



**Georgia-Pacific
Broadway LLC**

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September 22, 2022

Submitted via Email & Uploaded to BRRTS

Mr. Keld Lauridsen
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

**RE: Georgia-Pacific Broadway LLC (GP)
Submission of PFAS Soil and Groundwater Results for
BRRTS #: 02-05-586429**

Dear Mr. Lauridsen:

Please see attached PFAS groundwater monitoring laboratory results from the Georgia-Pacific Broadway LLC (GP) PFAS Site Investigation (BRRTS #: 02-05-586429) that are being submitted as required under Wisconsin Administrative Code (WAC) NR 716.14.

As specified in the Site Investigation Work Plan submitted January 26, 2022, a second round of groundwater sampling from the existing groundwater monitoring network was completed the week of August 1, 2022. The groundwater results were received on September 14, 2022, and are attached along with a map showing the locations of all groundwater monitoring wells. GP will provide a Site Investigation Summary Report within 60 days of receipt of the analytical results.

If you have any questions or concerns about these groundwater monitoring results, please do not hesitate to contact me via email at melissa.mrotek@gapac.com or by phone at 920-438-2233.

Sincerely,

A handwritten signature in black ink that reads 'Melissa Mrotek'.





Melissa Mrotek
Senior Environmental Manager
Georgia-Pacific LLC

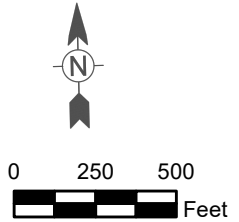
cc via email:

Mike Savale – Tetra Tech
Jackie Beaulieu – GP



Map Source: 2013 National Geographic Society

-  Approximate Site Boundary
-  Existing Monitoring Well
-  2022 Monitoring Well & Soil Boring
-  2022 Soil Boring



TETRA TECH

www.tetrattech.com
 710 AVIS DRIVE, SUITE 100
 ANN ARBOR, MI 48108
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2022 PFAS INVESTIGATION
 GEORGIA-PACIFIC BROADWAY FACILITY
 GREEN BAY, WISCONSIN
SAMPLE LOCATIONS

Project No: 117-4124237
 Designed by: ARR
 Date: 7/14/2022

FIGURE
1

Bar Measures 1 inch

September 12, 2022

Vista Work Order No. 2208125

Mr. Michael Savale
Tetra Tech
710 Avis Drive, Suite 100
Ann Arbor, MI 48108

Dear Mr. Savale,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on August 04, 2022 under your Project Name 'GP Broadway'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at chwhitehead@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Chris Whitehead
Project Manager



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2208125

Case Narrative

Sample Condition on Receipt:

Nineteen aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. As directed, sample "FB-1" was placed on hold.

Analytical Notes:

PFAS Isotope Dilution Method

The following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
2208125-04	MW-21-06
2208125-08	MW-21-07
2208125-09	MW-22-15
2208125-11	MW-22-12
2208125-12	MW-21-09
2208125-14	Dup-2

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with an "H" qualifier.

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Sample Inventory Report



Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2208125-01	MW-21-04	01-Aug-22 09:35	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-02	MW-22-13	01-Aug-22 10:40	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-03	MW-22-14	01-Aug-22 11:45	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-04	MW-21-06	01-Aug-22 13:15	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-05	MW-21-08	01-Aug-22 14:45	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-06	MW-21-11	02-Aug-22 08:00	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-07	GP-02	02-Aug-22 09:10	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-08	MW-21-07	02-Aug-22 09:55	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-09	MW-22-15	02-Aug-22 10:40	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-10	MW-21-05	02-Aug-22 11:45	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-11	MW-22-12	02-Aug-22 13:25	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-12	MW-21-09	02-Aug-22 14:20	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-13	Dup-1	01-Aug-22 00:00	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-14	Dup-2	01-Aug-22 00:00	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-15	EB-1	01-Aug-22 09:00	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-16	FB-1	01-Aug-22 09:05	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-17	MW-20-03	03-Aug-22 08:00	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-18	MW-21-10	03-Aug-22 08:35	04-Aug-22 09:05	HDPE Bottle, 250 mL
2208125-19	MW-20-02	03-Aug-22 09:30	04-Aug-22 09:05	HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B22H123-BLK1	Column:	BEH C18
Project:	GP Broadway						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.01	1.01	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFPeA	2706-90-3	<0.755	0.755	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFBS	375-73-5	<0.905	0.905	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
4:2 FTS	757124-72-4	<0.950	0.950	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFHxA	307-24-4	<0.815	0.815	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFPeS	2706-91-4	<0.820	0.820	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
HFPO-DA	13252-13-6	<1.57	1.57	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFHpA	375-85-9	<0.935	0.935	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
ADONA	919005-14-4	<0.640	0.640	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFHxS	355-46-4	<1.03	1.03	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
6:2 FTS	27619-97-2	<1.13	1.13	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFOA	335-67-1	<0.955	0.955	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFHpS	375-92-8	<0.595	0.595	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFNA	375-95-1	<0.755	0.755	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFOSA	754-91-6	<1.09	1.09	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFOS	1763-23-1	<1.13	1.13	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFDA	335-76-2	<0.945	0.945	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
8:2 FTS	39108-34-4	<1.14	1.14	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFNS	68259-12-1	<1.16	1.16	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
MeFOSAA	2355-31-9	<0.950	0.950	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
EtFOSAA	2991-50-6	<1.04	1.04	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFUnA	2058-94-8	<0.755	0.755	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFDS	335-77-3	<0.760	0.760	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
11Cl-PF3OUdS	763051-92-9	<0.990	0.990	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFDoA	307-55-1	<0.975	0.975	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
MeFOSA	31506-32-8	<2.24	2.24	2.50		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFTTrDA	72629-94-8	<0.655	0.655	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFDoS	79780-39-5	<1.42	1.42	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
PFTeDA	376-06-7	<0.815	0.815	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
EtFOSA	4151-50-2	<2.33	2.33	2.50		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
MeFOSE	24448-09-7	<2.00	2.00	2.50		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
EtFOSE	1691-99-2	<1.57	1.57	2.00		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	109	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C3-PFPeA	IS	110	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C3-PFBS	IS	110	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-4:2 FTS	IS	114	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B22H123-BLK1	Column:	BEH C18
Project:	GP Broadway						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	IS	107	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C3-HFPO-DA	IS	113	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C4-PFHpA	IS	107	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C3-PFHxS	IS	108	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-6:2 FTS	IS	112	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-PFOA	IS	106	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C5-PFNA	IS	106	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C8-PFOSA	IS	59.6	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C8-PFOS	IS	104	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-PFDA	IS	104	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-8:2 FTS	IS	90.6	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d3-MeFOSAA	IS	87.7	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d5-EtFOSAA	IS	90.5	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-PFUnA	IS	93.8	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-PFDoA	IS	88.9	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d3-MeFOSA	IS	29.1	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
13C2-PFTeDA	IS	56.0	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d5-EtFOSA	IS	29.5	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d7-MeFOSE	IS	45.0	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1
d9-EtFOSE	IS	44.8	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:12	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B22H123-BS1	Column:	BEH C18				
Project:	GP Broadway											

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.12	4.00	103	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFPeA	2706-90-3	3.75	4.00	93.9	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFBS	375-73-5	3.92	4.00	98.1	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
4:2 FTS	757124-72-4	4.04	4.00	101	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFHxA	307-24-4	4.16	4.00	104	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFPeS	2706-91-4	3.77	4.00	94.1	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
HFPO-DA	13252-13-6	3.68	4.00	92.0	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFHpA	375-85-9	4.39	4.00	110	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
ADONA	919005-14-4	3.85	4.00	96.2	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFHxS	355-46-4	4.24	4.00	106	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
6:2 FTS	27619-97-2	4.06	4.00	101	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFOA	335-67-1	3.74	4.00	93.5	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFHpS	375-92-8	3.88	4.00	96.9	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFNA	375-95-1	3.88	4.00	97.0	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFOSA	754-91-6	3.87	4.00	96.7	50 - 150	Q	B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFOS	1763-23-1	3.75	4.00	93.9	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
9Cl-PF3ONS	756426-58-1	3.31	4.00	82.7	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFDA	335-76-2	3.87	4.00	96.8	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
8:2 FTS	39108-34-4	3.90	4.00	97.6	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFNS	68259-12-1	3.28	4.00	81.9	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
MeFOSAA	2355-31-9	3.94	4.00	98.5	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
EtFOSAA	2991-50-6	3.75	4.00	93.7	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFUnA	2058-94-8	3.88	4.00	97.0	50 - 150	Q	B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFDS	335-77-3	3.68	4.00	92.1	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
11Cl-PF3OUdS	763051-92-9	4.33	4.00	108	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFDoA	307-55-1	4.03	4.00	101	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
MeFOSA	31506-32-8	4.29	4.00	107	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFTTrDA	72629-94-8	3.64	4.00	90.9	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFDoS	79780-39-5	5.61	4.00	140	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
PFTeDA	376-06-7	4.13	4.00	103	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
EtFOSA	4151-50-2	3.94	4.00	98.5	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1

Sample ID: OPR
PFAS Isotope Dilution Method

Client Data					Laboratory Data						
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B22H123-BS1	Column:	BEH C18			
Project:	GP Broadway										

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	24448-09-7	3.08	4.00	77.0	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
EtFOSE	1691-99-2	3.65	4.00	91.2	50 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		103	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C3-PFPeA		IS		103	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C3-PFBS		IS		95.5	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-4:2 FTS		IS		95.1	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFHxA		IS		96.2	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C3-HFPO-DA		IS		104	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C4-PFHpA		IS		96.9	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C3-PFHxS		IS		101	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-6:2 FTS		IS		100	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFOA		IS		98.7	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C5-PFNA		IS		95.8	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C8-PFOSA		IS		49.0	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C8-PFOS		IS		101	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFDA		IS		102	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-8:2 FTS		IS		94.8	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d3-MeFOSAA		IS		84.9	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d5-EtFOSAA		IS		80.6	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFUnA		IS		82.8	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFDoA		IS		75.3	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d3-MeFOSA		IS		26.0	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
13C2-PFTeDA		IS		41.3	25 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d5-EtFOSA		IS		26.9	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d7-MeFOSE		IS		37.1	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1
d9-EtFOSE		IS		32.3	10 - 150		B22H123	25-Aug-22	0.250 L	30-Aug-22 05:22	1

Sample ID: MW-21-04

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-01	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 09:35	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.96	0.993	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFPeA	2706-90-3	6.43	0.742	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFBS	375-73-5	1.59	0.890	1.97	J	B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
4:2 FTS	757124-72-4	<0.934	0.934	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFHxA	307-24-4	3.69	0.801	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFPeS	2706-91-4	<0.806	0.806	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
HFPO-DA	13252-13-6	<1.54	1.54	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFHpA	375-85-9	<0.919	0.919	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
ADONA	919005-14-4	<0.629	0.629	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFHxS	355-46-4	<1.01	1.01	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
6:2 FTS	27619-97-2	<1.11	1.11	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFOA	335-67-1	0.973	0.939	1.97	J	B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFHpS	375-92-8	<0.585	0.585	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFNA	375-95-1	<0.742	0.742	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFOSA	754-91-6	<1.07	1.07	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFOS	1763-23-1	<1.11	1.11	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFDA	335-76-2	<0.929	0.929	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
8:2 FTS	39108-34-4	<1.12	1.12	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFNS	68259-12-1	<1.14	1.14	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
MeFOSAA	2355-31-9	<0.934	0.934	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
EtFOSAA	2991-50-6	<1.02	1.02	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFUnA	2058-94-8	<0.742	0.742	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFDS	335-77-3	<0.747	0.747	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
11Cl-PF3OUdS	763051-92-9	<0.973	0.973	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFDoA	307-55-1	<0.958	0.958	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
MeFOSA	31506-32-8	<2.20	2.20	2.46		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFTTrDA	72629-94-8	<0.644	0.644	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFDoS	79780-39-5	<1.39	1.39	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
PFTeDA	376-06-7	<0.801	0.801	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
EtFOSA	4151-50-2	<2.29	2.29	2.46		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
MeFOSE	24448-09-7	<1.97	1.97	2.46		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
EtFOSE	1691-99-2	<1.54	1.54	1.97		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.0	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C3-PFPeA	IS	110	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C3-PFBS	IS	108	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1

Sample ID: MW-21-04
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-01	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 09:35	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	109	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFHxA	IS	104	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C3-HFPO-DA	IS	110	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C4-PFHpA	IS	104	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C3-PFHxS	IS	105	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-6:2 FTS	IS	95.0	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFOA	IS	95.7	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C5-PFNA	IS	98.8	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C8-PFOA	IS	69.8	10 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C8-PFOS	IS	100	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFDA	IS	101	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-8:2 FTS	IS	95.1	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d3-MeFOSAA	IS	95.7	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d5-EtFOSAA	IS	97.7	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFUnA	IS	84.2	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFDoA	IS	91.6	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d3-MeFOSA	IS	39.3	10 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
13C2-PFTeDA	IS	77.8	25 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d5-EtFOSA	IS	40.2	10 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d7-MeFOSE	IS	65.6	10 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1
d9-EtFOSE	IS	70.0	10 - 150		B22H123	25-Aug-22	0.254 L	30-Aug-22 05:33	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-22-13
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-02	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 10:40	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.989	0.989	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFPeA	2706-90-3	<0.739	0.739	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFBS	375-73-5	<0.886	0.886	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
4:2 FTS	757124-72-4	<0.930	0.930	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFHxA	307-24-4	<0.798	0.798	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFPeS	2706-91-4	<0.803	0.803	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
HFPO-DA	13252-13-6	<1.53	1.53	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFHpA	375-85-9	<0.915	0.915	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
ADONA	919005-14-4	<0.627	0.627	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFHxS	355-46-4	<1.01	1.01	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
6:2 FTS	27619-97-2	<1.10	1.10	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFOA	335-67-1	<0.935	0.935	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFHpS	375-92-8	<0.583	0.583	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFNA	375-95-1	<0.739	0.739	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFOSA	754-91-6	<1.07	1.07	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFOS	1763-23-1	<1.11	1.11	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
9Cl-PF3ONS	756426-58-1	<1.04	1.04	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFDA	335-76-2	<0.925	0.925	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
8:2 FTS	39108-34-4	<1.11	1.11	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFNS	68259-12-1	<1.13	1.13	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
MeFOSAA	2355-31-9	<0.930	0.930	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
EtFOSAA	2991-50-6	<1.02	1.02	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFUnA	2058-94-8	<0.739	0.739	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFDS	335-77-3	<0.744	0.744	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
11Cl-PF3OUdS	763051-92-9	<0.969	0.969	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFDoA	307-55-1	<0.955	0.955	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
MeFOSA	31506-32-8	<2.19	2.19	2.45		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFTTrDA	72629-94-8	<0.641	0.641	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFDoS	79780-39-5	<1.39	1.39	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
PFTeDA	376-06-7	<0.798	0.798	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
EtFOSA	4151-50-2	<2.28	2.28	2.45		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
MeFOSE	24448-09-7	<1.96	1.96	2.45		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
EtFOSE	1691-99-2	<1.54	1.54	1.96		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	85.1	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C3-PFPeA	IS	98.5	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C3-PFBS	IS	102	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1

Sample ID: MW-22-13
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-02	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 10:40	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	95.7	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFHxA	IS	95.3	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C3-HFPO-DA	IS	103	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C4-PFHpA	IS	96.5	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C3-PFHxS	IS	103	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-6:2 FTS	IS	98.2	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFOA	IS	93.3	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C5-PFNA	IS	95.0	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C8-PFOA	IS	66.3	10 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C8-PFOS	IS	92.4	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFDA	IS	100	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-8:2 FTS	IS	78.6	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d3-MeFOSAA	IS	92.2	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d5-EtFOSAA	IS	87.1	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFUnA	IS	83.1	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFDoA	IS	82.3	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d3-MeFOSA	IS	32.0	10 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
13C2-PFTeDA	IS	71.6	25 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d5-EtFOSA	IS	30.9	10 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d7-MeFOSE	IS	58.8	10 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1
d9-EtFOSE	IS	60.4	10 - 150		B22H123	25-Aug-22	0.255 L	30-Aug-22 05:43	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-22-14
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-03	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 11:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	28.6	1.02	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFPeA	2706-90-3	44.2	0.762	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFBS	375-73-5	5.16	0.913	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
4:2 FTS	757124-72-4	<0.959	0.959	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFHxA	307-24-4	60.5	0.823	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFPeS	2706-91-4	6.06	0.828	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
HFPO-DA	13252-13-6	<1.58	1.58	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFHpA	375-85-9	73.7	0.944	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
ADONA	919005-14-4	<0.646	0.646	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFHxS	355-46-4	36.7	1.04	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
6:2 FTS	27619-97-2	1.40	1.14	2.02	J	B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFOA	335-67-1	520	0.964	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFHpS	375-92-8	27.5	0.601	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFNA	375-95-1	75.1	0.762	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFOSA	754-91-6	48.4	1.10	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFOS	1763-23-1	2070	5.70	10.1	D	B22H123	25-Aug-22	0.248 L	02-Sep-22 16:13	5
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFDA	335-76-2	17.6	0.954	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
8:2 FTS	39108-34-4	3.09	1.15	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFNS	68259-12-1	<1.17	1.17	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
MeFOSAA	2355-31-9	12.1	0.959	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
EtFOSAA	2991-50-6	87.0	1.05	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFUnA	2058-94-8	<0.762	0.762	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFDS	335-77-3	<0.767	0.767	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
11Cl-PF3OUdS	763051-92-9	<0.999	0.999	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFDoA	307-55-1	<0.984	0.984	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
MeFOSA	31506-32-8	<2.26	2.26	2.52		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFTTrDA	72629-94-8	<0.661	0.661	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFDoS	79780-39-5	<1.43	1.43	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
PFTeDA	376-06-7	<0.823	0.823	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
EtFOSA	4151-50-2	<2.35	2.35	2.52		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
MeFOSE	24448-09-7	<2.02	2.02	2.52		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
EtFOSE	1691-99-2	<1.58	1.58	2.02		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	69.7	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C3-PFPeA	IS	99.8	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C3-PFBS	IS	108	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1

Sample ID: MW-22-14
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-03	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 11:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	113	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-PFHxA	IS	103	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C3-HFPO-DA	IS	108	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C4-PFHpA	IS	97.7	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C3-PFHxS	IS	114	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-6:2 FTS	IS	121	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-PFOA	IS	100	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C5-PFNA	IS	104	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C8-PFOA	IS	78.4	10 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C8-PFOS	IS	107	25 - 150	D	B22H123	25-Aug-22	0.248 L	02-Sep-22 16:13	5
13C2-PFDA	IS	105	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-8:2 FTS	IS	94.0	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d3-MeFOSAA	IS	97.0	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d5-EtFOSAA	IS	104	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-PFUnA	IS	91.0	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-PFDoA	IS	95.8	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d3-MeFOSA	IS	38.1	10 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
13C2-PFTeDA	IS	83.2	25 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d5-EtFOSA	IS	37.7	10 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d7-MeFOSE	IS	79.8	10 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1
d9-EtFOSE	IS	78.2	10 - 150		B22H123	25-Aug-22	0.248 L	30-Aug-22 05:53	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-06
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-04	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 13:15	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	34.9	1.03	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFPeA	2706-90-3	64.6	0.767	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFBS	375-73-5	7.69	0.919	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
4:2 FTS	757124-72-4	<0.965	0.965	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFHxA	307-24-4	66.3	0.828	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFPeS	2706-91-4	6.58	0.833	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
HFPO-DA	13252-13-6	<1.59	1.59	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFHpA	375-85-9	87.4	0.950	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
ADONA	919005-14-4	<0.650	0.650	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFHxS	355-46-4	30.9	1.05	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
6:2 FTS	27619-97-2	1.99	1.14	2.03	J	B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFOA	335-67-1	512	0.970	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFHpS	375-92-8	20.5	0.604	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFNA	375-95-1	108	0.767	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFOSA	754-91-6	83.7	1.11	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFOS	1763-23-1	2280	5.74	10.2	D	B22H123	25-Aug-22	0.246 L	02-Sep-22 16:23	5
9Cl-PF3ONS	756426-58-1	<1.08	1.08	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFDA	335-76-2	40.7	0.960	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
8:2 FTS	39108-34-4	5.50	1.15	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFNS	68259-12-1	<1.17	1.17	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
MeFOSAA	2355-31-9	18.0	0.965	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
EtFOSAA	2991-50-6	92.4	1.06	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFUnA	2058-94-8	<0.767	0.767	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFDS	335-77-3	<0.772	0.772	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
11Cl-PF3OUdS	763051-92-9	<1.01	1.01	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFDoA	307-55-1	<0.990	0.990	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
MeFOSA	31506-32-8	<2.28	2.28	2.54		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFTTrDA	72629-94-8	<0.665	0.665	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFDoS	79780-39-5	<1.44	1.44	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
PFTeDA	376-06-7	<0.828	0.828	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
EtFOSA	4151-50-2	<2.36	2.36	2.54		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
MeFOSE	24448-09-7	<2.03	2.03	2.54		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
EtFOSE	1691-99-2	<1.59	1.59	2.03		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	72.9	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C3-PFPeA	IS	94.4	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C3-PFBS	IS	105	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1

Sample ID: MW-21-06
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-04	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 13:15	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	95.9	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-PFHxA	IS	104	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C3-HFPO-DA	IS	93.2	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C4-PFHpA	IS	98.6	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C3-PFHxS	IS	105	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-6:2 FTS	IS	118	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-PFOA	IS	103	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C5-PFNA	IS	101	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C8-PFOA	IS	80.8	10 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C8-PFOS	IS	87.5	25 - 150	D	B22H123	25-Aug-22	0.246 L	02-Sep-22 16:23	5
13C2-PFDA	IS	95.2	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-8:2 FTS	IS	104	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d3-MeFOSAA	IS	90.8	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d5-EtFOSAA	IS	89.5	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-PFUnA	IS	92.6	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-PFDoA	IS	97.6	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d3-MeFOSA	IS	33.8	10 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
13C2-PFTeDA	IS	83.0	25 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d5-EtFOSA	IS	33.3	10 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d7-MeFOSE	IS	75.1	10 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1
d9-EtFOSE	IS	75.6	10 - 150		B22H123	25-Aug-22	0.246 L	02-Sep-22 16:33	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-08

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-05	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 14:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	18.6	0.991	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFPeA	2706-90-3	27.3	0.740	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFBS	375-73-5	3.41	0.888	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
4:2 FTS	757124-72-4	<0.932	0.932	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFHxA	307-24-4	38.3	0.799	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFPeS	2706-91-4	1.68	0.804	1.96	J	B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
HFPO-DA	13252-13-6	<1.53	1.53	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFHpA	375-85-9	30.1	0.917	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
ADONA	919005-14-4	<0.628	0.628	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFHxS	355-46-4	9.46	1.01	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
6:2 FTS	27619-97-2	<1.10	1.10	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFOA	335-67-1	130	0.937	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFHpS	375-92-8	2.30	0.584	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFNA	375-95-1	14.8	0.740	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFOSA	754-91-6	<1.07	1.07	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFOS	1763-23-1	106	1.11	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
9Cl-PF3ONS	756426-58-1	<1.04	1.04	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFDA	335-76-2	2.22	0.927	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
8:2 FTS	39108-34-4	<1.11	1.11	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFNS	68259-12-1	<1.13	1.13	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
MeFOSAA	2355-31-9	<0.932	0.932	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
EtFOSAA	2991-50-6	<1.02	1.02	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFUnA	2058-94-8	1.04	0.740	1.96	J	B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFDS	335-77-3	<0.745	0.745	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
11Cl-PF3OUdS	763051-92-9	<0.971	0.971	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFDoA	307-55-1	<0.956	0.956	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
MeFOSA	31506-32-8	<2.20	2.20	2.45		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFTTrDA	72629-94-8	<0.642	0.642	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFDoS	79780-39-5	<1.39	1.39	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
PFTeDA	376-06-7	<0.799	0.799	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
EtFOSA	4151-50-2	<2.28	2.28	2.45		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
MeFOSE	24448-09-7	<1.96	1.96	2.45		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
EtFOSE	1691-99-2	<1.54	1.54	1.96		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	76.9	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C3-PFPeA	IS	96.7	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C3-PFBS	IS	101	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1

Sample ID: MW-21-08
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-05	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 14:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	87.9	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFHxA	IS	94.9	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C3-HFPO-DA	IS	94.7	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C4-PFHpA	IS	95.4	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C3-PFHxS	IS	89.2	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-6:2 FTS	IS	98.3	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFOA	IS	93.9	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C5-PFNA	IS	93.1	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C8-PFOA	IS	74.4	10 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C8-PFOS	IS	81.6	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFDA	IS	89.9	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-8:2 FTS	IS	95.7	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d3-MeFOSAA	IS	88.4	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d5-EtFOSAA	IS	91.6	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFUnA	IS	86.2	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFDoA	IS	92.2	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d3-MeFOSA	IS	37.2	10 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
13C2-PFTeDA	IS	82.8	25 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d5-EtFOSA	IS	38.5	10 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d7-MeFOSE	IS	73.6	10 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1
d9-EtFOSE	IS	70.1	10 - 150		B22H123	25-Aug-22	0.255 L	02-Sep-22 16:54	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-11
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-06	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 08:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.02	1.02	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFPeA	2706-90-3	5.55	0.759	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFBS	375-73-5	<0.910	0.910	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
4:2 FTS	757124-72-4	<0.955	0.955	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFHxA	307-24-4	14.1	0.819	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFPeS	2706-91-4	<0.824	0.824	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFHpA	375-85-9	8.79	0.940	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
ADONA	919005-14-4	<0.643	0.643	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFHxS	355-46-4	3.26	1.04	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
6:2 FTS	27619-97-2	1.27	1.13	2.01	J	B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFOA	335-67-1	43.0	0.960	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFHpS	375-92-8	<0.598	0.598	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFNA	375-95-1	3.90	0.759	2.01	Q	B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFOSA	754-91-6	10.3	1.10	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFOS	1763-23-1	56.6	1.14	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFDA	335-76-2	11.5	0.950	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
8:2 FTS	39108-34-4	2.41	1.14	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFNS	68259-12-1	<1.16	1.16	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
MeFOSAA	2355-31-9	1.55	0.955	2.01	J	B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
EtFOSAA	2991-50-6	21.6	1.05	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFUnA	2058-94-8	2.80	0.759	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFDS	335-77-3	<0.764	0.764	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
11Cl-PF3OUdS	763051-92-9	<0.995	0.995	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFDoA	307-55-1	2.51	0.980	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
MeFOSA	31506-32-8	<2.25	2.25	2.51		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFTTrDA	72629-94-8	<0.658	0.658	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
PFTeDA	376-06-7	<0.819	0.819	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
EtFOSA	4151-50-2	<2.34	2.34	2.51		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
MeFOSE	24448-09-7	<2.01	2.01	2.51		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	4.30	25 - 150	H	B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C3-PFPeA	IS	33.3	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C3-PFBS	IS	75.8	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1

Sample ID: MW-21-11
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-06	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 08:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	76.0	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFHxA	IS	79.5	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C3-HFPO-DA	IS	77.9	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C4-PFHpA	IS	93.9	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C3-PFHxS	IS	97.3	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-6:2 FTS	IS	92.1	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFOA	IS	92.8	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C5-PFNA	IS	94.4	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C8-PFOA	IS	81.1	10 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C8-PFOS	IS	88.8	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFDA	IS	88.5	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-8:2 FTS	IS	99.6	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d3-MeFOSAA	IS	90.1	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d5-EtFOSAA	IS	89.6	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFUnA	IS	87.8	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFDoA	IS	88.5	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d3-MeFOSA	IS	51.5	10 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
13C2-PFTeDA	IS	65.6	25 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d5-EtFOSA	IS	49.6	10 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d7-MeFOSE	IS	67.6	10 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1
d9-EtFOSE	IS	64.5	10 - 150		B22H123	25-Aug-22	0.249 L	02-Sep-22 17:05	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: GP-02
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-07	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 09:10	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.21	1.00	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFPeA	2706-90-3	2.26	0.749	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFBS	375-73-5	1.60	0.898	1.98	J	B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
4:2 FTS	757124-72-4	<0.943	0.943	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFHxA	307-24-4	2.70	0.809	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFPeS	2706-91-4	<0.814	0.814	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
HFPO-DA	13252-13-6	<1.55	1.55	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFHpA	375-85-9	1.29	0.928	1.98	J	B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
ADONA	919005-14-4	<0.635	0.635	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFHxS	355-46-4	1.25	1.02	1.98	J	B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
6:2 FTS	27619-97-2	<1.12	1.12	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFOA	335-67-1	5.89	0.948	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFHpS	375-92-8	<0.590	0.590	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFNA	375-95-1	<0.749	0.749	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFOSA	754-91-6	3.51	1.08	1.98	Q	B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFOS	1763-23-1	1.72	1.12	1.98	J	B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
9Cl-PF3ONS	756426-58-1	<1.06	1.06	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFDA	335-76-2	<0.938	0.938	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
8:2 FTS	39108-34-4	<1.13	1.13	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFNS	68259-12-1	<1.15	1.15	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
MeFOSAA	2355-31-9	<0.943	0.943	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
EtFOSAA	2991-50-6	<1.03	1.03	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFUnA	2058-94-8	<0.749	0.749	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFDS	335-77-3	<0.754	0.754	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
11Cl-PF3OUdS	763051-92-9	<0.982	0.982	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFDoA	307-55-1	<0.967	0.967	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
MeFOSA	31506-32-8	<2.22	2.22	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFTrDA	72629-94-8	<0.650	0.650	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFDoS	79780-39-5	<1.40	1.40	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
PFTeDA	376-06-7	<0.809	0.809	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
EtFOSA	4151-50-2	<2.31	2.31	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
MeFOSE	24448-09-7	<1.98	1.98	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
EtFOSE	1691-99-2	<1.56	1.56	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	83.2	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C3-PFPeA	IS	114	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C3-PFBS	IS	115	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1

Sample ID: GP-02
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-07	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 09:10	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	119	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFHxA	IS	112	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C3-HFPO-DA	IS	118	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C4-PFHpA	IS	110	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C3-PFHxS	IS	115	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-6:2 FTS	IS	111	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFOA	IS	104	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C5-PFNA	IS	107	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C8-PFOA	IS	81.4	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C8-PFOS	IS	104	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFDA	IS	102	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-8:2 FTS	IS	101	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d3-MeFOSAA	IS	99.5	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d5-EtFOSAA	IS	104	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFUnA	IS	90.7	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFDoA	IS	93.6	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d3-MeFOSA	IS	37.8	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
13C2-PFTeDA	IS	82.6	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d5-EtFOSA	IS	34.6	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d7-MeFOSE	IS	67.3	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1
d9-EtFOSE	IS	67.4	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 06:35	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-07

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-08	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 09:55	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	25.6	1.02	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFPeA	2706-90-3	38.2	0.763	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFBS	375-73-5	2.84	0.915	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
4:2 FTS	757124-72-4	<0.960	0.960	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFHxA	307-24-4	50.7	0.824	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFPeS	2706-91-4	3.84	0.829	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
HFPO-DA	13252-13-6	<1.58	1.58	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFHpA	375-85-9	46.4	0.945	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
ADONA	919005-14-4	<0.647	0.647	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFHxS	355-46-4	19.0	1.04	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
6:2 FTS	27619-97-2	2.33	1.14	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFOA	335-67-1	212	0.965	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFHpS	375-92-8	7.13	0.601	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFNA	375-95-1	57.6	0.763	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFOSA	754-91-6	40.5	1.10	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFOS	1763-23-1	284	1.14	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
9Cl-PF3ONS	756426-58-1	<1.08	1.08	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFDA	335-76-2	8.93	0.955	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
8:2 FTS	39108-34-4	2.05	1.15	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFNS	68259-12-1	<1.17	1.17	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
MeFOSAA	2355-31-9	1.71	0.960	2.02	J, Q	B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
EtFOSAA	2991-50-6	13.6	1.05	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFUnA	2058-94-8	<0.763	0.763	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFDS	335-77-3	<0.768	0.768	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
11Cl-PF3OUdS	763051-92-9	<1.00	1.00	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFDoA	307-55-1	<0.986	0.986	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
MeFOSA	31506-32-8	<2.26	2.26	2.53		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFTrDA	72629-94-8	<0.662	0.662	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFDoS	79780-39-5	<1.43	1.43	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
PFTeDA	376-06-7	<0.824	0.824	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
EtFOSA	4151-50-2	<2.35	2.35	2.53		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
MeFOSE	24448-09-7	<2.02	2.02	2.53		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
EtFOSE	1691-99-2	<1.59	1.59	2.02		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	83.4	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C3-PFPeA	IS	106	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C3-PFBS	IS	102	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1

Sample ID: MW-21-07
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-08	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 09:55	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	113	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFHxA	IS	107	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C3-HFPO-DA	IS	115	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C4-PFHpA	IS	102	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C3-PFHxS	IS	107	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-6:2 FTS	IS	104	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFOA	IS	103	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C5-PFNA	IS	102	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C8-PFOA	IS	74.7	10 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C8-PFOS	IS	102	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFDA	IS	98.0	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-8:2 FTS	IS	96.7	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d3-MeFOSAA	IS	97.6	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d5-EtFOSAA	IS	100	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFUnA	IS	90.2	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFDoA	IS	89.7	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d3-MeFOSA	IS	36.6	10 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
13C2-PFTeDA	IS	65.0	25 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d5-EtFOSA	IS	36.6	10 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d7-MeFOSE	IS	73.5	10 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1
d9-EtFOSE	IS	69.3	10 - 150		B22H123	25-Aug-22	0.247 L	30-Aug-22 06:45	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-22-15
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-09	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 10:40	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	11.6	1.02	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFPeA	2706-90-3	18.9	0.759	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFBS	375-73-5	<0.910	0.910	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
4:2 FTS	757124-72-4	<0.955	0.955	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFHxA	307-24-4	20.7	0.819	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFPeS	2706-91-4	<0.824	0.824	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFHpA	375-85-9	15.1	0.940	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
ADONA	919005-14-4	<0.644	0.644	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFHxS	355-46-4	2.54	1.04	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFOA	335-67-1	50.7	0.960	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFHpS	375-92-8	<0.598	0.598	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFNA	375-95-1	2.28	0.759	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFOSA	754-91-6	17.5	1.10	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFOS	1763-23-1	42.6	1.14	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFDA	335-76-2	2.94	0.950	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFNS	68259-12-1	<1.16	1.16	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
MeFOSAA	2355-31-9	<0.955	0.955	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
EtFOSAA	2991-50-6	5.42	1.05	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFUnA	2058-94-8	<0.759	0.759	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFDS	335-77-3	<0.764	0.764	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
11Cl-PF3OUdS	763051-92-9	<0.995	0.995	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFDoA	307-55-1	<0.980	0.980	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
MeFOSA	31506-32-8	<2.25	2.25	2.51		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFTrDA	72629-94-8	<0.659	0.659	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
PFTeDA	376-06-7	<0.819	0.819	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
EtFOSA	4151-50-2	<2.34	2.34	2.51		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
MeFOSE	24448-09-7	<2.01	2.01	2.51		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	54.1	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C3-PFPeA	IS	82.3	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C3-PFBS	IS	108	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1

Sample ID: MW-22-15
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-09	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 10:40	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	131	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFHxA	IS	101	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C3-HFPO-DA	IS	97.0	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C4-PFHpA	IS	106	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C3-PFHxS	IS	119	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-6:2 FTS	IS	117	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFOA	IS	110	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C5-PFNA	IS	114	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C8-PFOA	IS	77.3	10 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C8-PFOS	IS	103	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFDA	IS	102	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-8:2 FTS	IS	106	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d3-MeFOSAA	IS	100	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d5-EtFOSAA	IS	96.2	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFUnA	IS	89.8	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFDoA	IS	89.3	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d3-MeFOSA	IS	44.6	10 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
13C2-PFTeDA	IS	62.1	25 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d5-EtFOSA	IS	43.9	10 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d7-MeFOSE	IS	73.0	10 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1
d9-EtFOSE	IS	68.3	10 - 150		B22H123	25-Aug-22	0.249 L	30-Aug-22 06:56	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-05
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-10	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 11:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	31.2	1.05	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFPeA	2706-90-3	57.4	0.786	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFBS	375-73-5	4.61	0.942	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
4:2 FTS	757124-72-4	<0.988	0.988	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFHxA	307-24-4	131	0.848	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFPeS	2706-91-4	6.07	0.853	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
HFPO-DA	13252-13-6	<1.63	1.63	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFHpA	375-85-9	99.2	0.973	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
ADONA	919005-14-4	<0.666	0.666	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFHxS	355-46-4	26.4	1.07	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
6:2 FTS	27619-97-2	9.37	1.17	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFOA	335-67-1	403	0.994	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFHpS	375-92-8	10.3	0.619	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFNA	375-95-1	48.7	0.786	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFOSA	754-91-6	57.0	1.13	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFOS	1763-23-1	758	1.18	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
9Cl-PF3ONS	756426-58-1	<1.11	1.11	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFDA	335-76-2	8.64	0.983	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
8:2 FTS	39108-34-4	6.68	1.18	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFNS	68259-12-1	<1.20	1.20	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
MeFOSAA	2355-31-9	5.71	0.988	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
EtFOSAA	2991-50-6	15.5	1.08	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFUnA	2058-94-8	<0.786	0.786	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFDS	335-77-3	<0.791	0.791	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
11Cl-PF3OUdS	763051-92-9	<1.03	1.03	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFDoA	307-55-1	<1.01	1.01	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
MeFOSA	31506-32-8	<2.33	2.33	2.60		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFTTrDA	72629-94-8	<0.682	0.682	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFDoS	79780-39-5	<1.47	1.47	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
PFTeDA	376-06-7	<0.848	0.848	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
EtFOSA	4151-50-2	<2.42	2.42	2.60		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
MeFOSE	24448-09-7	<2.08	2.08	2.60		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
EtFOSE	1691-99-2	<1.63	1.63	2.08		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	75.1	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C3-PFPeA	IS	98.2	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C3-PFBS	IS	91.8	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1

Sample ID: MW-21-05
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-10	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 11:45	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.1	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFHxA	IS	98.6	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C3-HFPO-DA	IS	105	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C4-PFHpA	IS	93.4	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C3-PFHxS	IS	100	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-6:2 FTS	IS	103	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFOA	IS	96.2	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C5-PFNA	IS	98.4	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C8-PFOA	IS	70.8	10 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C8-PFOS	IS	90.9	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFDA	IS	99.0	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-8:2 FTS	IS	83.3	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d3-MeFOSAA	IS	83.0	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d5-EtFOSAA	IS	95.2	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFUnA	IS	84.9	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFDoA	IS	87.5	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d3-MeFOSA	IS	33.1	10 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
13C2-PFTeDA	IS	75.9	25 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d5-EtFOSA	IS	32.6	10 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d7-MeFOSE	IS	67.6	10 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1
d9-EtFOSE	IS	68.4	10 - 150		B22H123	25-Aug-22	0.240 L	30-Aug-22 07:06	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-22-12
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-11	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 13:25	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	22.3	1.02	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFPeA	2706-90-3	25.2	0.760	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFBS	375-73-5	4.17	0.911	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
4:2 FTS	757124-72-4	<0.956	0.956	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFHxA	307-24-4	40.4	0.820	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFPeS	2706-91-4	11.4	0.825	2.01	Q	B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFHpA	375-85-9	37.1	0.941	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
ADONA	919005-14-4	<0.644	0.644	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFHxS	355-46-4	18.9	1.04	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFOA	335-67-1	179	0.961	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFHpS	375-92-8	3.55	0.599	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFNA	375-95-1	3.72	0.760	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFOSA	754-91-6	31.9	1.10	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFOS	1763-23-1	106	1.14	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFDA	335-76-2	<0.951	0.951	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFNS	68259-12-1	<1.16	1.16	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
MeFOSAA	2355-31-9	<0.956	0.956	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
EtFOSAA	2991-50-6	<1.05	1.05	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFUnA	2058-94-8	<0.760	0.760	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFDS	335-77-3	<0.765	0.765	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
11Cl-PF3OUdS	763051-92-9	<0.996	0.996	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFDoA	307-55-1	<0.981	0.981	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
MeFOSA	31506-32-8	<2.25	2.25	2.52		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFTTrDA	72629-94-8	<0.659	0.659	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
PFTeDA	376-06-7	<0.820	0.820	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
EtFOSA	4151-50-2	<2.34	2.34	2.52		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
MeFOSE	24448-09-7	<2.01	2.01	2.52		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	75.7	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C3-PFPeA	IS	90.3	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C3-PFBS	IS	104	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1

Sample ID: MW-22-12
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-11	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 13:25	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.0	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFHxA	IS	96.0	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C3-HFPO-DA	IS	102	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C4-PFHpA	IS	98.3	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C3-PFHxS	IS	103	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-6:2 FTS	IS	107	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFOA	IS	93.3	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C5-PFNA	IS	92.7	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C8-PFOA	IS	45.3	10 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C8-PFOS	IS	88.1	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFDA	IS	86.0	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-8:2 FTS	IS	103	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d3-MeFOSAA	IS	87.6	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d5-EtFOSAA	IS	88.9	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFUnA	IS	84.2	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFDoA	IS	88.2	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d3-MeFOSA	IS	7.70	10 - 150	H	B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
13C2-PFTeDA	IS	78.2	25 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d5-EtFOSA	IS	8.50	10 - 150	H	B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d7-MeFOSE	IS	35.7	10 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1
d9-EtFOSE	IS	35.7	10 - 150		B22H123	25-Aug-22	0.248 L	02-Sep-22 17:15	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-09

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-12	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 14:20	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	16.5	0.983	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFPeA	2706-90-3	20.7	0.735	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFBS	375-73-5	2.28	0.881	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
4:2 FTS	757124-72-4	<0.925	0.925	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFHxA	307-24-4	27.7	0.793	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFPeS	2706-91-4	4.97	0.798	1.95	Q	B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
HFPO-DA	13252-13-6	<1.52	1.52	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFHpA	375-85-9	27.1	0.910	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
ADONA	919005-14-4	<0.623	0.623	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFHxS	355-46-4	16.4	1.00	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
6:2 FTS	27619-97-2	<1.09	1.09	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFOA	335-67-1	132	0.929	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFHpS	375-92-8	3.79	0.579	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFNA	375-95-1	12.3	0.735	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFOSA	754-91-6	31.9	1.06	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFOS	1763-23-1	228	1.10	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
9Cl-PF3ONS	756426-58-1	<1.04	1.04	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFDA	335-76-2	0.967	0.920	1.95	J	B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
8:2 FTS	39108-34-4	<1.10	1.10	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFNS	68259-12-1	<1.12	1.12	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
MeFOSAA	2355-31-9	1.34	0.925	1.95	J	B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
EtFOSAA	2991-50-6	4.74	1.01	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFUnA	2058-94-8	<0.735	0.735	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFDS	335-77-3	<0.740	0.740	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
11Cl-PF3OUdS	763051-92-9	<0.964	0.964	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFDoA	307-55-1	<0.949	0.949	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
MeFOSA	31506-32-8	<2.18	2.18	2.43		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFTTrDA	72629-94-8	<0.638	0.638	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFDoS	79780-39-5	<1.38	1.38	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
PFTeDA	376-06-7	<0.793	0.793	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
EtFOSA	4151-50-2	<2.26	2.26	2.43		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
MeFOSE	24448-09-7	<1.95	1.95	2.43		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
EtFOSE	1691-99-2	<1.53	1.53	1.95		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	85.2	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C3-PFPeA	IS	97.7	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C3-PFBS	IS	97.9	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1

Sample ID: MW-21-09
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-12	Column:	BEH C18
Project:	GP Broadway	Date Collected:	02-Aug-22 14:20	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	114	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFHxA	IS	99.6	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C3-HFPO-DA	IS	105	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C4-PFHpA	IS	94.4	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C3-PFHxS	IS	101	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-6:2 FTS	IS	110	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFOA	IS	99.4	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C5-PFNA	IS	96.9	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C8-PFOA	IS	65.3	10 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C8-PFOS	IS	97.5	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFDA	IS	93.5	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-8:2 FTS	IS	93.1	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d3-MeFOSAA	IS	89.2	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d5-EtFOSAA	IS	88.2	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFUnA	IS	78.3	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFDoA	IS	84.2	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d3-MeFOSA	IS	42.2	10 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
13C2-PFTeDA	IS	66.9	25 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d5-EtFOSA	IS	42.1	10 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d7-MeFOSE	IS	67.6	10 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1
d9-EtFOSE	IS	69.5	10 - 150		B22H123	25-Aug-22	0.257 L	30-Aug-22 07:58	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Dup-1
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-13	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 00:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.15	0.986	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFPeA	2706-90-3	7.00	0.737	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFBS	375-73-5	1.35	0.884	1.95	J	B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
4:2 FTS	757124-72-4	<0.928	0.928	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFHxA	307-24-4	3.53	0.796	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFPeS	2706-91-4	<0.801	0.801	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
HFPO-DA	13252-13-6	<1.53	1.53	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFHpA	375-85-9	<0.913	0.913	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
ADONA	919005-14-4	<0.625	0.625	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFHxS	355-46-4	<1.01	1.01	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
6:2 FTS	27619-97-2	<1.10	1.10	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFOA	335-67-1	0.953	0.933	1.95	J	B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFHpS	375-92-8	<0.581	0.581	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFNA	375-95-1	<0.737	0.737	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFOSA	754-91-6	1.12	1.06	1.95	J, Q	B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFOS	1763-23-1	<1.10	1.10	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
9Cl-PF3ONS	756426-58-1	<1.04	1.04	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFDA	335-76-2	<0.923	0.923	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
8:2 FTS	39108-34-4	<1.11	1.11	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFNS	68259-12-1	<1.13	1.13	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
MeFOSAA	2355-31-9	<0.928	0.928	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
EtFOSAA	2991-50-6	<1.02	1.02	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFUnA	2058-94-8	<0.737	0.737	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFDS	335-77-3	<0.742	0.742	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
11Cl-PF3OUdS	763051-92-9	<0.967	0.967	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFDoA	307-55-1	<0.952	0.952	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
MeFOSA	31506-32-8	<2.19	2.19	2.44		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFTrDA	72629-94-8	<0.640	0.640	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFDoS	79780-39-5	<1.38	1.38	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
PFTeDA	376-06-7	<0.796	0.796	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
EtFOSA	4151-50-2	<2.27	2.27	2.44		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
MeFOSE	24448-09-7	<1.95	1.95	2.44		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
EtFOSE	1691-99-2	<1.53	1.53	1.95		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.0	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C3-PFPeA	IS	108	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C3-PFBS	IS	104	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1

Sample ID: Dup-1
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-13	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 00:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	101	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFHxA	IS	102	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C3-HFPO-DA	IS	106	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C4-PFHpA	IS	101	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C3-PFHxS	IS	113	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-6:2 FTS	IS	102	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFOA	IS	103	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C5-PFNA	IS	102	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C8-PFOA	IS	75.9	10 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C8-PFOS	IS	103	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFDA	IS	97.1	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-8:2 FTS	IS	87.6	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d3-MeFOSAA	IS	92.9	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d5-EtFOSAA	IS	92.8	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFUnA	IS	85.0	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFDoA	IS	87.2	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d3-MeFOSA	IS	38.0	10 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
13C2-PFTeDA	IS	73.3	25 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d5-EtFOSA	IS	37.6	10 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d7-MeFOSE	IS	65.3	10 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1
d9-EtFOSE	IS	65.9	10 - 150		B22H123	25-Aug-22	0.256 L	30-Aug-22 08:08	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Dup-2
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-14	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 00:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	24.7	1.00	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFPeA	2706-90-3	39.8	0.748	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFBS	375-73-5	2.59	0.897	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
4:2 FTS	757124-72-4	<0.941	0.941	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFHxA	307-24-4	50.0	0.807	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFPeS	2706-91-4	3.97	0.812	1.98	Q	B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
HFPO-DA	13252-13-6	<1.55	1.55	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFHpA	375-85-9	46.6	0.926	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
ADONA	919005-14-4	<0.634	0.634	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFHxS	355-46-4	16.8	1.02	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
6:2 FTS	27619-97-2	2.21	1.11	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFOA	335-67-1	211	0.946	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFHpS	375-92-8	8.30	0.589	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFNA	375-95-1	55.3	0.748	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFOSA	754-91-6	35.2	1.08	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFOS	1763-23-1	326	1.12	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
9Cl-PF3ONS	756426-58-1	<1.06	1.06	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFDA	335-76-2	8.45	0.936	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
8:2 FTS	39108-34-4	2.40	1.12	1.98	Q	B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFNS	68259-12-1	<1.14	1.14	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
MeFOSAA	2355-31-9	1.93	0.941	1.98	J	B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
EtFOSAA	2991-50-6	14.2	1.03	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFUnA	2058-94-8	<0.748	0.748	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFDS	335-77-3	<0.753	0.753	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
11Cl-PF3OUdS	763051-92-9	<0.981	0.981	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFDoA	307-55-1	<0.966	0.966	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
MeFOSA	31506-32-8	<2.22	2.22	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFTTrDA	72629-94-8	<0.649	0.649	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFDoS	79780-39-5	<1.40	1.40	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
PFTeDA	376-06-7	<0.807	0.807	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
EtFOSA	4151-50-2	<2.30	2.30	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
MeFOSE	24448-09-7	<1.98	1.98	2.48		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
EtFOSE	1691-99-2	<1.56	1.56	1.98		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	86.3	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C3-PFPeA	IS	98.0	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C3-PFBS	IS	106	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1

Sample ID: Dup-2
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-14	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 00:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	116	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFHxA	IS	104	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C3-HFPO-DA	IS	111	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C4-PFHpA	IS	97.8	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C3-PFHxS	IS	112	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-6:2 FTS	IS	107	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFOA	IS	98.2	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C5-PFNA	IS	99.8	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C8-PFOA	IS	72.3	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C8-PFOS	IS	87.8	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFDA	IS	99.8	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-8:2 FTS	IS	94.0	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d3-MeFOSAA	IS	95.5	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d5-EtFOSAA	IS	93.0	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFUnA	IS	85.9	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFDoA	IS	80.6	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d3-MeFOSA	IS	28.4	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
13C2-PFTeDA	IS	66.8	25 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d5-EtFOSA	IS	29.4	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d7-MeFOSE	IS	65.7	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1
d9-EtFOSE	IS	70.5	10 - 150		B22H123	25-Aug-22	0.252 L	30-Aug-22 08:19	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: EB-1
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-15	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 09:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.997	0.997	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFPeA	2706-90-3	<0.745	0.745	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFBS	375-73-5	<0.893	0.893	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
4:2 FTS	757124-72-4	<0.938	0.938	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFHxA	307-24-4	<0.805	0.805	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFPeS	2706-91-4	<0.810	0.810	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
HFPO-DA	13252-13-6	<1.55	1.55	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFHpA	375-85-9	<0.923	0.923	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
ADONA	919005-14-4	<0.632	0.632	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFHxS	355-46-4	<1.02	1.02	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
6:2 FTS	27619-97-2	<1.11	1.11	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFOA	335-67-1	<0.943	0.943	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFHpS	375-92-8	<0.587	0.587	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFNA	375-95-1	<0.745	0.745	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFOSA	754-91-6	<1.08	1.08	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFOS	1763-23-1	<1.12	1.12	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFDA	335-76-2	<0.933	0.933	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
8:2 FTS	39108-34-4	<1.12	1.12	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFNS	68259-12-1	<1.14	1.14	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
MeFOSAA	2355-31-9	<0.938	0.938	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
EtFOSAA	2991-50-6	<1.03	1.03	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFUnA	2058-94-8	<0.745	0.745	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFDS	335-77-3	<0.750	0.750	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
11Cl-PF3OUdS	763051-92-9	<0.977	0.977	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFDoA	307-55-1	<0.963	0.963	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
MeFOSA	31506-32-8	<2.21	2.21	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFTrDA	72629-94-8	<0.647	0.647	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFDoS	79780-39-5	<1.40	1.40	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
PFTeDA	376-06-7	<0.805	0.805	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
EtFOSA	4151-50-2	<2.30	2.30	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
MeFOSE	24448-09-7	<1.97	1.97	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
EtFOSE	1691-99-2	<1.55	1.55	1.97		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	103	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C3-PFPeA	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C3-PFBS	IS	104	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1

Sample ID: EB-1
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-15	Column:	BEH C18
Project:	GP Broadway	Date Collected:	01-Aug-22 09:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.5	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFHxA	IS	100	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C3-HFPO-DA	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C4-PFHpA	IS	99.1	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C3-PFHxS	IS	103	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-6:2 FTS	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFOA	IS	99.7	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C5-PFNA	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C8-PFOA	IS	65.7	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C8-PFOS	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFDA	IS	103	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-8:2 FTS	IS	89.5	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d3-MeFOSAA	IS	91.1	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d5-EtFOSAA	IS	82.9	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFUnA	IS	92.3	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFDoA	IS	89.2	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d3-MeFOSA	IS	40.7	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
13C2-PFTeDA	IS	81.0	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d5-EtFOSA	IS	41.9	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d7-MeFOSE	IS	56.4	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1
d9-EtFOSE	IS	57.2	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:29	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-20-03

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-17	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 08:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.26	1.01	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFPeA	2706-90-3	8.30	0.752	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFBS	375-73-5	1.97	0.902	1.99	J	B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
4:2 FTS	757124-72-4	<0.947	0.947	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFHxA	307-24-4	7.95	0.812	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFPeS	2706-91-4	<0.817	0.817	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
HFPO-DA	13252-13-6	<1.56	1.56	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFHpA	375-85-9	3.70	0.932	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
ADONA	919005-14-4	<0.638	0.638	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFHxS	355-46-4	1.65	1.03	1.99	J	B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
6:2 FTS	27619-97-2	<1.12	1.12	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFOA	335-67-1	14.0	0.952	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFHpS	375-92-8	<0.593	0.593	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFNA	375-95-1	2.37	0.752	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFOSA	754-91-6	16.2	1.09	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFOS	1763-23-1	97.4	1.13	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
9Cl-PF3ONS	756426-58-1	<1.06	1.06	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFDA	335-76-2	<0.942	0.942	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
8:2 FTS	39108-34-4	<1.13	1.13	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFNS	68259-12-1	<1.15	1.15	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
MeFOSAA	2355-31-9	<0.947	0.947	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
EtFOSAA	2991-50-6	20.1	1.04	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFUnA	2058-94-8	<0.752	0.752	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFDS	335-77-3	<0.757	0.757	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
11Cl-PF3OUdS	763051-92-9	<0.987	0.987	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFDoA	307-55-1	<0.972	0.972	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
MeFOSA	31506-32-8	<2.23	2.23	2.49		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFTrDA	72629-94-8	<0.653	0.653	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFDoS	79780-39-5	<1.41	1.41	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
PFTeDA	376-06-7	<0.812	0.812	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
EtFOSA	4151-50-2	<2.32	2.32	2.49		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
MeFOSE	24448-09-7	<1.99	1.99	2.49		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
EtFOSE	1691-99-2	<1.56	1.56	1.99		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	79.0	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C3-PFPeA	IS	96.2	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C3-PFBS	IS	99.1	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1

Sample ID: MW-20-03
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-17	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 08:00	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	108	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFHxA	IS	96.5	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C3-HFPO-DA	IS	98.9	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C4-PFHpA	IS	98.8	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C3-PFHxS	IS	108	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-6:2 FTS	IS	96.7	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFOA	IS	91.8	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C5-PFNA	IS	94.8	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C8-PFOA	IS	67.9	10 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C8-PFOS	IS	96.0	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFDA	IS	93.6	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-8:2 FTS	IS	80.5	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d3-MeFOSAA	IS	92.2	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d5-EtFOSAA	IS	98.2	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFUnA	IS	85.5	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFDoA	IS	86.0	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d3-MeFOSA	IS	26.8	10 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
13C2-PFTeDA	IS	76.9	25 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d5-EtFOSA	IS	27.5	10 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d7-MeFOSE	IS	66.2	10 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1
d9-EtFOSE	IS	68.4	10 - 150		B22H123	25-Aug-22	0.251 L	30-Aug-22 08:40	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-10
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-18	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 08:35	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	34.0	0.999	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFPeA	2706-90-3	63.9	0.747	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFBS	375-73-5	4.40	0.896	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
4:2 FTS	757124-72-4	<0.940	0.940	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFHxA	307-24-4	79.2	0.806	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFPeS	2706-91-4	2.37	0.811	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
HFPO-DA	13252-13-6	<1.55	1.55	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFHpA	375-85-9	55.5	0.925	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
ADONA	919005-14-4	<0.633	0.633	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFHxS	355-46-4	8.82	1.02	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
6:2 FTS	27619-97-2	<1.11	1.11	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFOA	335-67-1	191	0.945	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFHpS	375-92-8	2.26	0.589	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFNA	375-95-1	20.8	0.747	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFOSA	754-91-6	14.7	1.08	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFOS	1763-23-1	45.7	1.12	1.98	Q	B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFDA	335-76-2	15.3	0.935	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
8:2 FTS	39108-34-4	<1.12	1.12	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFNS	68259-12-1	<1.14	1.14	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
MeFOSAA	2355-31-9	<0.940	0.940	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
EtFOSAA	2991-50-6	<1.03	1.03	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFUnA	2058-94-8	1.13	0.747	1.98	J	B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFDS	335-77-3	<0.752	0.752	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
11Cl-PF3OUdS	763051-92-9	<0.980	0.980	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFDoA	307-55-1	<0.965	0.965	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
MeFOSA	31506-32-8	<2.22	2.22	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFTrDA	72629-94-8	<0.648	0.648	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFDoS	79780-39-5	<1.40	1.40	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
PFTeDA	376-06-7	<0.806	0.806	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
EtFOSA	4151-50-2	<2.30	2.30	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
MeFOSE	24448-09-7	<1.98	1.98	2.47		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
EtFOSE	1691-99-2	<1.55	1.55	1.98		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.6	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C3-PFPeA	IS	107	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C3-PFBS	IS	102	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1

Sample ID: MW-21-10
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-18	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 08:35	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	107	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFHxA	IS	102	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C3-HFPO-DA	IS	105	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C4-PFHpA	IS	98.9	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C3-PFHxS	IS	108	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-6:2 FTS	IS	95.3	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFOA	IS	99.2	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C5-PFNA	IS	104	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C8-PFOA	IS	59.8	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C8-PFOS	IS	101	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFDA	IS	99.8	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-8:2 FTS	IS	89.8	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d3-MeFOSAA	IS	96.3	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d5-EtFOSAA	IS	94.7	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFUnA	IS	87.4	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFDoA	IS	88.5	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d3-MeFOSA	IS	11.4	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
13C2-PFTeDA	IS	83.9	25 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d5-EtFOSA	IS	12.1	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d7-MeFOSE	IS	47.3	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1
d9-EtFOSE	IS	48.8	10 - 150		B22H123	25-Aug-22	0.253 L	30-Aug-22 08:50	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-20-02
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-19	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 09:30	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.964	0.964	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFPeA	2706-90-3	62.8	0.721	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFBS	375-73-5	<0.864	0.864	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
4:2 FTS	757124-72-4	<0.907	0.907	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFHxA	307-24-4	140	0.778	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFPeS	2706-91-4	<0.783	0.783	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
HFPO-DA	13252-13-6	<1.49	1.49	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFHpA	375-85-9	38.0	0.892	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
ADONA	919005-14-4	<0.611	0.611	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFHxS	355-46-4	3.15	0.983	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
6:2 FTS	27619-97-2	<1.07	1.07	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFOA	335-67-1	68.6	0.912	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFHpS	375-92-8	<0.568	0.568	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFNA	375-95-1	4.02	0.721	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFOSA	754-91-6	<1.04	1.04	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFOS	1763-23-1	<1.08	1.08	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFDA	335-76-2	<0.902	0.902	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
8:2 FTS	39108-34-4	<1.08	1.08	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFNS	68259-12-1	<1.10	1.10	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
MeFOSAA	2355-31-9	<0.907	0.907	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
EtFOSAA	2991-50-6	30.0	0.993	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFUnA	2058-94-8	<0.721	0.721	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFDS	335-77-3	<0.725	0.725	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
11Cl-PF3OUdS	763051-92-9	<0.945	0.945	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFDoA	307-55-1	<0.931	0.931	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
MeFOSA	31506-32-8	<2.14	2.14	2.39		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFTrDA	72629-94-8	<0.625	0.625	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFDoS	79780-39-5	<1.35	1.35	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
PFTeDA	376-06-7	<0.778	0.778	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
EtFOSA	4151-50-2	<2.22	2.22	2.39		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
MeFOSE	24448-09-7	<1.91	1.91	2.39		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
EtFOSE	1691-99-2	<1.50	1.50	1.91		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	12.9	25 - 150	H	B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C3-PFPeA	IS	60.4	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C3-PFBS	IS	93.7	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1

Sample ID: MW-20-02
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2208125-19	Column:	BEH C18
Project:	GP Broadway	Date Collected:	03-Aug-22 09:30	Date Received:	04-Aug-22 09:05		
Location:	Groundwater						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.0	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFHxA	IS	91.3	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C3-HFPO-DA	IS	86.0	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C4-PFHpA	IS	103	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C3-PFHxS	IS	105	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-6:2 FTS	IS	128	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFOA	IS	109	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C5-PFNA	IS	106	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C8-PFOA	IS	82.0	10 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C8-PFOS	IS	95.7	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFDA	IS	104	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-8:2 FTS	IS	151	25 - 150	H	B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d3-MeFOSAA	IS	94.5	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d5-EtFOSAA	IS	94.5	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFUnA	IS	90.7	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFDoA	IS	96.7	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d3-MeFOSA	IS	19.9	10 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
13C2-PFTeDA	IS	60.8	25 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d5-EtFOSA	IS	16.5	10 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d7-MeFOSE	IS	40.8	10 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1
d9-EtFOSE	IS	41.1	10 - 150		B22H123	25-Aug-22	0.262 L	02-Sep-22 17:25	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only

Work Order #: 2208125 Temp: 5.0 °C
 Storage ID: 2-13, WR-2 Storage Secured: Yes No

Project ID: GP Broadway PO#: 117-4124237 Sampler: Connor Lauzon
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Relinquished by (printed name and signature) Connor Lauzon Connor Lauzon Date 8-3-22 Time 14:00
 Received by (printed name and signature) Karen A. Hunt Date 08/04/22 Time 8:25

Relinquished by (printed name and signature) _____ Date _____ Time _____
 Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment: _____

Tracking No.: _____

Add Analysis(es) Requested

Container(s)

PFAS by Isotope Dilution

EPA Method 537 (DW only)

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	Add Analysis(es) Requested					OTHER: Please attach analyte list	Comments
							PFOA/PFOS	UCMR3 PFAS List 6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	PFAS by Isotope Dilution		
MW-22-12	8/2/22	13:25	Groundwater	2	P	AQ						X	
MW-21-09	8/2/22	14:20	↓	2	P	AQ						X	
Dup-1	—	—	↓	2	P	AQ						X	
Dup-2	—	—	↓	2	P	AQ						X	
EB-1	8/1/22	09:00	DI	1	P	AQ						X	
FB-1	8/1/22	09:05	DI	1	P	AQ						X	Hold for EB-1 results
MW-20-03	8/3/22	8:00	Groundwater	2	P	AQ						X	
MW-21-10	↓	8:35	↓	2	P	AQ						X	
MW-20-02	↓	9:30	↓	2	P	AQ						X	

Special Instructions/Comment

SEND DOCUMENTATION AND RESULTS TO:

Name: Milee Savale
 Company: Tetra Tech
 Address: 710 Avis Dr.
 City: Ann Arbor State: MI Zip: 48108
 Phone: (810) 923-9076
 Email: michael.savale@tetratech.com

Container Types: P = HDPE, PJ = HDPE Jar
 PY = Polypropylene, O = Other _____

Bottle Preservation Type:
 TZ = Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2208125 Temp: 5.0 °C
 Storage ID: R-13, W22 Storage Secured: Yes No

Project ID: GP Broadway PO#: 117-4124237 Sampler: Connor Lawton
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Connor Lawton Connor Lawton 8-3-22 14:00 Karen Y. Hark Ky 08/24/22 09:05
 Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: _____
 Tracking No.: _____
 Add Analysis(es) Requested
 Container(s) _____
 PFAS by Isotope Dilution
 EPA Method 537 (DW only)
 OTHER: Please attach analyte list
 WISCONSIN 33 PFAS
 PFON/PFOS UCMR3 PFAS List: 6
 537.1 List of 14
 537.1 List of 18

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFON/PFOS	UCMR3 PFAS List: 6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	PFAS by Isotope Dilution	EPA Method 537 (DW only)	Comments
MW-21-04	8/1/22	09:35	Groundwater	2	P	AQ					X			
MW-22-13		10:40		2	P	AQ					X			
MW-22-14		11:45		2	P	AQ					X			
MW-21-06		13:15		2	P	AQ					X			
MW-21-08		14:45		2	P	AQ					X			
MW-21-11	8/2/22	08:00		2	P	AQ					X			
GP-02		09:10		2	P	AQ					X			
MW-21-07		09:55		2	P	AQ					X			
MW-22-15		10:40		2	P	AQ					X			
MW-21-05		11:45		2	P	AQ					X			

Special Instructions/Comment _____

SEND DOCUMENTATION AND RESULTS TO:

Name: Mike Savate
 Company: Tetra Tech
 Address: 710 Avis Dr.
 City: Ann Arbor State: MI Zip: 48108
 Phone: (810) 923-8076
 Email: Michael.savate@tetratech.com

Container Types: P = HDPE, PJ = HDPE Jar Bottle Preservation Type: _____
 PY = Polypropylene, O = Other _____ TZ = Trizma: _____
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2208/25 TAT STL

Samples Arrival:	Date/Time <u>08/04/22 09:05</u>		Initials: <u>W</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>N12</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
Temp °C: <u>5.1</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IL-3</u>			
Temp °C: <u>5.0</u> (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>/</u> Trk # <u>2763 4994 4389</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time <u>08/10/22 15:47</u>		Initials: <u>W</u>		Location: <u>WR-2</u> <u>R-13</u> <u>WR-2</u>		
	Shelf/Rack: <u>A-3</u> <u>F-6</u>						
COC Anomaly/Sample Acceptance Form completed?						<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2208125

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2208125-01	A MW-21-04	Groundwater	01-Aug-22 09:35	HDPE Bottle, 250 mL	Aqueous	
2208125-01	B MW-21-04	Groundwater	01-Aug-22 09:35	HDPE Bottle, 250 mL	Aqueous	
2208125-02	A MW-22-13	Groundwater	01-Aug-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2208125-02	B MW-22-13	Groundwater	01-Aug-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2208125-03	A MW-22-14	Groundwater	01-Aug-22 11:45	HDPE Bottle, 250 mL	Aqueous	
2208125-03	B MW-22-14	Groundwater	01-Aug-22 11:45	HDPE Bottle, 250 mL	Aqueous	
2208125-04	A MW-21-06	Groundwater	01-Aug-22 13:15	HDPE Bottle, 250 mL	Aqueous	
2208125-04	B MW-21-06	Groundwater	01-Aug-22 13:15	HDPE Bottle, 250 mL	Aqueous	
2208125-05	A MW-21-08	Groundwater	01-Aug-22 14:45	HDPE Bottle, 250 mL	Aqueous	
2208125-05	B MW-21-08	Groundwater	01-Aug-22 14:45	HDPE Bottle, 250 mL	Aqueous	
2208125-06	A MW-21-11	Groundwater	02-Aug-22 08:00	HDPE Bottle, 250 mL	Aqueous	
2208125-06	B MW-21-11	Groundwater	02-Aug-22 08:00	HDPE Bottle, 250 mL	Aqueous	
2208125-07	A GP-02	Groundwater	02-Aug-22 09:10	HDPE Bottle, 250 mL	Aqueous	
2208125-07	B GP-02	Groundwater	02-Aug-22 09:10	HDPE Bottle, 250 mL	Aqueous	
2208125-08	A MW-21-07	Groundwater	02-Aug-22 09:55	HDPE Bottle, 250 mL	Aqueous	
2208125-08	B MW-21-07	Groundwater	02-Aug-22 09:55	HDPE Bottle, 250 mL	Aqueous	
2208125-09	A MW-22-15	Groundwater	02-Aug-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2208125-09	B MW-22-15	Groundwater	02-Aug-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2208125-10	A MW-21-05	Groundwater	02-Aug-22 11:45	HDPE Bottle, 250 mL	Aqueous	
2208125-10	B MW-21-05	Groundwater	02-Aug-22 11:45	HDPE Bottle, 250 mL	Aqueous	
2208125-11	A MW-22-12	Groundwater	02-Aug-22 13:25	HDPE Bottle, 250 mL	Aqueous	
2208125-11	B MW-22-12	Groundwater	02-Aug-22 13:25	HDPE Bottle, 250 mL	Aqueous	
2208125-12	A MW-21-09	Groundwater	02-Aug-22 14:20	HDPE Bottle, 250 mL	Aqueous	
2208125-12	B MW-21-09	Groundwater	02-Aug-22 14:20	HDPE Bottle, 250 mL	Aqueous	
2208125-13	A Dup-1	Groundwater	01-Aug-22 00:00	HDPE Bottle, 250 mL	Aqueous	
2208125-13	B Dup-1	Groundwater	01-Aug-22 00:00	HDPE Bottle, 250 mL	Aqueous	
2208125-14	A Dup-2	Groundwater	01-Aug-22 00:00	HDPE Bottle, 250 mL	Aqueous	
2208125-14	B Dup-2	Groundwater	01-Aug-22 00:00	HDPE Bottle, 250 mL	Aqueous	

2208125-15	A EB-1	<input checked="" type="checkbox"/> [ⓐ]	Groundwater	01-Aug-22 09:00	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-16	A FB-1	<input checked="" type="checkbox"/> [ⓑ]	Groundwater	01-Aug-22 09:05	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-17	A MW-20-03	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 08:00	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-17	B MW-20-03	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 08:00	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-18	A MW-21-10	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 08:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-18	B MW-21-10	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 08:35	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-19	A MW-20-02	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 09:30	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous
2208125-19	B MW-20-02	<input checked="" type="checkbox"/>	Groundwater	03-Aug-22 09:30	<input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: [ⓐ] NO Date/Time present on COC nor Sample Label. Used the earliest date
[ⓑ] NO Backup Bottle

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date: SA 08/11/22