*03/15/24 16:29*	*1*
13C3 PFHxS	*81*		*48 - 169*	*03/14/24 15:53*	*03/15/24 16:29*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
NMeFOSAA	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorohexanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*117*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:12*	*1*
13C2 PFHxA	*113*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:12*	*1*
d5-NEtFOSAA	*100*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:12*	*1*

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: GAC Effluent

Date Collected: 03/07/24 09:20
Date Received: 03/08/24 09:40

Lab Sample ID: 410-163269-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
8:2 Fluorotelomer sulfonic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
Perfluorobutanoic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
Perfluorooctanesulfonamide	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		03/14/24 15:53	03/15/24 16:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*85*		*40 - 200*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
M2-8:2 FTS	*84*		*37 - 200*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
13C4 PFBA	*71*		*22 - 174*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
13C5 PFPeA	*66*		*33 - 196*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
13C8 PFOS	*79*		*59 - 155*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
13C8 FOSA	*81*		*10 - 155*	*03/14/24 15:53*	*03/15/24 16:42*	*1*
13C3 PFHxS	*79*		*48 - 169*	*03/14/24 15:53*	*03/15/24 16:42*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
NMeFOSAA	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorohexanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		03/11/24 14:53	03/13/24 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*118*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:23*	*1*
13C2 PFHxA	*116*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:23*	*1*
d5-NEtFOSAA	*106*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:23*	*1*

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: FTB01-240307
Date Collected: 03/07/24 09:25
Date Received: 03/08/24 09:40

Lab Sample ID: 410-163269-4
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
8:2 Fluorotelomer sulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
Perfluorobutanoic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
Perfluorodecanesulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
Perfluoroheptanesulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
Perfluorooctanesulfonamide	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1
Perfluoropentanoic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 16:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*87*		*40 - 200*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
M2-8:2 FTS	*82*		*37 - 200*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
13C4 PFBA	*73*		*22 - 174*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
13C5 PFPeA	*67*		*33 - 196*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
13C8 PFOS	*76*		*59 - 155*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
13C8 FOSA	*78*		*10 - 155*	*03/14/24 15:53*	*03/15/24 16:56*	*1*
13C3 PFHxS	*77*		*48 - 169*	*03/14/24 15:53*	*03/15/24 16:56*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
NMeFOSAA	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorohexanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		03/11/24 14:53	03/13/24 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*118*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:35*	*1*
13C2 PFHxA	*114*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:35*	*1*
d5-NEtFOSAA	*112*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:35*	*1*

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: LTB01-240307
Date Collected: 03/07/24 00:00
Date Received: 03/08/24 09:40

Lab Sample ID: 410-163269-5
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
8:2 Fluorotelomer sulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
Perfluorobutanoic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
Perfluorodecanesulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
Perfluoroheptanesulfonic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
Perfluorooctanesulfonamide	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1
Perfluoropentanoic acid	1.9	U	1.9		ng/L		03/14/24 15:53	03/15/24 17:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*78*		*40 - 200*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
M2-8:2 FTS	*74*		*37 - 200*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
13C4 PFBA	*64*		*22 - 174*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
13C5 PFPeA	*58*		*33 - 196*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
13C8 PFOS	*67*		*59 - 155*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
13C8 FOSA	*66*		*10 - 155*	*03/14/24 15:53*	*03/15/24 17:09*	*1*
13C3 PFHxS	*70*		*48 - 169*	*03/14/24 15:53*	*03/15/24 17:09*	*1*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
NMeFOSAA	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorobutanesulfonic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorodecanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorododecanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluoroheptanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorohexanesulfonic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorohexanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorononanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorooctanesulfonic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorooctanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorotetradecanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluorotridecanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1
Perfluoroundecanoic acid	1.9	U	1.9		ng/L		03/11/24 14:53	03/13/24 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*120*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:58*	*1*
13C2 PFHxA	*111*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:58*	*1*
d5-NEtFOSAA	*107*		*70 - 130*	*03/11/24 14:53*	*03/13/24 05:58*	*1*

Surrogate Summary

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

Job ID: 410-163269-1
SDG: HOO

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

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

		Percent Surrogate Recovery (Acceptance Limits)								
		PFDA	PFHxA	d5NEFOS						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
410-163269-1	GAC Influent	115 cn	111 cn	97 cn						
410-163269-1 - DL	GAC Influent	107 cn	91 cn	89 cn						
410-163269-2	GAC Midfluent	117	113	100						
410-163269-3	GAC Effluent	118	116	106						
410-163269-4	FTB01-240307	118	114	112						
410-163269-5	LTB01-240307	120	111	107						
LCS 410-482029/3-A	Lab Control Sample	113	115	104						
LCS 410-484419/2-A	Lab Control Sample	99	96	99						
LCSD 410-482029/4-A	Lab Control Sample Dup	108	113	102						
MB 410-482029/1-A	Method Blank	112	111	100						
MB 410-484419/1-A	Method Blank	104	104	96						

Surrogate Legend

PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA
d5NEFOS = d5-NEtFOSAA

Isotope Dilution Summary

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

Job ID: 410-163269-1
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	(40-200)	(37-200)	(22-174)	(33-196)	(59-155)	(10-155)	(48-169)
410-163269-1	GAC Influent	90	95	76	76	84	81	89
410-163269-2	GAC Midfluent	85	86	63	58	78	72	81
410-163269-3	GAC Effluent	85	84	71	66	79	81	79
410-163269-4	FTB01-240307	87	82	73	67	76	78	77
410-163269-5	LTB01-240307	78	74	64	58	67	66	70
LCS 410-483452/2-A	Lab Control Sample	126	114	87	90	100	82	91
LCSD 410-483452/3-A	Lab Control Sample Dup	95	84	73	66	79	78	81
MB 410-483452/1-A	Method Blank	71	72	57	57	67	62	64

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 410-483452/1-A
Matrix: Water
Analysis Batch: 483860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 483452

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
8:2 Fluorotelomer sulfonic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
Perfluorobutanoic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
Perfluorodecanesulfonic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
Perfluoroheptanesulfonic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
Perfluorooctanesulfonamide	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1
Perfluoropentanoic acid	2.0	U	2.0		ng/L		03/14/24 15:53	03/15/24 15:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*71*		*40 - 200*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
M2-8:2 FTS	*72*		*37 - 200*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
13C4 PFBA	*57*		*22 - 174*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
13C5 PFPeA	*57*		*33 - 196*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
13C8 PFOS	*67*		*59 - 155*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
13C8 FOSA	*62*		*10 - 155*	*03/14/24 15:53*	*03/15/24 15:21*	*1*
13C3 PFHxS	*64*		*48 - 169*	*03/14/24 15:53*	*03/15/24 15:21*	*1*

Lab Sample ID: LCS 410-483452/2-A
Matrix: Water
Analysis Batch: 484033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 483452

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
6:2 Fluorotelomer sulfonic acid			24.3	24.4		ng/L		100	61 - 132		
8:2 Fluorotelomer sulfonic acid			24.5	24.1		ng/L		98	55 - 134		
Perfluorobutanoic acid			25.6	29.1		ng/L		114	58 - 130		
Perfluorodecanesulfonic acid			24.7	25.6		ng/L		104	55 - 130		
Perfluoroheptanesulfonic acid			24.4	27.9		ng/L		115	59 - 130		
Perfluorooctanesulfonamide			25.6	29.6		ng/L		115	67 - 132		
Perfluoropentanoic acid			25.6	27.2		ng/L		106	60 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*126*		*40 - 200*
M2-8:2 FTS	*114*		*37 - 200*
13C4 PFBA	*87*		*22 - 174*
13C5 PFPeA	*90*		*33 - 196*
13C8 PFOS	*100*		*59 - 155*
13C8 FOSA	*82*		*10 - 155*
13C3 PFHxS	*91*		*48 - 169*

Lab Sample ID: LCSD 410-483452/3-A
Matrix: Water
Analysis Batch: 483860

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 483452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
6:2 Fluorotelomer sulfonic acid			24.3	23.0		ng/L		95	61 - 132	6	30
8:2 Fluorotelomer sulfonic acid			24.5	24.8		ng/L		101	55 - 134	3	30
Perfluorobutanoic acid			25.6	28.6		ng/L		112	58 - 130	2	30
Perfluorodecanesulfonic acid			24.7	25.4		ng/L		103	55 - 130	1	30
Perfluoroheptanesulfonic acid			24.4	26.9		ng/L		111	59 - 130	4	30

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

Lab Sample ID: LCSD 410-483452/3-A
Matrix: Water
Analysis Batch: 483860

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 483452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonamide			25.6	29.8		ng/L		116	67 - 132	1	30
Perfluoropentanoic acid			25.6	29.8		ng/L		116	60 - 130	9	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-6:2 FTS	*95*		*40 - 200*
M2-8:2 FTS	*84*		*37 - 200*
13C4 PFBA	*73*		*22 - 174*
13C5 PFPeA	*66*		*33 - 196*
13C8 PFOS	*79*		*59 - 155*
13C8 FOSA	*78*		*10 - 155*
13C3 PFHxS	*81*		*48 - 169*

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Lab Sample ID: MB 410-482029/1-A
Matrix: Water
Analysis Batch: 482568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482029

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
NMeFOSAA	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorohexanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorononanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		03/11/24 14:53	03/13/24 02:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*112*		*70 - 130*	*03/11/24 14:53*	*03/13/24 02:53*	*1*
13C2 PFHxA	*111*		*70 - 130*	*03/11/24 14:53*	*03/13/24 02:53*	*1*
d5-NEtFOSAA	*100*		*70 - 130*	*03/11/24 14:53*	*03/13/24 02:53*	*1*

Lab Sample ID: LCS 410-482029/3-A
Matrix: Water
Analysis Batch: 482568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
NEtFOSAA			20.5	19.8		ng/L		97	70 - 130		
NMeFOSAA			20.5	19.6		ng/L		96	70 - 130		
Perfluorobutanesulfonic acid			18.1	17.2		ng/L		95	70 - 130		
Perfluorodecanoic acid			20.5	21.4		ng/L		104	70 - 130		
Perfluorododecanoic acid			20.5	20.5		ng/L		100	70 - 130		

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCS 410-482029/3-A
Matrix: Water
Analysis Batch: 482568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoroheptanoic acid			20.5	23.4		ng/L		114	70 - 130		
Perfluorohexanesulfonic acid			18.7	20.3		ng/L		109	70 - 130		
Perfluorohexanoic acid			20.5	22.3		ng/L		109	70 - 130		
Perfluorononanoic acid			20.5	21.9		ng/L		107	70 - 130		
Perfluorooctanesulfonic acid			19.0	19.1		ng/L		101	70 - 130		
Perfluorooctanoic acid			20.5	21.9		ng/L		107	70 - 130		
Perfluorotetradecanoic acid			20.5	24.6		ng/L		120	70 - 130		
Perfluorotridecanoic acid			20.5	20.4		ng/L		100	70 - 130		
Perfluoroundecanoic acid			20.5	21.8		ng/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFDA	*113*		*70 - 130*
13C2 PFHxA	*115*		*70 - 130*
d5-NEtFOSAA	*104*		*70 - 130*

Lab Sample ID: LCSD 410-482029/4-A
Matrix: Water
Analysis Batch: 482568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 482029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA			20.5	20.5		ng/L		100	70 - 130	3	30
NMeFOSAA			20.5	19.6		ng/L		96	70 - 130	0	30
Perfluorobutanesulfonic acid			18.1	17.4		ng/L		96	70 - 130	1	30
Perfluorodecanoic acid			20.5	21.5		ng/L		105	70 - 130	1	30
Perfluorododecanoic acid			20.5	20.6		ng/L		100	70 - 130	0	30
Perfluoroheptanoic acid			20.5	23.8		ng/L		116	70 - 130	2	30
Perfluorohexanesulfonic acid			18.7	20.5		ng/L		110	70 - 130	1	30
Perfluorohexanoic acid			20.5	22.9		ng/L		112	70 - 130	3	30
Perfluorononanoic acid			20.5	22.9		ng/L		112	70 - 130	5	30
Perfluorooctanesulfonic acid			19.0	19.2		ng/L		102	70 - 130	1	30
Perfluorooctanoic acid			20.5	22.4		ng/L		109	70 - 130	2	30
Perfluorotetradecanoic acid			20.5	24.4		ng/L		119	70 - 130	1	30
Perfluorotridecanoic acid			20.5	20.9		ng/L		102	70 - 130	2	30
Perfluoroundecanoic acid			20.5	21.5		ng/L		105	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C2 PFDA	*108*		*70 - 130*
13C2 PFHxA	*113*		*70 - 130*
d5-NEtFOSAA	*102*		*70 - 130*

Lab Sample ID: MB 410-484419/1-A
Matrix: Water
Analysis Batch: 485806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484419

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
NMeFOSAA	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: MB 410-484419/1-A
Matrix: Water
Analysis Batch: 485806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484419

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorohexanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorononanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		03/18/24 14:52	03/21/24 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*104*		*70 - 130*	*03/18/24 14:52*	*03/21/24 19:43*	*1*
13C2 PFHxA	*104*		*70 - 130*	*03/18/24 14:52*	*03/21/24 19:43*	*1*
d5-NEtFOSAA	*96*		*70 - 130*	*03/18/24 14:52*	*03/21/24 19:43*	*1*

Lab Sample ID: LCS 410-484419/2-A
Matrix: Water
Analysis Batch: 485806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
NEtFOSAA			20.5	19.2		ng/L		94	70 - 130		
NMeFOSAA			20.5	18.3		ng/L		89	70 - 130		
Perfluorobutanesulfonic acid			18.1	17.5		ng/L		96	70 - 130		
Perfluorodecanoic acid			20.5	18.5		ng/L		90	70 - 130		
Perfluorododecanoic acid			20.5	17.6		ng/L		86	70 - 130		
Perfluoroheptanoic acid			20.5	18.6		ng/L		91	70 - 130		
Perfluorohexanesulfonic acid			18.7	17.7		ng/L		95	70 - 130		
Perfluorohexanoic acid			20.5	19.1		ng/L		93	70 - 130		
Perfluorononanoic acid			20.5	19.5		ng/L		95	70 - 130		
Perfluorooctanesulfonic acid			19.0	18.2		ng/L		96	70 - 130		
Perfluorooctanoic acid			20.5	19.2		ng/L		94	70 - 130		
Perfluorotetradecanoic acid			20.5	19.8		ng/L		97	70 - 130		
Perfluorotridecanoic acid			20.5	16.9		ng/L		82	70 - 130		
Perfluoroundecanoic acid			20.5	19.8		ng/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C2 PFDA	*99*		*70 - 130*
13C2 PFHxA	*96*		*70 - 130*
d5-NEtFOSAA	*99*		*70 - 130*

LCMS

Prep Batch: 482029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-2	GAC Midfluent	Total/NA	Water	537.1 DW Prep	
410-163269-3	GAC Effluent	Total/NA	Water	537.1 DW Prep	
410-163269-4	FTB01-240307	Total/NA	Water	537.1 DW Prep	
410-163269-5	LTB01-240307	Total/NA	Water	537.1 DW Prep	
MB 410-482029/1-A	Method Blank	Total/NA	Water	537.1 DW Prep	
LCS 410-482029/3-A	Lab Control Sample	Total/NA	Water	537.1 DW Prep	
LCSD 410-482029/4-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW Prep	

Analysis Batch: 482568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-2	GAC Midfluent	Total/NA	Water	EPA 537.1	482029
410-163269-3	GAC Effluent	Total/NA	Water	EPA 537.1	482029
410-163269-4	FTB01-240307	Total/NA	Water	EPA 537.1	482029
410-163269-5	LTB01-240307	Total/NA	Water	EPA 537.1	482029
MB 410-482029/1-A	Method Blank	Total/NA	Water	EPA 537.1	482029
LCS 410-482029/3-A	Lab Control Sample	Total/NA	Water	EPA 537.1	482029
LCSD 410-482029/4-A	Lab Control Sample Dup	Total/NA	Water	EPA 537.1	482029

Prep Batch: 483452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-1	GAC Influent	Total/NA	Water	SPE	
410-163269-2	GAC Midfluent	Total/NA	Water	SPE	
410-163269-3	GAC Effluent	Total/NA	Water	SPE	
410-163269-4	FTB01-240307	Total/NA	Water	SPE	
410-163269-5	LTB01-240307	Total/NA	Water	SPE	
MB 410-483452/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-483452/2-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-483452/3-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 483860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-1	GAC Influent	Total/NA	Water	537 (Mod)	483452
410-163269-2	GAC Midfluent	Total/NA	Water	537 (Mod)	483452
410-163269-3	GAC Effluent	Total/NA	Water	537 (Mod)	483452
410-163269-4	FTB01-240307	Total/NA	Water	537 (Mod)	483452
410-163269-5	LTB01-240307	Total/NA	Water	537 (Mod)	483452
MB 410-483452/1-A	Method Blank	Total/NA	Water	537 (Mod)	483452
LCSD 410-483452/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	483452

Analysis Batch: 484033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-483452/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	483452

Prep Batch: 484419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-1	GAC Influent	Total/NA	Water	537.1 DW Prep	
410-163269-1 - DL	GAC Influent	Total/NA	Water	537.1 DW Prep	
MB 410-484419/1-A	Method Blank	Total/NA	Water	537.1 DW Prep	
LCS 410-484419/2-A	Lab Control Sample	Total/NA	Water	537.1 DW Prep	

QC Association Summary

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

Job ID: 410-163269-1
SDG: HOO

LCMS

Analysis Batch: 485806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-163269-1	GAC Influent	Total/NA	Water	EPA 537.1	484419
410-163269-1 - DL	GAC Influent	Total/NA	Water	EPA 537.1	484419
MB 410-484419/1-A	Method Blank	Total/NA	Water	EPA 537.1	484419
LCS 410-484419/2-A	Lab Control Sample	Total/NA	Water	EPA 537.1	484419

Lab Chronicle

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

Job ID: 410-163269-1
SDG: HOO

Client Sample ID: GAC Influent
Lab Sample ID: 410-163269-1
Date Collected: 03/07/24 09:10
Matrix: Water
Date Received: 03/08/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			483452	D5VP	ELLE	03/14/24 15:53
Total/NA	Analysis	537 (Mod)		1	483860	V4RH	ELLE	03/15/24 16:15
Total/NA	Prep	537.1 DW Prep			484419	HQ8B	ELLE	03/18/24 14:52
Total/NA	Analysis	EPA 537.1		1	485806	WR4P	ELLE	03/21/24 21:16
Total/NA	Prep	537.1 DW Prep	DL		484419	HQ8B	ELLE	03/18/24 14:52
Total/NA	Analysis	EPA 537.1	DL	10	485806	WR4P	ELLE	03/21/24 21:28

Client Sample ID: GAC Midfluent
Lab Sample ID: 410-163269-2
Date Collected: 03/07/24 09:15
Matrix: Water
Date Received: 03/08/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			483452	D5VP	ELLE	03/14/24 15:53
Total/NA	Analysis	537 (Mod)		1	483860	V4RH	ELLE	03/15/24 16:29
Total/NA	Prep	537.1 DW Prep			482029	HQ8B	ELLE	03/11/24 14:53
Total/NA	Analysis	EPA 537.1		1	482568	DCS9	ELLE	03/13/24 05:12

Client Sample ID: GAC Effluent
Lab Sample ID: 410-163269-3
Date Collected: 03/07/24 09:20
Matrix: Water
Date Received: 03/08/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			483452	D5VP	ELLE	03/14/24 15:53
Total/NA	Analysis	537 (Mod)		1	483860	V4RH	ELLE	03/15/24 16:42
Total/NA	Prep	537.1 DW Prep			482029	HQ8B	ELLE	03/11/24 14:53
Total/NA	Analysis	EPA 537.1		1	482568	DCS9	ELLE	03/13/24 05:23

Client Sample ID: FTB01-240307
Lab Sample ID: 410-163269-4
Date Collected: 03/07/24 09:25
Matrix: Water
Date Received: 03/08/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			483452	D5VP	ELLE	03/14/24 15:53
Total/NA	Analysis	537 (Mod)		1	483860	V4RH	ELLE	03/15/24 16:56
Total/NA	Prep	537.1 DW Prep			482029	HQ8B	ELLE	03/11/24 14:53
Total/NA	Analysis	EPA 537.1		1	482568	DCS9	ELLE	03/13/24 05:35

Client Sample ID: LTB01-240307
Lab Sample ID: 410-163269-5
Date Collected: 03/07/24 00:00
Matrix: Water
Date Received: 03/08/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			483452	D5VP	ELLE	03/14/24 15:53
Total/NA	Analysis	537 (Mod)		1	483860	V4RH	ELLE	03/15/24 17:09
Total/NA	Prep	537.1 DW Prep			482029	HQ8B	ELLE	03/11/24 14:53
Total/NA	Analysis	EPA 537.1		1	482568	DCS9	ELLE	03/13/24 05:58

Lab Chronicle

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

Job ID: 410-163269-1
SDG: HOO

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, 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: 410-163269-1
SDG: HOO

Laboratory: Eurofins Lancaster Laboratories Environment Testing, 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	04-01-24

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)	SPE	Water	6:2 Fluorotelomer sulfonic acid
537 (Mod)	SPE	Water	8:2 Fluorotelomer sulfonic acid
537 (Mod)	SPE	Water	Perfluorobutanoic acid
537 (Mod)	SPE	Water	Perfluorodecanesulfonic acid
537 (Mod)	SPE	Water	Perfluoroheptanesulfonic acid
537 (Mod)	SPE	Water	Perfluorooctanesulfonamide
537 (Mod)	SPE	Water	Perfluoropentanoic acid

Method Summary

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

Job ID: 410-163269-1
SDG: HOO

Method	Method Description	Protocol	Laboratory
537 (Mod)	EPA 537 Version 1.1 modified	EPA	ELLE
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, 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: 410-163269-1
SDG: HOO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-163269-1	GAC Influent	Water	03/07/24 09:10	03/08/24 09:40
410-163269-2	GAC Midfluent	Water	03/07/24 09:15	03/08/24 09:40
410-163269-3	GAC Effluent	Water	03/07/24 09:20	03/08/24 09:40
410-163269-4	FTB01-240307	Water	03/07/24 09:25	03/08/24 09:40
410-163269-5	LTB01-240307	Water	03/07/24 00:00	03/08/24 09:40

410-163269 Chain of Custody

es Environme

Chain of Custody Record

eurofins Environment Testing

Client Contact: Jonathan Dippert, Nancy Gary	Sampler: C. Ormsby	Lab PM: Gallagher, Kelly	Carrier Tracking No(s):	COC No: 410-113682-21525.1
Company: CT Male Associates DPC	Phone:	E Mail: kelly.gallagher@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2 / 1 of 1
Address: 50 Century Hill Dr	PWSID:	Analysis Requested		Job #:
City: Latham	Due Date Requested:			
State, Zip: NY, 12110	TAT Requested (days): Standard			
Phone: 518-786-7400	Compliance Project: Δ Yes Δ No			
Email: j.dippert@ctmale.com, N.gary@ctmale.com	PO #: Purchase Order not required			
Project Name: Hoosick Falls WTP	WO #:			
Site: WTP	Project #: 41000511			
	SSOW#:			

Preservation Codes:

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, Y - Tnzma, Z - other (specify)

Other:

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	537_DW - 14 PFAS Drinking Water List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	Y	N		
GAC INFLUENT	3/7/24	0910	G	Water			✓	✓		8	PFAS Batch QC collected here
GAC MIDFLUENT		0915		Water			✓	✓		4	
GAC EFFLUENT		0920		Water			✓	✓		4	
FTB01-240307		0925		Water			✓	✓		4	
LTB01-240307		—		Water			✓	✓		4	
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

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) EQuIS 1 file, ASP-B

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment		
Relinquished by: [signature]	Date/Time: 3/7/24 1540	Company: CM	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by: [signature]	Date/Time: 3/8/24 0940	Company: NMA

Custody Seals Intact: X Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: R: 0.9 C: 0.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-163269-1
SDG Number: HOO

Login Number: 163269
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Environment Testing, 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=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	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Sample Preservation Checks (performed by the laboratory)

Question	Answer	Comment
Did the sample containers checked meet expected preservation conditions?	False	Refer to Job Narrative for details.