

## Lauridsen, Keld B - DNR

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**From:** Lauridsen, Keld B - DNR  
**Sent:** Wednesday, November 22, 2023 2:01 PM  
**To:** 'Mrotek, Melissa A'  
**Cc:** Beaulieu, Jacquelyn Marie; Savale, Michael; Nobile, Trevor W - DNR  
**Subject:** RE: GP Broadway Mill Expansion - PFAS (BRRTS # 02-05-586429)

Hi Melissa,

Thank you for the PFAS groundwater sampling update. As mentioned previously, hard copies are no longer needed.

Based on a review of the available groundwater sampling results, it is acceptable to move forward with an annual PFAS sampling schedule. Further PFAS groundwater delineation may be needed west of monitoring well MW-22-14 to fully define degree and extent.

Also, it should be noted that further contaminant delineation will likely be needed at some point for PAHs, metals, PCBs, and/or VOCs to meet the requirements in Wisconsin Administrative Code ch. NR716.

Let me know if you would like to discuss anything in more detail.

Hope you have a great Thanksgiving.

-Keld

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**Keld B. Lauridsen**

Phone: (920) 510 8294

Keld.Lauridsen@wisconsin.gov

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**From:** Mrotek, Melissa A <MELISSA.MROTEK@GAPAC.com>  
**Sent:** Friday, November 17, 2023 8:21 AM  
**To:** Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>  
**Cc:** Beaulieu, Jacquelyn Marie <jacquelyn.beaulieu@gapac.com>; Savale, Michael <Michael.Savale@tetrattech.com>  
**Subject:** GP Broadway Mill Expansion - PFAS (BRRTS # 02-05-586429)

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Keld – please see attached GP Green Bay – PFAS Site Investigation Report (BRRTS #: 02-05-586429). This has also been uploaded to the BRRTS Site. Please advise if you will need a hard copy sent.

Thanks,

*Melissa Mrotek*

Georgia-Pacific Continuous Manufacturing Group

Office: 920-438-2233  
Cell: 920-639-1548



**Georgia-Pacific  
Broadway LLC**

1919 S. Broadway  
P.O. Box 19130  
Green Bay, WI 54307-9130  
(920) 435-8821  
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November 16, 2023

**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)  
Site Investigation Summary Report – BRRTS #: 02-05-586429**

Dear Mr. Lauridsen:

Please see attached Site Investigation Summary Report (SISR) as prepared by Tetra Tech Inc. for the Georgia-Pacific Broadway LLC (GP) – PFAS Site Investigation (BRRTS #: 02-05-586429). The summary report documents the groundwater monitoring event that was completed the week of August 7, 2023.

If you have any questions or concerns about the Site Investigation Summary Report or the additional analytical results, please do not hesitate to contact me via email at [melissa.mrotek@gapac.com](mailto: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 Broadway LLC

cc via email: Jackie Beaulieu (GP), Mike Savale (Tetra Tech)  
Enclosures

November 15, 2023

Ms. Jacquelyn Beaulieu  
 Environmental Program Manager  
 Georgia-Pacific Broadway LLC  
 1919 South Broadway  
 Green Bay, Wisconsin 54307-9130

**RE: 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin**

Dear Ms. Beaulieu,

Tetra Tech completed the 2023 third quarter groundwater polyfluoroalkyl and perfluoroalkyl substances (PFAS) sampling at the Georgia-Pacific Broadway Facility (Site) in Green Bay, Wisconsin (**Figure 1**). This groundwater sampling was conducted on August 9 and 10, 2023, in general accordance with the WDNR-approved work plan, *2022 PFAS Site Investigation Work Plan, January 26, 2022* (Work Plan). This report summarizes the results of the 2023 third-quarter groundwater PFAS sampling and includes a summary of field activities and groundwater analytical results.

**REGULATORY BACKGROUND**

In June 2019, the Wisconsin Department of Health Services (WDHS) developed recommended groundwater standards for two PFAS, perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). The WDHS recommended an Enforcement Standard (ES) of 20 nanograms per liter (ng/L) and a Preventive Action Limit (PAL) of 2 ng/l for both PFOA and PFOS, individually and combined. In November 2020, the WDHS developed recommended groundwater standards for 16 additional PFAS. However, on March 1, 2021, the WDNR removed perfluorooctadecanoic acid (PFODA) from the list of PFAS with WDHS recommended standards. The current WDHS recommended standards for PFAS are summarized in the following table.

PFAS with Assigned WDHS Standards	WDHS Recommended Enforcement Standard	WDHS Recommended Preventive Action Limit
Perfluorooctane sulfonamide (PFOSA)	20 ng/L	2 ng/L
Hexafluoropropylene oxide dimer acid (HPFO-DA)	300 ng/L	30 ng/L
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	20 ng/L	2 ng/L
Perfluorobutanoic acid (PFBA)	10,000 ng/L	2,000 ng/L
Perfluorobutanesulfonic acid (PFBS)	450,000 ng/L	90,000 ng/L
Perfluorododecanoic acid (PFDoA)	500 ng/L	100 ng/L
Perfluorohexanoic acid (PFHxA)	150,000 ng/L	30,000 ng/L
Perfluorooctane sulfonic acid (PFOS)	20 ng/L	2 ng/L
Perfluorooctanoic acid (PFOA)	20 ng/L	2 ng/L
Perfluorotetradecanoic acid (PFTeA)	10,000 ng/L	2,000 ng/L

PFAS with Assigned WDHS Standards (continued)	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit
Perfluoroundecanoic acid (PFUnA)	3,000 ng/L	600 ng/L
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	3,000 ng/L	600 ng/L
Perfluorohexanesulfonic acid (PFHxS)	40 ng/L	4 ng/L
Perfluorononanoic acid (PFNA)	30 ng/L	3 ng/L
Perfluorodecanoic acid (PFDA)	300 ng/L	60 ng/L
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA)	20 ng/L	2 ng/L
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	20 ng/L	2 ng/L

For PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA (collectively these will be called the “select six PFAS”), the WDHS has recommended an ES of 20 ng/L and PAL of 2 ng/L for individual and combined concentrations of these select six PFAS. The current list of 33 PFAS compounds the WDNR expects to be included in PFAS sample analysis is presented on the Wisconsin DNR PFAS List 1.1.21 found in the *Wisconsin DNR PFAS Updates*, dated March 1, 2021.

On August 1, 2022, the WDNR announced new administrative rules for PFAS, setting regulatory standards for drinking water. The drinking water rule included the amendment of Wis Admin. Code chapter NR 809.20 Table I - Drinking Water & Groundwater Quality Health Standards/Advisory Levels to include a maximum concentration level (MCL) for drinking water of 70 ng/L for PFOS and PFOA, individually and combined. Currently, there are no enforceable groundwater standards for PFAS in Wisconsin. At the request of the WDNR, this report compares the 2023 third-quarter groundwater PFAS results to the WDHS recommended standards for groundwater.

## GROUNDWATER LEVEL MEASUREMENT

Prior to groundwater sampling, the static water level was measured at the 14 monitoring wells associated with the Site PFAS investigation. Field personnel gauged depth-to-water with a water-level interface probe accurate to 0.01 feet. Measurements were subtracted from top-of-casing elevations for each well to obtain groundwater surface elevations, provided in **Table 1** and depicted in **Figure 2**. Note, the groundwater elevation measured at monitoring well MW-21-05, which is installed in a former clay-lined wastewater lagoon that is not hydrologically connected to the surrounding water table, was not included when creating the **Figure 2** groundwater contours. Review of **Figure 2** indicates that groundwater flow was to the southeast towards the Fox River with a southern flow component in the southern portion of the Site and a groundwater depression east of the center of the Site, consistent with previous assessments.

## GROUNDWATER SAMPLING AND ANALYTICAL METHODS

On August 9 and 10, 2023, Tetra Tech conducted the 2023 third quarter PFAS groundwater sampling. Groundwater samples were collected from the 14 monitoring wells associated with the Site PFAS investigation. In 2022, a well not associated with the Site PFAS investigation, monitoring well GP-02, was sampled to delineate PFAS groundwater concentrations in the northwestern portion of the Site. Monitoring well GP-02 was abandoned prior to the 2023 third quarter PFAS sampling.

Groundwater samples were collected from the monitoring wells using low-flow techniques. Groundwater was purged using a peristaltic pump until a stabilized water level and stabilized field parameters were achieved. Field parameters including pH, specific conductance, temperature, oxidation-reduction potential

(ORP), dissolved oxygen (DO), and turbidity were measured using a Horiba U-52 multi-parameter water quality meter. The instrument was calibrated according to the manufacturer's specifications prior to sampling. To avoid cross-contamination between wells, new HDPE and silicone tubing were used for each monitoring well. The water quality parameters were collected at three-minute intervals until all parameters had stabilized for three consecutive readings and were within the following limits:

- pH (0.1 unit)
- Specific conductance (3%)
- Temperature (3%)
- DO (10% mg/L)
- ORP (10 millivolts)
- Turbidity (10%)

A stabilized drawdown of 0.3 feet or less was achieved prior to sample collection. Groundwater monitoring field data are included in **Table 1**.

Following stabilization, groundwater samples were collected directly into clean, pre-labeled, laboratory-provided HDPE containers and placed into an ice-packed cooler. Samples were shipped to Enthalpy Analytical Laboratory (Enthalpy) and analyzed for the list of 33 PFAS presented in the *WDNR PFAS Update*, dated March 1, 2021, via a modified EPA Method 537. The laboratory analytical report for the groundwater PFAS samples is included as **Attachment 1**.

#### **QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SAMPLES**

QA/QC samples were collected during groundwater sampling to assure PFAS contamination was not introduced to the samples from the sample collection equipment or the environment. QA/QC samples are also used to assess the accuracy and reliability of concentration results. QA/QC sample collection methodology is provided below:

- Groundwater duplicate field samples were collected concurrently with the MW-21-03 and MW-22-15 groundwater samples.
- One equipment rinsate sample was collected during groundwater sampling activities. Reusable sampling equipment was decontaminated before and after each use. Following decontamination, laboratory-provided reagent-free water was poured over non-disposable equipment (water level meter) and was run through and over disposable equipment (tubing and nitrile gloves). The rinsate was collected into laboratory-supplied containers.
- One field blank sample was collected by pouring laboratory-provided reagent-free water into laboratory-supplied containers.

The QA/QC samples were shipped to Enthalpy and analyzed for PFAS via a modified EPA Method 537 for the list of 33 PFAS presented in the *WDNR PFAS Update*, dated March 1, 2021. The laboratory analytical report which includes the results for the QA/QC samples is included as **Attachment 1**.

#### **GROUNDWATER ANALYTICAL RESULTS**

In the absence of PFAS regulatory standards for groundwater and at the request of the WDNR, the 2023 third-quarter groundwater analytical results are compared to the WDHS-recommended ESs and PALs. A summary of the August 2023 PFAS groundwater sampling results is presented in **Table 2** and PFAS detections that exceed the WDHS recommended ESs and PALs are posted in **Figure 3**. The laboratory analytical report for groundwater samples is provided in **Attachment 1**.

Review of the 2023 third-quarter groundwater PFAS analytical results indicates the following:

- PFAS were not detected above the method detection limit in monitoring well MW-22-13.
- PFAS were detected above the WDHS recommended ESs and PALs in all monitoring wells except MW-21-04 and MW-22-13.
- Duplicate groundwater samples from MW-21-03 and MW-22-15 were analyzed. The results were within an acceptable percent difference, except the MW-22-15 PFOSA result. PFOSA was detected at 14.2 ng/L and 42.0 ng/L in MW-22-15 and the MW-22-15 duplicate samples, respectively.
- No PFAS were detected in the field blank or the equipment rinsate blank.

## PFAS SUMMARY AND CONCLUSIONS

Between June 2020 and August 2023, as part of the Site PFAS investigation, GP installed sixteen monitoring wells, analyzed 13 soil samples, completed six groundwater monitoring events, and collected samples from the aeration basins and stormwater retention pond.

Soil samples were collected from soil cores recovered at monitoring well installation locations. The soil-core samples were collected from the vadose zone, at a minimum of two feet above the perceived water table to avoid impacts from seasonal groundwater fluctuations. None of the PFAS soil results exceed an established RCL. A summary of soil PFAS results associated with the Site PFAS investigation was provided in the *Investigation Summary Report: August 2022 PFAS Groundwater Sampling and May-June 2022 Soil Sampling for Excavations*, dated November 9, 2022.

PFAS impacts in groundwater have been well characterized at the Site. The highest PFAS groundwater concentrations observed are near or downgradient of the Site wastewater treatment operations and wastewater piping. Review of **Table 3**, which provides a comparison of the April 2021, September 2021, May 2022, August 2022, and August 2023 analytical results, indicates that PFAS groundwater concentrations continue to be stable.

Current and previous groundwater analytical results indicate that the Site groundwater PFAS concentrations have been successfully delineated below the WDHS recommended ESs, as depicted in **Figure 3**. To the north, groundwater PFAS results from monitoring wells MW-20-01 (abandoned in December 2021) and GP-02 (abandoned in 2023) indicate that PFAS concentrations are below the recommended ESs. Groundwater results from monitoring wells GP-02, MW-21-04, and MW-22-13 indicate that the western delineation has been achieved. The August 2023 groundwater PFAS results for MW-21-04 show PFAS concentrations below recommended PALs and no PFAS detected at MW-22-13. Review of the soil lithological data obtained from soil boring SB-22-03, installed approximately 250 feet northwest of MW-22-14, indicates that a continuous interval of clay is present from 0 to 30 feet below the ground surface northwest of monitoring well MW-22-14. This implies that the water-bearing interval of gravel and sand encountered during the installation of MW-22-14 does not continue to the west and that PFAS groundwater impacts are likely confined within the Site boundaries to the southeast. Soil boring logs associated with SB-22-03 and MW-22-14 were provided in the *2022 PFAS Site Investigation Summary Report*, dated August 18, 2022.

GP proposes to continue annual groundwater PFAS monitoring. The next sampling event will be conducted in the third quarter of 2024, approximately one year after the August 2023 PFAS groundwater sampling event.

Tetra Tech appreciates the opportunity to provide our services to GP. If you have any questions regarding the information herein, please contact Michael Savale at 810.923.8076 or [michael.savale@tetrattech.com](mailto:michael.savale@tetrattech.com).

Sincerely,



Michael Savale  
Associate Geologist



Chris Bonniwell, Ph.D., LPG  
Midwest Principal Account Manager

Table 1 - Groundwater Monitoring Field Data

Table 2 - Groundwater Analytical Results

Table 3 - Groundwater Analytical Results Comparison

Figure 1 - Site Location Map

Figure 2 - August 2023 Groundwater Elevations

Figure 3 - August 2023 Groundwater Analytical Results

Attachment 1 – Groundwater Analytical Report



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## TABLES

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**Table 1**  
**Groundwater Monitoring Field Data**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia Pacific Broadway Facility  
 Green Bay, Wisconsin

Well ID	Sample Date	Temp (°C)	Specific Conductance (mS/cm)	DO (mg/L)	pH (S.U.)	ORP (mV)	Turb (NTU)	Approximate Pump Rate (mL/min)	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)
		Parameter Stabilization Criteria									
		3%	3%	10%	0.1	10 mV	10%				
MW-20-02	8/9/2023	21.50	63.8	0.00	10.05	-256	0.0	100	586.60	5.55	581.05
MW-20-03	8/9/2023	21.84	1.37	0.00	7.19	-161	0.0	100	581.13	3.03	578.10
MW-21-04	8/9/2023	21.37	4.67	0.00	7.02	23	2.5	100	600.72	8.91	591.81
MW-21-05	8/9/2023	20.99	2.73	0.00	7.86	-93	0.0	100	595.71	5.49	590.22
MW-21-06	8/10/2023	27.19	1.91	0.00	7.46	-180	10.8	100	585.83	3.92	581.91
MW-21-07	8/9/2023	22.81	1.90	0.00	6.91	-137	0.0	100	583.44	3.75	579.69
MW-21-08	8/10/2023	21.75	2.47	0.00	7.74	-84	0.0	100	584.97	6.76	578.21
MW-21-09	8/10/2023	24.06	2.60	0.00	6.47	-69	0.0	100	588.54	13.36	575.18
MW-21-10	8/9/2023	27.16	2.23	0.00	7.84	-195	0.0	100	587.26	6.66	580.60
MW-21-11	8/9/2023	16.19	2.03	2.03	9.84	-188	5.6	100	586.68	7.02	579.66
MW-22-12	8/10/2023	27.59	1.61	0.00	6.81	-132	3.6	100	590.05	9.57	580.48
MW-22-13	8/9/2023	19.52	1.19	0.00	7.31	-16	0.0	100	599.23	5.10	594.13
MW-22-14	8/10/2023	17.67	1.55	0.00	7.58	-131	0.0	100	587.84	8.90	578.94
MW-22-15	8/10/2023	20.91	3.31	0.00	6.85	-138	0.0	100	586.85	4.06	582.79

**Notes:**

Temp (°C) = Temperature in degrees Celsius  
 pH (S.U.) = pH represented in pH units  
 Specific Conductance (mS/cm) = Conductivity represented in microsiemens per centimeter  
 ORP (mV) = Oxidation reduction potential represented in millivolts  
 DO (mg/L) = Dissolved oxygen represented in milligrams per liter  
 Turb (NTU) = Turbidity represented in nephelometric turbidity units  
 mL/min = milliliters per minute  
 ft amsl = feet above mean sea level  
 ft below TOC = feet below the top of well casing

**Table 2**  
**Groundwater Analytical Results**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date															
					MW-20-02	MW-20-03	DUP-01 (MW-21-03)	MW-21-04	MW-21-05	MW-21-06	MW-21-07	MW-21-08	MW-21-09	MW-21-10	MW-21-11	MW-22-12	MW-22-13	MW-22-14	MW-22-15	DUP-02 (MW-22-15)
					8/9/23	8/9/23	8/9/23	8/9/23	8/9/23	8/10/23	8/9/23	8/10/23	8/10/23	8/10/23	8/9/23	8/9/23	8/10/23	8/10/23	8/10/23	8/10/23
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>																				
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	<1.29	8.53	7.81	9.17	36.5	39.7	26.9	27.3	22.1	18.9	<1.34	21.6	<1.31	34.5	<1.34	<1.32
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	66.7	7.57	10.7	8.96	64.3	63.6	41.2	55.6	25.4	35.1	15.7	23.4	<1.28	57.0	14.9	14.3
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	145	14.1	12.2	4.54	139	63.9	47.6	59.8	37.7	43.7	35.2	36.4	<1.24	65.6	14.3	13.1
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	42.9	6.71	6.52	1.26 J	105	70.8	45.0	49.4	37.0	40.1	19.7	33.1	<0.864	93.6	11.7	10.5
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	73.9	27.0	27.3	1.75 J	510	498	178	214	193	117	98.4	188	<1.10	687	43.6	46.4
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	4.78 Q	2.60 Q	2.82 Q	<1.22	68.1	129	44.3	31.5	16.1	13.7	6.93	5.89	<1.23	116	2.48 Q	2.32 Q
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	<1.17	1.25 J, Q	1.42 J, Q	<1.19	11.2	35.7	5.75	3.63	1.76 J	16.8	11.7	<1.22	<1.20	18.8	1.38 J	<1.21
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	3,000	600	<1.04	<1.09	<1.08	<1.05	<1.08	<1.07	<1.08	<1.08	<1.07	1.64 J	2.11	<1.08	<1.06	<1.10	<1.08	<1.07
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<1.29	<1.36	<1.34	<1.30	<1.34	<1.33	<1.34	<1.34	<1.33	<1.38	<1.34	<1.35	<1.31	<1.37	<1.34	<1.33
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.35	<1.43	<1.41	<1.37	<1.40	<1.40	<1.40	<1.41	<1.39	<1.45	<1.41	<1.41	<1.38	<1.43	<1.41	<1.39
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	10,000	2,000	<1.12	<1.18	<1.16	<1.13	<1.16	<1.15	<1.16	<1.16	<1.15	<1.19	<1.16	<1.16	<1.14	<1.18	<1.16	<1.15
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>																				
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	2.33	2.88 Q	3.28	1.66 J	6.76	8.92	4.44 Q	5.76	<1.14	3.00	3.36	4.80	<1.13	7.37	<1.15	<1.14
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	<1.68	<1.77	<1.75	<1.70	5.66	6.09	2.67	4.48	<1.73	<1.80	<1.75	5.85	<1.71	5.38	<1.75	<1.73
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	<1.38	2.87	2.59	<1.39	30.1	33.8	17.4	19.6 Q	22.9	4.23 Q	6.95	24.1	<1.40	47.6	5.40 Q	3.19
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<1.59	<1.67	<1.65	<1.60	17	20.1	4.29	5.40 Q	5.70 Q	<1.69	<1.65	2.49	<1.62	34.4	<1.65	<1.63
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	4.70	68.4	74.2	<1.82	1,030	1,990 D	221	228	264	19.1	79.8	160	<1.84	2,280 D	37.8	40.8
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.60	<1.68	<1.66	<1.61	<1.65	2.85 Q	<1.66	<1.66	<1.64	<1.70	<1.66	<1.66	<1.62	<1.69	<1.66	<1.64
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<1.50	<1.58	<1.56	<1.51	<1.55	<1.55	<1.55	<1.56	<1.54	<1.60	<1.56	<1.56	<1.53	<1.59	<1.56	<1.54
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.68	<1.77	<1.74	<1.70	<1.74	<1.73	<1.74	<1.74	<1.72	<1.79	<1.74	<1.75	<1.71	<1.78	<1.75	<1.73
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>																				
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	<1.68	14.0 Q	12.6 Q	<1.70	75.9	130	48.7 Q	6.40 Q	55.8	14.2 Q	12.6 Q	36.7 Q	<1.71	62.4 Q	14.2 Q	42.0 Q
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<2.91	<3.07	<3.02	<2.94	<3.02	<3.00	<3.02	<3.02	<2.99	<3.11	<3.02	<3.03	<2.96	<3.09	<3.03	<2.99
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/L	20	2	<2.38	<2.51	<2.47	<2.41	<2.47	<2.46	<2.47	<2.47	<2.45	<2.54	<2.47	<2.48	<2.43	<2.52	<2.48	<2.45
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	<1.34	<1.41	<1.39	<1.35	6.08	24.8	<1.39	<1.39	<1.38	<1.43	1.88 J, Q	<1.40	<1.36	14.7	<1.39	<1.38
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/L	20	2	26.8	12.0	9.02	<1.31	22.0	158	10.9	4.28	4.45	<1.38	10.7	<1.35	<1.32	87.3	8.45	7.76
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<2.28	<2.40	<2.36	<2.30	<2.36	<2.35	<2.36	<2.36	<2.34	<2.43	<2.36	<2.37	<2.32	<2.41	<2.37	<2.34
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<2.05	<2.16	<2.13	<2.07	<2.12	<2.11	<2.12	<2.13	<2.10	<2.19	<2.13	<2.13	<2.08	<2.17	<2.13	<2.10
<b>Fluorotelomer Substances (FTS)</b>																				
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.27	<1.34	<1.31	<1.28	<1.31	<1.31	<1.31	<1.32	<1.30	<1.35	<1.32	<1.32	<1.29	<1.34	<1.32	<1.30
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	<1.41	<1.49	<1.47	<1.43	5.52	2.38	1.97 J	<1.47	<1.45	<1.51	2.56	<1.47	<1.44	1.96 J	<1.47	<1.45
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<1.66	<1.75	<1.73	<1.68	6.39	4.39	1.96 J	<1.73	<1.71	<1.78	3.46	<1.73	<1.69	4.58	<1.73	<1.71
<b>Replacement Chemicals</b>																				
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<1.89	<1.99	<1.96	<1.91	<1.96	<1.95	<1.96	<1.97	<1.94	<2.02	<1.97	<1.97	<1.93	<2.01	<1.97	<1.94
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<1.06	<1.12	<1.10	<1.07	<1.10	<1.10	<1.10	<1.10	<1.09	<1.13	<1.10	<1.11	<1.08	<1.13	<1.11	<1.09
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/L	--	--	<1.46	<1.53	<1.51	<1.47	<1.51	<1.50	<1.51	<1.51	<1.50	<1.55	<1.51	<1.52	<1.48	<1.54	<1.52	<1.50
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/L	--	--	<1.16	<1.22	<1.20	<1.17	<1.20	<1.20	<1.20	<1.20	<1.19	<1.24	<1.20	<1.21	<1.18	<1.23	<1.21	<1.19
<b>Total combined PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOA and PFOS</b>		ng/L	20	2	105.4	121.4	137.1	1.75	1,638	2,776	459	453	517	150	201.5	385	ND	3,117	104.1	137.0

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
 ND = Not Detected above the Method Detection Limit.  
 Bold = value exceeds the Method Detection Limit  
 Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.  
 \* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA.

**Table 3**  
**Groundwater Analytical Results Comparison**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date											
					MW-20-01	MW-20-01	MW-20-02	MW-20-02	MW-20-02	MW-20-02	MW-20-02	MW-20-03	MW-20-03	MW-20-03	MW-20-03	MW-20-03
					4/16/21	9/22/21	4/14/21	9/21/21	5/3/22	8/3/22	8/9/23	4/14/21	9/21/21	5/2/22	8/3/22	8/9/23
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>																
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	2.12	2.79	<0.703	<0.720	<0.993	<0.964	<1.29	5.75	7.86	5.96	7.26	8.53
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	<0.958	<1.01	<0.963	87.6	61.2	62.8	66.7	5.27	10.7	6.79	8.30	7.57
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	<1.10	<1.16	142	141	148	140	145	5.26	9.18 Q	7.47	7.95	14.1
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	<8.65	<0.908	39.8	38.4	37.4	38.0	42.9	2.06	4.33	3.62	3.70	6.71
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	1.73 J	1.90 J	74.9	69.0	75.8	68.6	73.9	10.8	17.3	16.6	14.0	27.0
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	<0.552	<0.580	3.58	4.07	5.09	4.02	4.78 Q	1.98 J	3.45	2.78	2.37	2.60 Q
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	<0.880	<0.932	<0.884	<0.906	<0.929	<0.902	<1.17	<0.914	1.53 J, Q	1.49 J	<0.942	1.25 J, Q
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	--	--	<1.31	<1.38	<1.32	<1.35	<0.743	<0.721	<1.04	<1.37	<1.36	<0.756	<0.752	<1.09
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.767	<0.805	<0.771	<0.790	<0.959	<0.931	<1.29	<0.797	<0.794	<0.976	<0.972	<1.36
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.08	<1.13	<1.09	<1.11	<0.644	<0.625	<1.35	<1.12	<1.12	<0.656	<0.653	<1.43
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	<0.804	0.84	<0.801	<0.821	<0.802	<0.778	<1.12	<0.828	<0.824	<0.816	<0.812	<1.18
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>																
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	<0.753	<0.790	<0.757	<0.775	2.61 Q	<0.864	2.33	0.963 J	<0.779	1.99 J	1.97 J	2.88 Q
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	<0.885	<0.928	<0.889	<0.911	<0.806	<0.783	<1.68	<0.919	<0.915	<0.821	<0.817	<1.77
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	<1.05	<1.10	2.68	1.82 J	5.14	3.15	<1.38	1.40 J	<1.09	1.78 J	1.65 J	2.87
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<2.41	<2.53	<2.43	<2.49	<0.585	<0.568	<1.59	<2.51	<2.50	1.01 J	<0.593	<1.67
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	<1.04	<1.09	4.62	5.17 Q	7.47 Q	<1.08	4.70	75.1	152	89.6	97.4	68.4
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.38	<1.45	<1.39	<1.42	<1.14	<1.10	<1.60	<1.43	<1.43	<1.16	<1.15	<1.68
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<2.64	<2.77	<2.66	<2.72	<0.747	<0.725	<1.50	<2.75	<2.74	<0.761	<0.757	<1.58
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.55	<1.63	<1.56	<1.60	<1.39	<1.35	<1.68	<1.61	<1.61	<1.42	<1.41	<1.77
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>																
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	1.89 J,Q	1.79 J,Q	<1.33	<1.36	<1.07	<1.04	<1.68	9.53	9.20	9.99	16.2	14.0 Q
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<6.70	<7.03	<6.73	<6.90	<2.20	<2.14	<2.91	<6.96	<6.93	<2.24	<2.23	<3.07
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/L	20	2	<7.14	<7.49	<7.17	<7.35	<2.29	<2.22	<2.38	<7.41	<7.38	<2.33	<2.32	<2.51
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	<0.924	<0.969	<0.929	<0.951	<0.934	<0.907	<1.34	<0.960	<0.956	<0.951	<0.947	<1.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/L	20	2	<2.48	<2.60	22.7	25.2	30.8	30.0	26.8	39.0	52.4	14.7	20.1	12.0
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<7.82	<8.21	<7.86	<8.05	<1.97	<1.91	<2.28	<8.13	<8.09	<2.00	<1.99	<2.40
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<5.42	<5.69	<5.45	<5.59	<1.54	<1.50	<2.05	<5.64	<5.61	<1.57	<1.56	<2.16
<b>Fluorotelomer Substances (FTS)</b>																
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.06	<1.11	<1.06	<1.09	<0.934	<0.907	<1.27	<1.10	<1.09	<0.951	<0.947	<1.34
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	<0.943	<0.990	<0.948	<0.972	<1.11	<1.07	<1.41	<0.980	<0.976	5.76 Q	<1.12	<1.49
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<2.19	<2.30	<2.20	<2.26	<1.12	<1.08	<1.66	<2.28	<2.27	<1.14	<1.13	<1.75
<b>Replacement Chemicals</b>																
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<0.606	<0.636	<0.609	<0.624	<1.54	<1.49	<1.89	<0.630	<0.627	<1.57	<1.56	<1.99
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.831	<0.872	<0.835	<0.856	<0.629	<0.611	<1.06	<0.863	<0.860	<0.641	<0.638	<1.12
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/L	--	--	<0.811	<0.851	<0.816	<0.836	<1.05	<1.02	<1.46	<0.843	<0.839	<1.07	<1.06	<1.53
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUDS)	763051-92-9	ng/L	--	--	<0.417	<0.437	<0.419	<0.429	<0.974	<0.945	<1.16	<0.433	<0.431	<0.991	<0.987	<1.22
<b>Total combined PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOA and PFOS</b>		ng/L	20	2	3.62	3.69	102.2	99.4	114.1	98.6	105.4	134.4	231	130.9	147.7	121.4

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
**Bold** = value exceeds the Method Detection Limit  
 Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.  
 \* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA.

**Table 3**  
**Groundwater Analytical Results Comparison**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date														
					MW-21-04	MW-21-04	MW-21-04	MW-21-04	MW-21-04	MW-21-05	MW-21-05	MW-21-05	MW-21-05	MW-21-05	MW-21-06	MW-21-06	MW-21-06	MW-21-06	
					4/15/21	9/22/21	5/4/22	8/1/22	8/9/23	4/15/21	9/22/21	5/3/22	8/2/22	8/9/23	4/15/21	9/22/21	5/3/22	8/1/22	8/10/23
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>																			
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	4.51	6.47	7.48	7.96	9.17	25.7	33.4	31.1	31.2	36.5	29.3	31.7	27.2	34.9	39.7
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	4.01	6.18	6.57	6.43	8.96	56.7	54.8	48.3	57.4	64.3	52.6	56.7	43.3	64.6	63.6
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	2.96 Q	3.31 Q	2.94	3.69	4.54	115	123	120	131	139	58.2	61.9	49.2	66.3	63.9
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	<0.861	<0.889	<0.948	<0.919	1.26 J	81.0	101	88.5	99.2	105	84.5	65.9	92.0	87.4	70.8
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	<1.06	<1.09	<0.968	0.973 J	1.75 J	346	378	368	403	510	644	347	1160	512	498
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	<0.550	<0.567	<0.765	<0.742	<1.22	53.7	32.3	40.6	48.7	68.1	113	52.4	60.0	108	129
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	<0.876	<0.904	<0.958	<0.929	<1.19	7.34	5.87	7.73	8.64	11.2	37.0	7.90	20.7	40.7	35.7
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	--	--	<1.31	<1.35	<0.765	<0.742	<1.05	<1.36	<1.38	<0.751	<0.786	<1.08	<1.31	<1.42	<0.752	<0.767	<1.07
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.764	<0.788	<0.988	<0.958	<1.30	<0.796	<0.807	<0.970	<1.01	<1.34	<0.767	<0.828	<0.971	<0.990	<1.33
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.08	<1.11	<0.664	<0.644	<1.37	<1.12	<1.14	<0.652	<0.682	<1.40	<1.08	<1.17	<0.653	<0.665	<1.40
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	<0.793	<0.818	<0.826	<0.801	<1.13	<0.826	<0.837	<0.811	<0.848	<1.16	<0.796	<0.860	<0.812	<0.828	<1.15
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>																			
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	1.45 J,Q	1.32 J	1.74 J	1.59 J	1.66 J	3.84	4.30	5.21	4.61	6.76	4.78	5.31	6.28	7.69	8.92
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	<0.881	<0.909	<0.831	<0.806	<1.70	4.97	3.70	4.72	6.07	5.66	6.32	4.46	9.41	6.58	6.09
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	<1.05	<1.08	<1.04	<1.01	<1.39	26.7	20.4	24.3	26.4	30.1	31.7	22.7	36.4	30.9	33.8
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<2.40	<2.48	<0.603	<0.585	<1.60	10.1	7.07	10.2	10.3	17.0	19.0	6.48	14.1	20.5	20.1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	<1.04	<1.07	<1.15	<1.11	<1.82	958	411	644	758	1,030	2,220 D	346	1270	2280 D	1990 D
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.37	<1.42	<1.17	<1.14	<1.61	<1.43	<1.45	<1.15	<1.20	<1.65	<1.38	<1.49	<1.15	<1.17	2.85 Q
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<2.63	<2.72	<0.770	<0.747	<1.51	<2.74	<2.78	<0.756	<0.791	<1.55	<2.64	<2.85	<0.757	<0.772	<1.55
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.55	<1.60	<1.43	<1.39	<1.70	<1.61	<1.63	<1.41	<1.47	<1.74	<1.55	<1.68	<1.41	<1.44	<1.73
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>																			
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	6.17	<1.36	1.50 J,Q	<1.07	<1.70	62.7	37.0	41.2	57.0	75.9	90.2	7.46	43.8	83.7	130
N-methyl perfluorooctane sulfonamide (NMeFOA)	31506-32-8	ng/L	--	--	<6.67	<6.88	<2.27	<2.20	<2.94	<6.94	<7.04	<2.23	<2.33	<3.02	<6.69	<7.23	<2.23	<2.28	<3.00
N-ethyl perfluorooctane sulfonamide (NEFOA)	4151-50-2	ng/L	20	2	<0.793	<7.33	<2.36	<2.29	<2.41	<7.4	<7.50	<2.31	<2.42	<2.47	<7.13	<7.70	<2.32	<2.36	<2.46
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOAA)	2355-31-9	ng/L	--	--	<0.92	<0.949	<0.963	<0.934	<1.35	2.65	2.26	2.88 Q	5.71	6.08	20.2	4.82	6.88	18.0	24.8
N-ethyl perfluorooctane sulfonamidoacetic acid (NEFOAA)	2991-50-6	ng/L	20	2	<2.47	<2.55	<1.05	<1.02	<1.31	7.37	7.82	11.1	15.5	22.0	70.1	30.5	41.4	92.4	158
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<7.79	<8.03	<2.03	<1.97	<2.30	<8.11	<8.22	<1.99	<2.08	<2.36	<7.82	<8.44	<1.99	<2.03	<2.35
N-ethyl perfluorooctane sulfonamidoethanol (NEFOSE)	1691-99-2	ng/L	20	2	<5.4	<5.57	<1.59	<1.54	<2.07	<5.62	<5.70	<1.56	<1.63	<2.12	<5.42	<5.82	<1.56	<1.59	<2.11
<b>Fluorotelomer Substances (FTS)</b>																			
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.05	<1.08	<0.963	<0.934	<1.28	<1.09	<1.11	<0.945	<0.988	<1.31	<1.06	<1.14	<0.946	<0.965	<1.31
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	<0.939	<0.969	<1.14	<1.11	<1.43	7.57	6.81	6.32	9.37	5.52	3.39	<1.02	3.81	1.99 J	2.38
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<0.218	<2.25	<1.15	<1.12	<1.68	9.66	4.05	5.93	6.68	6.39	5.69	<2.36	2.42	5.50	4.39
<b>Replacement Chemicals</b>																			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<0.604	<0.622	<1.59	<1.54	<1.91	<0.628	<0.637	<1.56	<1.63	<1.96	<0.606	<0.654	<1.56	<1.59	<1.95
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.827	<0.853	<0.649	<0.629	<1.07	<0.861	<0.873	<0.637	<0.666	<1.10	<0.831	<0.897	<0.638	<0.650	<1.10
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/L	--	--	<0.808	<0.833	<1.08	<1.05	<1.47	<0.841	<0.853	<1.06	<1.11	<1.51	<0.811	<0.876	<1.06	<1.08	<1.50
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUds)	763051-92-9	ng/L	--	--	<0.415	<0.428	<1.00	<0.973	<1.17	<0.432	<0.438	<0.985	<1.03	<1.20	<0.417	<0.450	<0.986	<1.01	<1.20
<b>Total combined PFOSA, NEtFOSE, NEtFOA, NEtFOAA, PFOA and PFOS</b>		ng/L	20	2	ND	ND	ND	0.97	1.75	1,374	834	1,064	1,234	1,638	3,024	731	2,515	2,968	2,776

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
**Bold** = value exceeds the Method Detection Limit  
 Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.  
 \* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOA, NEtFOAA, PFOS, and PFOA.

**Table 3**  
**Groundwater Analytical Results Comparison**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date														
					MW-21-07	MW-21-07	MW-21-07	MW-21-07	MW-21-07	MW-21-08	MW-21-08	MW-21-08	MW-21-08	MW-21-08	MW-21-09	MW-21-09	MW-21-09	MW-21-09	
					4/15/21	9/21/21	5/3/22	8/2/22	8/9/23	4/15/21	9/21/21	5/2/22	8/1/22	8/10/23	4/15/21	9/20/21	5/2/22	8/2/22	8/10/23
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>																			
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	28.8	25.3	28.7	25.6	26.9	15.4	16.0	13.2	18.6	27.3	11.8	12.2	18.9	16.5	22.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	42.8	43.1	41.5	38.2	41.2	24.9	22.1	15.4	27.3	55.6	20.5	16.3	19.0	20.7	25.4
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	55.1	55.8	53.2	50.7	47.6	25.1	29.7	18.8	38.3	59.8	22.5	22.6	29.2	27.7	37.7
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	48.9	54.4	45.8	46.4	45.0	18.9	24.5	10.7	30.1	49.4	25.8	25.8	28.5	27.1	37.0
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	133	197	201	212	178	109	119	39.5	130	214	164	131	132	132	193
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	27.2	46.5	56.5	57.6	44.3	18.8	16.4	4.93	14.8	31.5	16.4	15.1	11.6	12.3	16.1
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	2.88	5.82	8.14	8.93	5.75	3.66	2.27	1.12 J	2.22	3.63	0.955 J	2.00 J	1.63 J	0.967 J	1.76 J
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	--	--	<1.35	<1.34	<0.747	<0.763	<1.08	<1.33	<1.35	<0.746	1.04 J	<1.08	<1.34	<1.42	<0.768	<0.735	<1.07
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.787	<0.783	<0.965	<0.986	<1.34	<0.774	<0.786	<0.963	<0.956	<1.34	<0.780	<0.827	<0.992	<0.949	<1.33
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.11	<1.10	<0.648	<0.662	<1.40	<1.09	<1.11	<0.647	<0.642	<1.41	<1.10	<1.16	<0.667	<0.638	<1.39
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	<0.817	<0.813	<0.806	<0.824	<1.16	<0.804	<0.816	<0.805	<0.799	<1.16	<0.810	<0.859	<0.829	<0.793	<1.15
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>																			
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	2.94	2.77	3.53	2.84	4.44 Q	3.98	3.73	2.32	3.41	5.76	1.73 J	2.60	3.26	2.28	<1.14
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	2.05	2.00	2.66	3.84	2.67	1.46 J	<0.906	<0.810	1.68 J	4.48	<0.900	<0.953	3.54	4.97 Q	<1.73
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	12.8	20.1	18.5	19.0	17.4	6.30	7.35 Q	2.31	9.46	19.6 Q	11.7	16.8	15.3	16.4	22.9
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<2.48	6.22	6.44	7.13	4.29	2.7 Q	<2.47	1.19 J,Q	2.30	5.40 Q	5.37 Q	4.90	5.06	3.79	5.70 Q
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	97.1	251	301	284	221	170	94.5	32.7	106	228	195	309	205	228	264
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.41	<1.41	<1.14	<1.17	<1.66	<1.39	<1.41	<1.14	<1.13	<1.66	<1.40	<1.49	<1.18	<1.12	<1.64
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<2.71	<2.70	<0.752	<0.768	<1.55	<2.67	<2.71	<0.751	<0.745	<1.56	<2.69	<2.85	<0.774	<0.740	<1.54
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.59	<1.59	<1.40	<1.43	<1.74	<1.57	<1.59	<1.40	<1.39	<1.74	<1.58	<1.68	<1.44	<1.38	<1.72
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>																			
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	11.4	28.1	17.9	40.5	48.7 Q	8.84	3.06	2.57 Q	<1.07	6.40 Q	9.53	29.9	35.2	31.9	55.8
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<6.87	<6.83	<2.22	<2.26	<3.02	<6.75	<6.86	<2.21	<2.20	<3.02	<6.81	<7.22	<2.28	<2.18	<2.99
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/L	20	2	<7.32	<7.28	<2.30	<2.35	<2.47	<7.20	<7.31	<2.30	<2.28	<2.47	<7.26	<7.69	<2.37	<2.26	<2.45
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	<0.947	0.971 J, Q	1.06 J	1.71 J, Q	<1.39	1.31 J	<0.947	<0.939	<0.932	<1.39	<0.939	2.22	<0.967	1.34 J	<1.38
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/L	20	2	5.40	14.0	13.5	13.6	10.9	12.3	<2.54	<1.03	<1.02	4.28	<2.52	7.54 Q	3.60	4.74	4.45
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<8.02	<7.98	<1.98	<2.02	<2.36	<7.89	<8.01	<1.98	<1.96	<2.36	<7.95	<8.43	<2.04	<1.95	<2.34
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<5.56	<5.53	<1.55	<1.59	<2.12	<5.47	<5.56	<1.55	<1.54	<2.13	<5.52	<5.85	<1.60	<1.53	<2.10
<b>Fluorotelomer Substances (FTS)</b>																			
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.08	<1.08	<0.940	<0.960	<1.31	<1.06	<1.08	<0.939	<0.932	<1.32	<1.07	<1.14	<0.967	<0.925	<1.30
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	10.2	1.55 J	3.23	2.33	1.97 J	<0.952	1.40J	<1.11	<1.10	<1.47	3.97	<1.02	8.94	<1.09	<1.45
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<2.25	<2.23	1.26 J	2.05	1.96 J	<2.21	<2.24	<1.12	<1.11	<1.73	<2.23	<2.36	<1.16	<1.10	<1.71
<b>Replacement Chemicals</b>																			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<0.622	<0.618	<1.55	<1.58	<1.96	<0.611	<0.621	<1.55	<1.53	<1.97	<0.616	<0.653	<1.59	<1.52	<1.94
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.852	<0.848	<0.633	<0.647	<1.10	<0.838	<0.851	<0.632	<0.628	<1.10	<0.845	<0.895	<0.651	<0.623	<1.09
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/L	--	--	<0.832	<0.828	<1.05	<1.08	<1.51	<0.818	<0.831	<1.05	<1.04	<1.51	<0.825	<0.874	<1.08	<1.04	<1.50
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUds)	763051-92-9	ng/L	--	--	<0.428	<0.425	<0.980	<1.00	<1.20	<0.421	<0.427	<0.978	<0.971	<1.20	<0.424	<0.449	<1.01	<0.964	<1.19
<b>Total combined PFOSA, NEtFOSE, NEtFOSAA, PFOA and PFOS</b>		ng/L	20	2	236	462	516	510	459	300	217	74.8	236	453	369	477	376	397	517

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
**Blue** = value exceeds the Method Detection Limit

Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.

\* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOSAA, PFOS, and PFOA.



**Table 3**  
**Groundwater Analytical Results Comparison**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date															
					MW-21-10	MW-21-10	MW-21-10	MW-21-10	MW-21-10	MW-21-11	MW-21-11	MW-21-11	MW-21-11	MW-21-11	MW-22-12	MW-22-12	MW-22-12	MW-22-13	MW-22-13	MW-22-13
					4/16/21	9/21/21	5/3/22	8/3/22	8/9/23	4/16/21	9/21/21	5/3/22	8/2/22	8/9/23	5/5/22	8/2/22	8/10/23	5/5/22	8/1/22	8/10/23
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>																				
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	12.9	22.4	44.6	34.0	18.9	<0.704	<0.754	<1.02	<1.02	<1.34	21.4	22.3	21.6	<1.02	<0.989	<1.31
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	47.9	42.4	44.9	63.9	35.1	32.7	26.3	<0.762	5.55	<1.34	26.1	25.2	23.4	<0.760	<0.739	<1.28
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	47.9	53.7	63.4	79.2	43.7	58.3	52.7	56.5	14.1	35.2	36.6	40.4	36.4	<0.820	<0.798	<1.24
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	27.6	63.5	45.9	55.5	40.1	29.3	30.2	36.6	8.79	19.7	35.7	37.1	33.1	<0.941	<0.915	<0.864
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	61.9	417	175	191	117	127	123	186	43.0	98.4	197	179	188	<0.961	<0.935	<1.10
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	14.3	26.9	16.5	20.8	13.7	15.3	12.2	11.8	3.90 Q	6.93	6.02	3.72	5.89	<0.760	<0.739	<1.23
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	13.5	29.6	8.49	15.3	16.8	42.3	31.8	28.4	11.5	11.7	<0.940	<0.951	<1.22	<0.951	<0.925	<1.20
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	--	--	<1.30	3.55	0.868 J	1.13 J	1.64 J	3.66	5.20	5.20	2.80	2.11	<0.751	<0.760	<1.08	<0.760	<0.739	<1.06
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.759	<0.765	<0.989	<0.965	<1.38	0.816 J,Q	1.61 J	3.56	2.51	<1.34	<0.969	<0.981	<1.35	<0.981	<0.955	<1.31
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.07	<1.08	<0.665	<0.648	<1.45	<1.09	<1.17	<0.661	<0.658	<1.41	<0.651	<0.659	<1.41	<0.659	<0.641	<1.38
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	<0.789	<0.795	<0.827	<0.806	<1.19	<0.803	<0.86	<0.823	<0.819	<1.16	<0.810	<0.820	<1.16	<0.820	<0.798	<1.14
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>																				
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	1.88 J	5.00	5.29	4.40	3.00	6.05	4.11	6.02	<0.910	3.36	4.96	4.17	4.80	<0.911	<0.886	<1.13
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	<0.876	2.46	2.30	2.37	<1.80	2.37	1.38 J,Q	5.24	<0.824	<1.75	7.42	11.4 Q	5.85	<0.825	<0.803	<1.71
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	2.43	17.5	7.65	8.82	4.23 Q	16.5 Q	17.4	15.3	3.26	6.95	24.7	18.9	24.1	<1.04	<1.01	<1.40
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<2.39	7.56	2.00 J,Q	2.26	<1.69	<2.43	<2.61	1.79 J	<0.598	<1.65	4.30	3.55	2.49	<0.599	<0.583	<1.62
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	21.5	117	33.3 Q	45.7 Q	19.1	191	193	146	56.6	79.8	149	106	160	1.54 J	<1.11	<1.84
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.36	<1.37	<1.17	<1.14	<1.70	<1.39	<1.49	<1.17	<1.16	<1.66	<1.15	<1.16	<1.66	<1.16	<1.13	<1.62
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<2.62	<2.64	<0.771	<0.752	<1.60	<2.66	<2.85	<0.767	<0.764	<1.56	<0.756	<0.765	<1.56	<0.765	<0.744	<1.53
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.54	<1.55	<1.44	<1.40	<1.79	<1.57	<1.68	<1.43	<1.42	<1.74	<1.41	<1.42	<1.75	<1.42	<1.39	<1.71
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>																				
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	8.47 Q	7.80	6.21	14.7	14.2 Q	17.2	11.3	16.1	10.3	12.6 Q	10.5	31.9	36.7 Q	1.97 J	<1.07	<1.71
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<6.63	<6.68	<2.27	<2.22	<3.11	<6.75	<7.23	<2.26	<2.25	<3.02	<2.23	<2.25	<3.03	<2.25	<2.19	<2.96
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/L	20	2	<7.06	<7.12	<2.36	<2.30	<2.54	<7.19	<7.70	5.22	<2.34	<2.47	<2.31	<2.34	<2.48	<2.34	<2.28	<2.43
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	<0.914	<0.921	<0.964	<0.940	<1.43	2.48	2.29 Q	3.00	1.55 J	1.88 J, Q	<0.945	<0.956	<1.40	<0.956	<0.930	<1.36
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/L	20	2	<2.45	<2.47	<1.06	<1.03	<1.38	4.28	4.72	5.04	21.6	10.7	<1.03	<1.05	<1.35	<1.05	<1.02	<1.32
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<7.74	<7.80	<2.03	<1.98	<2.43	<7.88	<8.44	<2.02	<2.01	<2.36	<1.99	<2.01	<2.37	<2.01	<1.96	<2.32
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<5.37	<5.41	<1.59	<1.55	<2.19	<5.47	<5.86	<1.59	<1.58	<2.13	<1.56	<1.58	<2.13	<1.58	<1.54	<2.08
<b>Fluorotelomer Substances (FTS)</b>																				
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.04	<1.05	<0.964	<0.940	<1.35	<1.06	<1.14	<0.959	<0.955	<1.32	<0.945	<0.956	<1.32	<0.956	<0.930	<1.29
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	<0.934	<0.941	<1.14	<1.11	<1.51	3.70	2.97	3.74	1.27 J	2.56	<1.12	<1.13	<1.47	3.50	<1.10	<1.44
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<2.17	<2.18	<1.15	<1.12	<1.78	7.43	6.78	5.49	2.41	3.46	<1.13	<1.14	<1.73	<1.14	<1.11	<1.69
<b>Replacement Chemicals</b>																				
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<0.600	<0.605	<1.59	<1.55	<2.02	<0.611	<0.654	<1.58	<1.57	<1.97	<1.56	<1.57	<1.97	<1.58	<1.53	<1.93
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.822	<0.829	<0.649	<0.633	<1.13	<0.837	<0.897	<0.646	<0.643	<1.10	<0.636	<0.644	<1.11	<0.644	<0.627	<1.08
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/L	--	--	<0.803	<0.809	<1.08	<1.05	<1.55	<0.818	<0.876	<1.08	<1.07	<1.51	<1.06	<1.07	<1.52	<1.07	<1.04	<1.48
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/L	--	--	<0.413	<0.416	<1.00	<0.980	<1.24	<0.420	<0.450	<1.00	<0.995	<1.20	<0.984	<0.996	<1.21	<0.997	<0.969	<1.18
<b>Total combined PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOA and PFOS</b>		ng/L	20	2	91.9	542	215	251	150	339	332	353	131.5	201.5	357	317	385	3.51	ND	ND

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
**Bold** = value exceeds the Method Detection Limit

Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.

\* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA.

**Table 3**  
**Groundwater Analytical Results Comparison**  
 2023 Third Quarter Groundwater PFAS Sampling  
 Georgia-Pacific Broadway Facility  
 Green Bay, Wisconsin

Parameter	CAS Number	Units	WDHS Recommended Enforcement Standard	WDHS Recommended Preventative Action Limit	Sample Location and Date							
					MW-22-14	MW-22-14	MW-22-14	MW-22-15	MW-22-15	MW-22-15	GP-02	GP-02
					5/5/22	8/1/22	8/10/23	5/3/22	8/2/22	8/10/23	5/6/22	8/2/22
<b>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</b>												
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	33.8	28.6	34.5	14.4	11.6	<1.34	7.34	7.21
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	57.3	44.2	57	22.6	18.9	14.9	2.71	2.26
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	62.1	60.5	65.6	35.2	20.7	14.3	3.56	2.70
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	70.2	73.7	93.6	30.2	15.1	11.7	1.71	1.29 J
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	571	520	687	94.5	50.7	43.6	6.44	5.89
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	102	75.1	116	6.28	2.28	2.48 Q	<0.761	<0.749
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	18.1	17.6	18.8	6.18	2.94	1.38 J	<0.953	<0.938
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	--	--	<0.731	<0.762	<1.10	1.07 J,Q	<0.759	<1.08	<0.761	<0.749
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.944	<0.984	<1.37	<0.980	<0.980	<1.34	<0.983	<0.967
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<0.634	<0.661	<1.43	<0.659	<0.659	<1.41	<0.660	<0.650
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	<0.789	<0.823	<1.18	<0.819	<0.819	<1.16	<0.822	<0.809
<b>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</b>												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	6.38	5.16	7.37	<0.910	<0.910	<1.15	1.70	1.60 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	4.39	6.06	5.38	<0.824	<0.824	<1.75	<0.827	<0.814
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	45.4	36.7	47.6	3.72 Q	2.54	5.40 Q	1.18	1.25 J
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	35.7	27.5	34.4	<0.598	<0.598	<1.65	<0.600	<0.590
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	2,100	2,070 D	2,280 D	46.5	42.6	37.8	<1.14	1.72 J
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.12	<1.17	<1.69	<1.16	<1.16	<1.66	<1.16	<1.15
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<0.736	<0.767	<1.59	<0.764	<0.764	<1.56	<0.766	<0.754
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.37	<1.43	<1.78	<1.42	<1.42	<1.75	<1.43	<1.40
<b>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</b>												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	42.1	48.4	62.4 Q	63.4	17.5	14.2 Q	5.73	3.51 Q
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<2.17	<2.26	<3.09	<2.25	<2.25	<3.03	<2.26	<2.22
N-ethyl perfluorooctane sulfonamide (NEFOSA)	4151-50-2	ng/L	20	2	<2.25	<2.35	<2.52	<2.34	<2.34	<2.48	<2.34	<2.31
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	7.51	12.1	14.7	<0.955	<0.955	<1.39	<0.958	<0.943
N-ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	2991-50-6	ng/L	20	2	48.4	87.0	87.3	5.62	5.42	8.45	<1.05	<1.03
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<1.94	<2.02	<2.41	<2.01	<2.01	<2.37	<2.02	<1.98
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<1.52	<1.58	<2.17	<1.58	<1.58	<2.13	<1.58	<1.56
<b>Fluorotelomer Substances (FTS)</b>												
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<0.920	<0.959	<1.34	<0.955	<0.955	<1.32	<0.958	<0.943
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	2.98	1.40 J	1.96 J	<1.13	<1.13	<1.47	<1.13	<1.12
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	1.78	3.09	4.58	<1.14	<1.14	<1.73	<1.14	<1.13
<b>Replacement Chemicals</b>												
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<1.52	<1.58	<2.01	<1.57	<1.57	<1.97	<1.58	<1.55
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.620	<0.646	<1.13	<0.644	<0.644	<1.11	<0.645	<0.635
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/L	--	--	<1.03	<1.07	<1.54	<1.07	<1.07	<1.52	<1.07	<1.06
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/L	--	--	<0.959	<0.999	<1.23	<0.995	<0.995	<1.21	<0.660	<0.982
<b>Total combined PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOA and PFOS</b>		ng/L	20	2	2,762	2,725	3,117	210	116	104.1	12.17	9.40

Notes:  
 PFAS laboratory analysis was completed using Modified USEPA Method 537.  
 ng/L = nanogram per liter  
 J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.  
 Q = The ion transition ratio is outside of the acceptance criteria.  
 D = Sample was diluted prior to analysis.  
**Blue** = value exceeds the Method Detection Limit

Blue highlighted values exceed the WDHS Recommended Preventive Action Limit for groundwater.  
 Yellow highlighted values exceed both the WDHS Recommended Preventive Action Limit and the WDHS Recommended Enforcement Standard for groundwater.

\* The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA.




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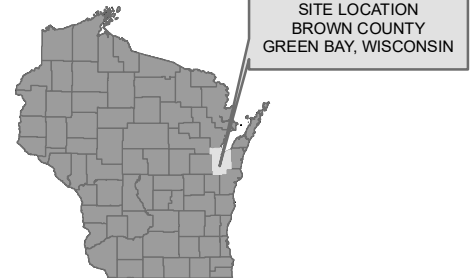
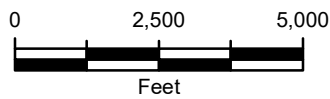
## FIGURES

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Map Source: 2013 National Geographic Society

 Approximate South Broadway Facility Site Boundary



**TETRA TECH**

www.tetrattech.com

1136 OAK VALLEY DRIVE, SUITE 100  
ANN ARBOR, MI 48108  
PHONE: 734.665.6000

2023 THIRD QUARTER GROUNDWATER PFAS SAMPLING

GEORGIA PACIFIC BROADWAY FACILITY  
1919 SOUTH BROADWAY  
GREEN BAY, BROWN COUNTY, WISCONSIN 54304

**SITE LOCATION MAP**

Project No: 117-4124308

Designed by: JDW

Date: 9/29/2022

FIGURE




1

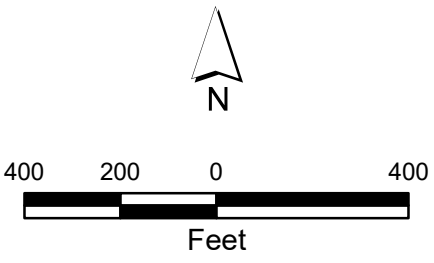
Bar Measures 1 inch



10/30/2023 - 3:27:56 PM - C:\from DIGIS\_Databases\_Files\GP\Broadway Mill\_2023\_08\_GW Contours.mxd - marco.capodivacca



-  Monitoring Well
-  Groundwater Elevation Contour
-  Site Boundary



- Notes:
1. Groundwater contours generated using Surfer 16 and default settings.
  2. Well gauging completed on August 9, 2023.
  3. Contour interval is 2 ft.
  4. The static groundwater elevation at MW-21-05 was not used for groundwater contouring.

**TETRA TECH**  
 1136 OAK VALLEY DRIVE, SUITE 100  
 ANN ARBOR, MI 48108  
 PHONE: 734.665.6000

2023 THIRD QUARTER GROUNDWATER PFAS SAMPLING  
 GEORGIA-PACIFIC BROADWAY MILL  
 GREEN BAY, WISCONSIN  
**AUGUST 2023 GROUNDWATER ELEVATIONS**

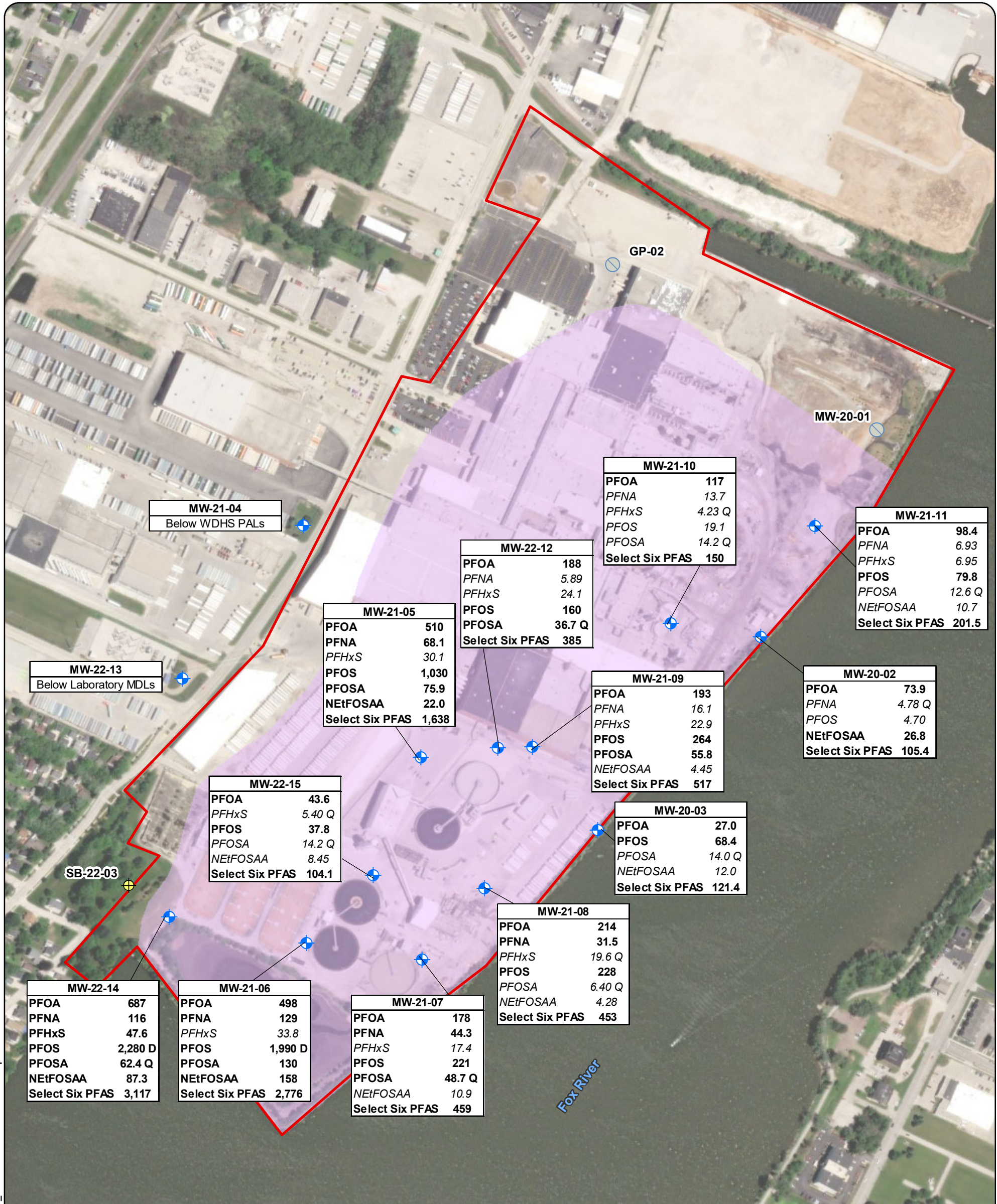
Project No: 117-4124308  
 Date: 10/30/2023  
 Designed by: MC  
**FIGURE 2**

Bar Measures 1 inch

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10/30/2023 - 3:23:05 PM - C:\from DIGIS\_Databases\_Files\GP\Broadway Mill\_2023\_PFA results.mxd - marco.capodivacca



<b>MW-22-13</b>
Below Laboratory MDLs

<b>MW-21-04</b>
Below WDHS PALs

<b>MW-21-05</b>
PFOA 510
PFNA 68.1
PFHxS 30.1
PFOS 1,030
PFOSA 75.9
NEtFOSAA 22.0
Select Six PFAS 1,638

<b>MW-22-15</b>
PFOA 43.6
PFHxS 5.40 Q
PFOS 37.8
PFOSA 14.2 Q
NEtFOSAA 8.45
Select Six PFAS 104.1

<b>MW-22-14</b>
PFOA 687
PFNA 116
PFHxS 47.6
PFOS 2,280 D
PFOSA 62.4 Q
NEtFOSAA 87.3
Select Six PFAS 3,117

<b>MW-21-06</b>
PFOA 498
PFNA 129
PFHxS 33.8
PFOS 1,990 D
PFOSA 130
NEtFOSAA 158
Select Six PFAS 2,776

<b>MW-21-07</b>
PFOA 178
PFNA 44.3
PFHxS 17.4
PFOS 221
PFOSA 48.7 Q
NEtFOSAA 10.9
Select Six PFAS 459

<b>MW-21-08</b>
PFOA 214
PFNA 31.5
PFHxS 19.6 Q
PFOS 228
PFOSA 6.40 Q
NEtFOSAA 4.28
Select Six PFAS 453

<b>MW-21-09</b>
PFOA 193
PFNA 16.1
PFHxS 22.9
PFOS 264
PFOSA 55.8
NEtFOSAA 4.45
Select Six PFAS 517

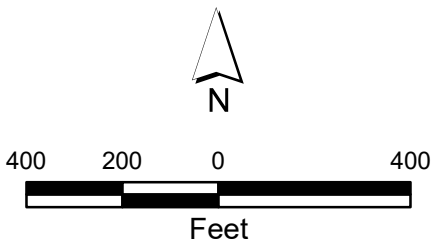
<b>MW-20-02</b>
PFOA 73.9
PFNA 4.78 Q
PFOS 4.70
NEtFOSAA 26.8
Select Six PFAS 105.4

<b>MW-21-10</b>
PFOA 117
PFNA 13.7
PFHxS 4.23 Q
PFOS 19.1
PFOSA 14.2 Q
Select Six PFAS 150

<b>MW-21-11</b>
PFOA 98.4
PFNA 6.93
PFHxS 6.95
PFOS 79.8
PFOSA 12.6 Q
NEtFOSAA 10.7
Select Six PFAS 201.5

<b>MW-22-12</b>
PFOA 188
PFNA 5.89
PFHxS 24.1
PFOS 160
PFOSA 36.7 Q
Select Six PFAS 385

- Soil Boring
- Monitoring Well
- Abandoned Well
- Site Boundary
- Estimated extent of PFAS impacts above WDHS Recommended ESs



- Notes:
1. Posted detections only include PFAS that exceed the Wisconsin Department of Health Services (WDHS) Recommended Preventive Action Limits (PALs) or Recommended Enforcement Standards (ESs) for Groundwater, Updated March 1, 2021.
  2. **Bold font** = Results exceed both the WDHS Recommended PAL and the WDHS Recommended ES for Groundwater.
  3. *Italicized font* = Results exceed the WDHS Recommended PAL for Groundwater.
  4. Results are in nanograms per liter (ng/L).
  5. MDLs = Method Detection Limits

1136 OAK VALLEY DRIVE, SUITE 100  
ANN ARBOR, MI 48108  
PHONE: 734.665.6000

2023 THIRD QUARTER GROUNDWATER PFAS SAMPLING  
GEORGIA-PACIFIC BROADWAY MILL  
GREEN BAY, WISCONSIN  
AUGUST 2023 GROUNDWATER ANALYTICAL RESULTS

Project No: 117-4124308  
Date: 10/30/2023  
Designed by: MC  
FIGURE  
**3**

Bar Measures 1 inch

Copyright: Tetra Tech



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**ATTACHMENT 1**  
**GROUNDWATER ANALYTICAL REPORT**

---



September 07, 2023

**Enthalpy Analytical - El Dorado Hills  
Work Order No. 2308119**

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 Enthalpy Analytical - EDH on August 11, 2023 under your Project Name 'GP Broadway 117-4124308'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mark.rein@enthalpy.com](mailto:mark.rein@enthalpy.com).

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Mark Rein  
Project Manager

*Enthalpy Analytical -EDH 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 Enthalpy Analytical -EDH.*

## Enthalpy Analytical - EDH Work Order No. 2308119

### Case Narrative

#### Sample Condition on Receipt:

Eighteen aqueous samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

#### Analytical Notes:

##### PFAS Isotope Dilution Method

The samples were extracted and analyzed for a selected list of PFAS using Enthalpy Analytical - EDH'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 1/2 the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

#### QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2308119-01	MW-20-02	PFAS Isotope Dilution Method	13C3-PFBA	H	8.00
2308119-10	MW-21-11	PFAS Isotope Dilution Method	13C3-PFBA	H	22.5

H = Recovery was outside laboratory acceptance criteria.

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# Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2308119-01	MW-20-02	09-Aug-23 14:05	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-02	MW-20-03	09-Aug-23 09:30	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-03	MW-21-04	09-Aug-23 12:20	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-04	MW-21-05	09-Aug-23 15:30	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-05	MW-21-06	10-Aug-00 09:30	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-06	MW-21-07	09-Aug-23 10:10	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-07	MW-21-08	10-Aug-23 08:30	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-08	MW-21-09	10-Aug-23 10:45	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-09	MW-21-10	09-Aug-23 14:45	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-10	MW-21-11	09-Aug-23 08:15	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-11	MW-22-12	10-Aug-23 10:10	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-12	MW-22-13	10-Aug-23 11:40	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-13	MW-22-14	10-Aug-23 11:25	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-14	MW-22-15	10-Aug-23 07:50	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-15	Dup-1	09-Aug-23 00:00	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-16	Dup-2	10-Aug-23 00:00	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-17	EB-1	09-Aug-23 07:30	11-Aug-23 09:05	HDPE Bottle, 250 mL
2308119-18	FB-1	09-Aug-23 07:35	11-Aug-23 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:	B23H175-BLK1	Column:	BEH C18
Project:	GP Broadway 117-4124308						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.33	1.33	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFPeA	2706-90-3	<1.30	1.30	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFBS	375-73-5	<1.14	1.14	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
4:2 FTS	757124-72-4	<1.31	1.31	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFHxA	307-24-4	<1.26	1.26	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFPeS	2706-91-4	<1.74	1.74	2.00		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:15	1
HFPO-DA	13252-13-6	<1.95	1.95	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFHpA	375-85-9	<0.875	0.875	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
ADONA	919005-14-4	<1.10	1.10	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFHxS	355-46-4	<1.42	1.42	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
6:2 FTS	27619-97-2	<1.46	1.46	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFOA	335-67-1	<1.11	1.11	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFHpS	375-92-8	<1.64	1.64	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFNA	375-95-1	<1.25	1.25	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFOSA	754-91-6	<1.73	1.73	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFOS	1763-23-1	<1.86	1.86	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
9CI-PF3ONS	756426-58-1	<1.50	1.50	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFDA	335-76-2	<1.21	1.21	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
8:2 FTS	39108-34-4	<1.72	1.72	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFNS	68259-12-1	<1.65	1.65	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
MeFOSAA	2355-31-9	<1.38	1.38	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
EtFOSAA	2991-50-6	<1.34	1.34	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFUnA	2058-94-8	<1.07	1.07	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFDS	335-77-3	<1.55	1.55	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
11CI-PF3OUdS	763051-92-9	<1.20	1.20	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFDoA	307-55-1	<1.33	1.33	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
MeFOSA	31506-32-8	<3.00	3.00	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFTTrDA	72629-94-8	<1.40	1.40	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFDoS	79780-39-5	<1.73	1.73	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
PFTeDA	376-06-7	<1.15	1.15	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
EtFOSA	4151-50-2	<2.46	2.46	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
MeFOSE	24448-09-7	<2.35	2.35	2.50		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:15	1
EtFOSE	1691-99-2	<2.11	2.11	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.7	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C3-PFPeA	IS	81.0	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C3-PFBS	IS	81.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-4:2 FTS	IS	94.3	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1

**Sample ID: Method Blank** **PFAS Isotope Dilution Method**

<b>Client Data</b>				<b>Laboratory Data</b>			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B23H175-BLK1	Column:	BEH C18
Project:	GP Broadway 117-4124308						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	IS	87.1	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C3-HFPO-DA	IS	77.7	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C4-PFHpA	IS	90.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C3-PFHxS	IS	89.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-6:2 FTS	IS	104	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-PFOA	IS	89.5	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C5-PFNA	IS	89.8	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C8-PFOSA	IS	53.0	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C8-PFOS	IS	91.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-PFDA	IS	82.8	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-8:2 FTS	IS	87.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
d3-MeFOSAA	IS	65.5	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
d5-EtFOSAA	IS	90.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-PFUnA	IS	86.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-PFDoA	IS	78.1	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
d3-MeFOSA	IS	32.2	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
13C2-PFTeDA	IS	80.0	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
d5-EtFOSA	IS	31.5	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	1
d7-MeFOSE	IS	53.2	10 - 150		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:15	1
d9-EtFOSE	IS	49.3	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:37	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:	B23H175-BS1	Column:	BEH C18		
Project:	GP Broadway 117-4124308								

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	74.3	80.0	92.9	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFPeA	2706-90-3	74.6	80.0	93.2	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFBS	375-73-5	84.3	80.0	105	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
4:2 FTS	757124-72-4	70.1	80.0	87.6	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFHxA	307-24-4	74.1	80.0	92.7	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFPeS	2706-91-4	85.2	80.0	106	50 - 150		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:25	1
HFPO-DA	13252-13-6	80.1	80.0	100	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFHpA	375-85-9	73.5	80.0	91.9	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
ADONA	919005-14-4	70.0	80.0	87.5	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFHxS	355-46-4	71.8	80.0	89.8	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
6:2 FTS	27619-97-2	78.8	80.0	98.6	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFOA	335-67-1	75.9	80.0	94.8	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFHpS	375-92-8	81.4	80.0	102	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFNA	375-95-1	77.5	80.0	96.9	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFOSA	754-91-6	87.3	80.0	109	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFOS	1763-23-1	75.2	80.0	94.1	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
9Cl-PF3ONS	756426-58-1	69.3	80.0	86.7	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFDA	335-76-2	67.8	80.0	84.7	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
8:2 FTS	39108-34-4	77.0	80.0	96.2	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFNS	68259-12-1	78.2	80.0	97.8	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
MeFOSAA	2355-31-9	73.8	80.0	92.3	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
EtFOSAA	2991-50-6	69.8	80.0	87.2	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFUnA	2058-94-8	75.0	80.0	93.8	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFDS	335-77-3	69.7	80.0	87.2	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
11Cl-PF3OUdS	763051-92-9	75.1	80.0	93.9	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFDoA	307-55-1	70.0	80.0	87.5	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
MeFOSA	31506-32-8	91.1	80.0	114	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFTtDA	72629-94-8	72.0	80.0	90.0	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFDoS	79780-39-5	73.6	80.0	92.0	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
PFTeDA	376-06-7	69.6	80.0	87.0	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
EtFOSA	4151-50-2	89.8	80.0	112	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1

**Sample ID: OPR**

**PFAS Isotope Dilution Method**

Client Data					Laboratory Data						
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B23H175-BS1	Column:	BEH C18			
Project:	GP Broadway 117-4124308										

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	24448-09-7	80.9	80.0	101	50 - 150		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:25	1
EtFOSE	1691-99-2	77.8	80.0	97.2	50 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
Labeled Standards			Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA			IS	97.5	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C3-PFPeA			IS	93.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C3-PFBS			IS	86.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-4:2 FTS			IS	102	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFHxA			IS	96.1	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C3-HFPO-DA			IS	88.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C4-PFHpA			IS	98.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C3-PFHxS			IS	97.2	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-6:2 FTS			IS	83.7	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFOA			IS	94.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C5-PFNA			IS	103	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C8-PFOA			IS	63.1	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C8-PFOS			IS	87.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFDA			IS	90.7	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-8:2 FTS			IS	90.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
d3-MeFOSAA			IS	84.8	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
d5-EtFOSAA			IS	92.1	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFUnA			IS	88.8	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFDoA			IS	81.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
d3-MeFOSA			IS	36.3	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
13C2-PFTeDA			IS	86.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
d5-EtFOSA			IS	38.7	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1
d7-MeFOSE			IS	52.7	10 - 150		B23H175	21-Aug-23	0.250 L	28-Aug-23 18:25	1
d9-EtFOSE			IS	51.0	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 14:47	1

**Sample ID: MW-20-02**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-01	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 14:05	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.29	1.29	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFPeA	2706-90-3	66.7	1.26	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFBS	375-73-5	2.33	1.11	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
4:2 FTS	757124-72-4	<1.27	1.27	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFHxA	307-24-4	145	1.22	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFPeS	2706-91-4	<1.68	1.68	1.94		B23H175	21-Aug-23	0.258 L	28-Aug-23 18:36	1
HFPO-DA	13252-13-6	<1.89	1.89	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFHpA	375-85-9	42.9	0.849	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
ADONA	919005-14-4	<1.06	1.06	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFHxS	355-46-4	<1.38	1.38	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
6:2 FTS	27619-97-2	<1.41	1.41	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFOA	335-67-1	73.9	1.08	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFHpS	375-92-8	<1.59	1.59	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFNA	375-95-1	4.78	1.21	1.94	Q	B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFOSA	754-91-6	<1.68	1.68	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFOS	1763-23-1	4.70	1.81	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
9Cl-PF3ONS	756426-58-1	<1.46	1.46	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFDA	335-76-2	<1.17	1.17	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
8:2 FTS	39108-34-4	<1.66	1.66	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFNS	68259-12-1	<1.60	1.60	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
MeFOSAA	2355-31-9	<1.34	1.34	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
EtFOSAA	2991-50-6	26.8	1.30	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFUnA	2058-94-8	<1.04	1.04	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFDS	335-77-3	<1.50	1.50	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
11Cl-PF3OUdS	763051-92-9	<1.16	1.16	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFDoA	307-55-1	<1.29	1.29	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
MeFOSA	31506-32-8	<2.91	2.91	3.88		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFTTrDA	72629-94-8	<1.35	1.35	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFDoS	79780-39-5	<1.68	1.68	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
PFTeDA	376-06-7	<1.12	1.12	1.94		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
EtFOSA	4151-50-2	<2.38	2.38	3.88		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
MeFOSE	24448-09-7	<2.28	2.28	2.43		B23H175	21-Aug-23	0.258 L	28-Aug-23 18:36	1
EtFOSE	1691-99-2	<2.05	2.05	3.88		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	8.00	25 - 150	H	B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C3-PFPeA	IS	47.6	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C3-PFBS	IS	83.5	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1

**Sample ID: MW-20-02**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-01	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 14:05	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	102	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFHxA	IS	81.9	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C3-HFPO-DA	IS	83.6	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C4-PFHpA	IS	92.5	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C3-PFHxS	IS	90.7	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-6:2 FTS	IS	119	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFOA	IS	103	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C5-PFNA	IS	105	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C8-PFOA	IS	96.2	10 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C8-PFOS	IS	94.0	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFDA	IS	104	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-8:2 FTS	IS	142	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
d3-MeFOSAA	IS	89.2	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
d5-EtFOSAA	IS	93.1	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFUnA	IS	87.5	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFDoA	IS	91.2	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
d3-MeFOSA	IS	58.9	10 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
13C2-PFTeDA	IS	64.7	25 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
d5-EtFOSA	IS	49.7	10 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	1
d7-MeFOSE	IS	46.9	10 - 150		B23H175	21-Aug-23	0.258 L	28-Aug-23 18:36	1
d9-EtFOSE	IS	42.6	10 - 150		B23H175	21-Aug-23	0.258 L	27-Aug-23 14:58	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: MW-20-03**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-02	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 09:30	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.53	1.36	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFPeA	2706-90-3	7.57	1.33	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFBS	375-73-5	2.88	1.17	2.05	Q	B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
4:2 FTS	757124-72-4	<1.34	1.34	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFHxA	307-24-4	14.1	1.29	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFPeS	2706-91-4	<1.77	1.77	2.05		B23H175	21-Aug-23	0.244 L	28-Aug-23 18:46	1
HFPO-DA	13252-13-6	<1.99	1.99	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFHpA	375-85-9	6.71	0.895	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
ADONA	919005-14-4	<1.12	1.12	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFHxS	355-46-4	2.87	1.45	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
6:2 FTS	27619-97-2	<1.49	1.49	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFOA	335-67-1	27.0	1.14	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFHpS	375-92-8	<1.67	1.67	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFNA	375-95-1	2.60	1.27	2.05	Q	B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFOSA	754-91-6	14.0	1.77	2.05	Q	B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFOS	1763-23-1	68.4	1.90	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
9Cl-PF3ONS	756426-58-1	<1.53	1.53	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFDA	335-76-2	1.25	1.24	2.05	J, Q	B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
8:2 FTS	39108-34-4	<1.75	1.75	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFNS	68259-12-1	<1.68	1.68	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
MeFOSAA	2355-31-9	<1.41	1.41	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
EtFOSAA	2991-50-6	12.0	1.37	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFUnA	2058-94-8	<1.09	1.09	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFDS	335-77-3	<1.58	1.58	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
11Cl-PF3OUdS	763051-92-9	<1.22	1.22	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFDoA	307-55-1	<1.36	1.36	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
MeFOSA	31506-32-8	<3.07	3.07	4.09		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFTrDA	72629-94-8	<1.43	1.43	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFDoS	79780-39-5	<1.77	1.77	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
PFTeDA	376-06-7	<1.18	1.18	2.05		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
EtFOSA	4151-50-2	<2.51	2.51	4.09		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
MeFOSE	24448-09-7	<2.40	2.40	2.56		B23H175	21-Aug-23	0.244 L	28-Aug-23 18:46	1
EtFOSE	1691-99-2	<2.16	2.16	4.09		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	81.4	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C3-PFPeA	IS	90.4	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C3-PFBS	IS	86.1	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1

**Sample ID: MW-20-03**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-02	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 09:30	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	93.2	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFHxA	IS	94.2	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C3-HFPO-DA	IS	93.2	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C4-PFHpA	IS	97.9	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C3-PFHxS	IS	94.1	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-6:2 FTS	IS	99.1	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFOA	IS	92.9	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C5-PFNA	IS	90.0	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C8-PFOA	IS	75.0	10 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C8-PFOS	IS	83.7	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFDA	IS	90.1	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-8:2 FTS	IS	102	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
d3-MeFOSAA	IS	83.1	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
d5-EtFOSAA	IS	87.0	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFUnA	IS	85.7	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFDoA	IS	78.4	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
d3-MeFOSA	IS	31.4	10 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
13C2-PFTeDA	IS	76.0	25 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
d5-EtFOSA	IS	29.7	10 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	1
d7-MeFOSE	IS	65.1	10 - 150		B23H175	21-Aug-23	0.244 L	28-Aug-23 18:46	1
d9-EtFOSE	IS	67.0	10 - 150		B23H175	21-Aug-23	0.244 L	27-Aug-23 15:39	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-21-04**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-03	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 12:20	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	9.17	1.30	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFPeA	2706-90-3	8.96	1.27	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFBS	375-73-5	1.66	1.12	1.96	J	B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
4:2 FTS	757124-72-4	<1.28	1.28	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFHxA	307-24-4	4.54	1.23	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFPeS	2706-91-4	<1.70	1.70	1.96		B23H175	21-Aug-23	0.255 L	28-Aug-23 18:56	1
HFPO-DA	13252-13-6	<1.91	1.91	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFHpA	375-85-9	1.26	0.857	1.96	J	B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
ADONA	919005-14-4	<1.07	1.07	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFHxS	355-46-4	<1.39	1.39	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
6:2 FTS	27619-97-2	<1.43	1.43	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFOA	335-67-1	1.75	1.09	1.96	J	B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFHpS	375-92-8	<1.60	1.60	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFNA	375-95-1	<1.22	1.22	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFOSA	754-91-6	<1.70	1.70	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFOS	1763-23-1	<1.82	1.82	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
9Cl-PF3ONS	756426-58-1	<1.47	1.47	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFDA	335-76-2	<1.19	1.19	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
8:2 FTS	39108-34-4	<1.68	1.68	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFNS	68259-12-1	<1.61	1.61	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
MeFOSAA	2355-31-9	<1.35	1.35	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
EtFOSAA	2991-50-6	<1.31	1.31	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFUnA	2058-94-8	<1.05	1.05	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFDS	335-77-3	<1.51	1.51	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
11Cl-PF3OUdS	763051-92-9	<1.17	1.17	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFDoA	307-55-1	<1.30	1.30	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
MeFOSA	31506-32-8	<2.94	2.94	3.92		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFTrDA	72629-94-8	<1.37	1.37	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFDoS	79780-39-5	<1.70	1.70	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
PFTeDA	376-06-7	<1.13	1.13	1.96		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
EtFOSA	4151-50-2	<2.41	2.41	3.92		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
MeFOSE	24448-09-7	<2.30	2.30	2.45		B23H175	21-Aug-23	0.255 L	28-Aug-23 18:56	1
EtFOSE	1691-99-2	<2.07	2.07	3.92		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.6	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C3-PFPeA	IS	91.3	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C3-PFBS	IS	103	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1

**Sample ID: MW-21-04**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-03	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 12:20	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	103	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFHxA	IS	100	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C3-HFPO-DA	IS	101	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C4-PFHpA	IS	110	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C3-PFHxS	IS	92.7	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-6:2 FTS	IS	111	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFOA	IS	99.2	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C5-PFNA	IS	100	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C8-PFOA	IS	77.6	10 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C8-PFOS	IS	91.5	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFDA	IS	96.3	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-8:2 FTS	IS	114	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
d3-MeFOSAA	IS	91.0	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
d5-EtFOSAA	IS	84.0	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFUnA	IS	94.3	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFDoA	IS	88.1	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
d3-MeFOSA	IS	37.1	10 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
13C2-PFTeDA	IS	95.2	25 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
d5-EtFOSA	IS	34.4	10 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	1
d7-MeFOSE	IS	55.7	10 - 150		B23H175	21-Aug-23	0.255 L	28-Aug-23 18:56	1
d9-EtFOSE	IS	55.6	10 - 150		B23H175	21-Aug-23	0.255 L	27-Aug-23 15:50	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-21-05**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-04	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 15:30	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	36.5	1.33	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFPeA	2706-90-3	64.3	1.31	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFBS	375-73-5	6.76	1.15	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
4:2 FTS	757124-72-4	<1.31	1.31	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFHxA	307-24-4	139	1.27	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFPeS	2706-91-4	5.66	1.75	2.01		B23H175	21-Aug-23	0.249 L	28-Aug-23 19:07	1
HFPO-DA	13252-13-6	<1.96	1.96	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFHpA	375-85-9	105	0.880	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
ADONA	919005-14-4	<1.10	1.10	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFHxS	355-46-4	30.1	1.43	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
6:2 FTS	27619-97-2	5.52	1.46	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFOA	335-67-1	510	1.12	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFHpS	375-92-8	17.0	1.64	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFNA	375-95-1	68.1	1.25	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFOSA	754-91-6	75.9	1.74	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFOS	1763-23-1	1030	1.87	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
9Cl-PF3ONS	756426-58-1	<1.51	1.51	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFDA	335-76-2	11.2	1.22	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
8:2 FTS	39108-34-4	6.39	1.73	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFNS	68259-12-1	<1.65	1.65	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
MeFOSAA	2355-31-9	6.08	1.39	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
EtFOSAA	2991-50-6	22.0	1.34	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFUnA	2058-94-8	<1.08	1.08	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFDS	335-77-3	<1.55	1.55	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFDoA	307-55-1	<1.34	1.34	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
MeFOSA	31506-32-8	<3.02	3.02	4.02		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFTrDA	72629-94-8	<1.40	1.40	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFDoS	79780-39-5	<1.74	1.74	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
PFTeDA	376-06-7	<1.16	1.16	2.01		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
EtFOSA	4151-50-2	<2.47	2.47	4.02		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
MeFOSE	24448-09-7	<2.36	2.36	2.52		B23H175	21-Aug-23	0.249 L	28-Aug-23 19:07	1
EtFOSE	1691-99-2	<2.12	2.12	4.02		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	70.8	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C3-PFPeA	IS	90.8	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C3-PFBS	IS	82.9	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1

**Sample ID: MW-21-05**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-04	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 15:30	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	91.9	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFHxA	IS	95.8	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C3-HFPO-DA	IS	96.6	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C4-PFHpA	IS	95.5	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C3-PFHxS	IS	92.1	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-6:2 FTS	IS	110	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFOA	IS	92.5	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C5-PFNA	IS	104	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C8-PFOA	IS	76.0	10 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C8-PFOS	IS	77.9	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFDA	IS	88.7	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-8:2 FTS	IS	88.9	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
d3-MeFOSAA	IS	83.7	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
d5-EtFOSAA	IS	96.7	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFUnA	IS	87.9	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFDoA	IS	82.3	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
d3-MeFOSA	IS	23.8	10 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
13C2-PFTeDA	IS	87.8	25 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
d5-EtFOSA	IS	21.3	10 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	1
d7-MeFOSE	IS	58.2	10 - 150		B23H175	21-Aug-23	0.249 L	28-Aug-23 19:07	1
d9-EtFOSE	IS	60.9	10 - 150		B23H175	21-Aug-23	0.249 L	27-Aug-23 16:00	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:	2308119-05	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-00 09:30	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	39.7	1.33	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFPeA	2706-90-3	63.6	1.30	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFBS	375-73-5	8.92	1.14	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
4:2 FTS	757124-72-4	<1.31	1.31	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFHxA	307-24-4	63.9	1.26	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFPeS	2706-91-4	6.09	1.74	2.00		B23H175	21-Aug-23	0.250 L	28-Aug-23 19:28	1
HFPO-DA	13252-13-6	<1.95	1.95	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFHpA	375-85-9	70.8	0.876	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
ADONA	919005-14-4	<1.10	1.10	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFHxS	355-46-4	33.8	1.42	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
6:2 FTS	27619-97-2	2.38	1.46	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFOA	335-67-1	498	1.11	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFHpS	375-92-8	20.1	1.64	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFNA	375-95-1	129	1.25	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFOSA	754-91-6	130	1.73	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFOS	1763-23-1	1990	9.31	10.0	D	B23H175	21-Aug-23	0.250 L	28-Aug-23 19:17	5
9Cl-PF3ONS	756426-58-1	<1.50	1.50	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFDA	335-76-2	35.7	1.21	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
8:2 FTS	39108-34-4	4.39	1.72	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFNS	68259-12-1	2.85	1.65	2.00	Q	B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
MeFOSAA	2355-31-9	24.8	1.38	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
EtFOSAA	2991-50-6	158	1.34	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFUnA	2058-94-8	<1.07	1.07	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFDS	335-77-3	<1.55	1.55	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFDoA	307-55-1	<1.33	1.33	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
MeFOSA	31506-32-8	<3.00	3.00	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFTTrDA	72629-94-8	<1.40	1.40	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFDoS	79780-39-5	<1.73	1.73	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
PFTeDA	376-06-7	<1.15	1.15	2.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
EtFOSA	4151-50-2	<2.46	2.46	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
MeFOSE	24448-09-7	<2.35	2.35	2.50		B23H175	21-Aug-23	0.250 L	28-Aug-23 19:28	1
EtFOSE	1691-99-2	<2.11	2.11	4.00		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	81.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C3-PFPeA	IS	88.2	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C3-PFBS	IS	94.2	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1

**Sample ID: MW-21-06**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-05	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-00 09:30	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	106	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-PFHxA	IS	95.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C3-HFPO-DA	IS	95.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C4-PFHpA	IS	101	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C3-PFHxS	IS	93.6	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-6:2 FTS	IS	114	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-PFOA	IS	96.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C5-PFNA	IS	101	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C8-PFOA	IS	68.7	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C8-PFOS	IS	92.0	25 - 150	D	B23H175	21-Aug-23	0.250 L	28-Aug-23 19:17	5
13C2-PFDA	IS	95.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-8:2 FTS	IS	104	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
d3-MeFOSAA	IS	86.9	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
d5-EtFOSAA	IS	93.7	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-PFUnA	IS	91.4	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-PFDoA	IS	84.3	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
d3-MeFOSA	IS	24.4	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
13C2-PFTeDA	IS	89.1	25 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
d5-EtFOSA	IS	20.9	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	1
d7-MeFOSE	IS	66.0	10 - 150		B23H175	21-Aug-23	0.250 L	28-Aug-23 19:28	1
d9-EtFOSE	IS	63.6	10 - 150		B23H175	21-Aug-23	0.250 L	27-Aug-23 16:10	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:	2308119-06	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 10:10	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	26.9	1.33	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFPeA	2706-90-3	41.2	1.31	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFBS	375-73-5	4.44	1.15	2.01	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
4:2 FTS	757124-72-4	<1.31	1.31	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFHxA	307-24-4	47.6	1.27	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFPeS	2706-91-4	2.67	1.75	2.01		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:09	1
HFPO-DA	13252-13-6	<1.96	1.96	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFHpA	375-85-9	45.0	0.881	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
ADONA	919005-14-4	<1.10	1.10	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFHxS	355-46-4	17.4	1.43	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
6:2 FTS	27619-97-2	1.97	1.46	2.01	J	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFOA	335-67-1	178	1.12	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFHpS	375-92-8	4.29	1.65	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFNA	375-95-1	44.3	1.25	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFOSA	754-91-6	48.7	1.74	2.01	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFOS	1763-23-1	221	1.87	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
9Cl-PF3ONS	756426-58-1	<1.51	1.51	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFDA	335-76-2	5.75	1.22	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
8:2 FTS	39108-34-4	1.96	1.73	2.01	J	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFNS	68259-12-1	<1.66	1.66	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
MeFOSAA	2355-31-9	<1.39	1.39	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
EtFOSAA	2991-50-6	10.9	1.34	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFUnA	2058-94-8	<1.08	1.08	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFDS	335-77-3	<1.55	1.55	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFDoA	307-55-1	<1.34	1.34	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
MeFOSA	31506-32-8	<3.02	3.02	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFTTrDA	72629-94-8	<1.40	1.40	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFDoS	79780-39-5	<1.74	1.74	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
PFTeDA	376-06-7	<1.16	1.16	2.01		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
EtFOSA	4151-50-2	<2.47	2.47	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
MeFOSE	24448-09-7	<2.36	2.36	2.52		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:09	1
EtFOSE	1691-99-2	<2.12	2.12	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C3-PFPeA	IS	94.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C3-PFBS	IS	86.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1

**Sample ID: MW-21-07**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-06	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 10:10	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	107	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFHxA	IS	103	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C3-HFPO-DA	IS	96.2	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C4-PFHpA	IS	106	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C3-PFHxS	IS	92.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-6:2 FTS	IS	97.0	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFOA	IS	101	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C5-PFNA	IS	98.2	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C8-PFOA	IS	66.5	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C8-PFOS	IS	90.8	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFDA	IS	89.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-8:2 FTS	IS	93.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
d3-MeFOSAA	IS	97.8	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
d5-EtFOSAA	IS	93.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFUnA	IS	90.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFDoA	IS	86.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
d3-MeFOSA	IS	37.2	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
13C2-PFTeDA	IS	91.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
d5-EtFOSA	IS	35.2	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	1
d7-MeFOSE	IS	80.4	10 - 150		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:09	1
d9-EtFOSE	IS	73.2	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:21	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:	2308119-07	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 08:30	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	27.3	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFPeA	2706-90-3	55.6	1.31	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFBS	375-73-5	5.76	1.15	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
4:2 FTS	757124-72-4	<1.32	1.32	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFHxA	307-24-4	59.8	1.27	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFPeS	2706-91-4	4.48	1.75	2.02		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:20	1
HFPO-DA	13252-13-6	<1.97	1.97	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFHpA	375-85-9	49.4	0.882	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
ADONA	919005-14-4	<1.10	1.10	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFHxS	355-46-4	19.6	1.43	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
6:2 FTS	27619-97-2	<1.47	1.47	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFOA	335-67-1	214	1.12	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFHpS	375-92-8	5.40	1.65	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFNA	375-95-1	31.5	1.26	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFOSA	754-91-6	6.40	1.74	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFOS	1763-23-1	228	1.88	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
9Cl-PF3ONS	756426-58-1	<1.51	1.51	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFDA	335-76-2	3.63	1.22	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
8:2 FTS	39108-34-4	<1.73	1.73	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFNS	68259-12-1	<1.66	1.66	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
MeFOSAA	2355-31-9	<1.39	1.39	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
EtFOSAA	2991-50-6	4.28	1.35	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFUnA	2058-94-8	<1.08	1.08	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFDS	335-77-3	<1.56	1.56	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFDoA	307-55-1	<1.34	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
MeFOSA	31506-32-8	<3.02	3.02	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFTrDA	72629-94-8	<1.41	1.41	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFDoS	79780-39-5	<1.74	1.74	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
PFTeDA	376-06-7	<1.16	1.16	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
EtFOSA	4151-50-2	<2.47	2.47	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
MeFOSE	24448-09-7	<2.36	2.36	2.52		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:20	1
EtFOSE	1691-99-2	<2.13	2.13	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	77.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C3-PFPeA	IS	94.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C3-PFBS	IS	97.2	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1

**Sample ID: MW-21-08**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-07	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 08:30	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFHxA	IS	97.2	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C3-HFPO-DA	IS	92.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C4-PFHpA	IS	107	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C3-PFHxS	IS	85.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-6:2 FTS	IS	104	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFOA	IS	95.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C5-PFNA	IS	108	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C8-PFOA	IS	81.8	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C8-PFOS	IS	98.8	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFDA	IS	92.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-8:2 FTS	IS	84.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
d3-MeFOSAA	IS	91.4	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
d5-EtFOSAA	IS	89.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFUnA	IS	92.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFDoA	IS	85.0	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
d3-MeFOSA	IS	40.3	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
13C2-PFTeDA	IS	90.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
d5-EtFOSA	IS	31.5	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	1
d7-MeFOSE	IS	70.1	10 - 150		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:20	1
d9-EtFOSE	IS	66.4	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 16:31	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:	2308119-08	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 10:45	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	22.1	1.32	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFPeA	2706-90-3	25.4	1.30	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFBS	375-73-5	<1.14	1.14	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
4:2 FTS	757124-72-4	<1.30	1.30	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFHxA	307-24-4	37.7	1.26	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFPeS	2706-91-4	<1.73	1.73	1.99		B23H175	21-Aug-23	0.251 L	28-Aug-23 20:30	1
HFPO-DA	13252-13-6	<1.94	1.94	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFHpA	375-85-9	37.0	0.872	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
ADONA	919005-14-4	<1.09	1.09	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFHxS	355-46-4	22.9	1.42	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
6:2 FTS	27619-97-2	<1.45	1.45	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFOA	335-67-1	193	1.11	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFHpS	375-92-8	5.70	1.63	1.99	Q	B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFNA	375-95-1	16.1	1.24	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFOSA	754-91-6	55.8	1.72	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFOS	1763-23-1	264	1.85	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
9Cl-PF3ONS	756426-58-1	<1.50	1.50	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFDA	335-76-2	1.76	1.21	1.99	J	B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
8:2 FTS	39108-34-4	<1.71	1.71	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFNS	68259-12-1	<1.64	1.64	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
MeFOSAA	2355-31-9	<1.38	1.38	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
EtFOSAA	2991-50-6	4.45	1.33	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFUnA	2058-94-8	<1.07	1.07	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFDS	335-77-3	<1.54	1.54	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
11Cl-PF3OUdS	763051-92-9	<1.19	1.19	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFDoA	307-55-1	<1.33	1.33	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
MeFOSA	31506-32-8	<2.99	2.99	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFTTrDA	72629-94-8	<1.39	1.39	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFDoS	79780-39-5	<1.72	1.72	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
PFTeDA	376-06-7	<1.15	1.15	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
EtFOSA	4151-50-2	<2.45	2.45	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
MeFOSE	24448-09-7	<2.34	2.34	2.49		B23H175	21-Aug-23	0.251 L	28-Aug-23 20:30	1
EtFOSE	1691-99-2	<2.10	2.10	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.3	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C3-PFPeA	IS	97.7	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C3-PFBS	IS	95.5	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1

**Sample ID: MW-21-09**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-08	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 10:45	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	113	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFHxA	IS	98.7	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C3-HFPO-DA	IS	92.1	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C4-PFHpA	IS	109	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C3-PFHxS	IS	94.8	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-6:2 FTS	IS	118	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFOA	IS	98.7	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C5-PFNA	IS	110	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C8-PFOA	IS	79.7	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C8-PFOS	IS	98.4	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFDA	IS	93.9	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-8:2 FTS	IS	96.2	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
d3-MeFOSAA	IS	89.6	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
d5-EtFOSAA	IS	95.5	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFUnA	IS	99.7	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFDoA	IS	92.4	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
d3-MeFOSA	IS	39.7	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
13C2-PFTeDA	IS	90.3	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
d5-EtFOSA	IS	36.0	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	1
d7-MeFOSE	IS	76.0	10 - 150		B23H175	21-Aug-23	0.251 L	28-Aug-23 20:30	1
d9-EtFOSE	IS	71.9	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 16:42	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:	2308119-09	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 14:45	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	18.9	1.37	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFPeA	2706-90-3	35.1	1.35	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFBS	375-73-5	3.00	1.18	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
4:2 FTS	757124-72-4	<1.35	1.35	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFHxA	307-24-4	43.7	1.31	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFPeS	2706-91-4	<1.80	1.80	2.07		B23H175	21-Aug-23	0.241 L	28-Aug-23 20:40	1
HFPO-DA	13252-13-6	<2.02	2.02	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFHpA	375-85-9	40.1	0.907	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
ADONA	919005-14-4	<1.13	1.13	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFHxS	355-46-4	4.23	1.47	2.07	Q	B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
6:2 FTS	27619-97-2	<1.51	1.51	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFOA	335-67-1	117	1.15	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFHpS	375-92-8	<1.69	1.69	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFNA	375-95-1	13.7	1.29	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFOSA	754-91-6	14.2	1.79	2.07	Q	B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFOS	1763-23-1	19.1	1.93	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
9Cl-PF3ONS	756426-58-1	<1.55	1.55	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFDA	335-76-2	16.8	1.25	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
8:2 FTS	39108-34-4	<1.78	1.78	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFNS	68259-12-1	<1.70	1.70	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
MeFOSAA	2355-31-9	<1.43	1.43	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
EtFOSAA	2991-50-6	<1.38	1.38	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFUnA	2058-94-8	1.64	1.11	2.07	J	B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFDS	335-77-3	<1.60	1.60	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
11Cl-PF3OUdS	763051-92-9	<1.24	1.24	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFDoA	307-55-1	<1.38	1.38	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
MeFOSA	31506-32-8	<3.11	3.11	4.14		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFTTrDA	72629-94-8	<1.45	1.45	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFDoS	79780-39-5	<1.79	1.79	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
PFTeDA	376-06-7	<1.19	1.19	2.07		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
EtFOSA	4151-50-2	<2.54	2.54	4.14		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
MeFOSE	24448-09-7	<2.43	2.43	2.59		B23H175	21-Aug-23	0.241 L	28-Aug-23 20:40	1
EtFOSE	1691-99-2	<2.19	2.19	4.14		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	56.8	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C3-PFPeA	IS	79.4	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C3-PFBS	IS	74.8	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1

**Sample ID: MW-21-10**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-09	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 14:45	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	80.7	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFHxA	IS	86.4	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C3-HFPO-DA	IS	82.1	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C4-PFHpA	IS	88.3	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C3-PFHxS	IS	71.1	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-6:2 FTS	IS	89.4	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFOA	IS	79.1	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C5-PFNA	IS	90.6	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C8-PFOA	IS	76.8	10 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C8-PFOS	IS	79.4	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFDA	IS	84.5	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-8:2 FTS	IS	92.1	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
d3-MeFOSAA	IS	72.1	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
d5-EtFOSAA	IS	75.4	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFUnA	IS	80.5	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFDoA	IS	76.6	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
d3-MeFOSA	IS	38.1	10 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
13C2-PFTeDA	IS	81.0	25 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
d5-EtFOSA	IS	36.0	10 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	1
d7-MeFOSE	IS	70.2	10 - 150		B23H175	21-Aug-23	0.241 L	28-Aug-23 20:40	1
d9-EtFOSE	IS	64.0	10 - 150		B23H175	21-Aug-23	0.241 L	27-Aug-23 16:52	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:	2308119-10	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 08:15	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.34	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFPeA	2706-90-3	15.7	1.31	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFBS	375-73-5	3.36	1.15	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
4:2 FTS	757124-72-4	<1.32	1.32	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFHxA	307-24-4	35.2	1.27	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFPeS	2706-91-4	<1.75	1.75	2.02		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:51	1
HFPO-DA	13252-13-6	<1.97	1.97	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFHpA	375-85-9	19.7	0.882	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
ADONA	919005-14-4	<1.10	1.10	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFHxS	355-46-4	6.95	1.43	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
6:2 FTS	27619-97-2	2.56	1.47	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFOA	335-67-1	98.4	1.12	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFHpS	375-92-8	<1.65	1.65	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFNA	375-95-1	6.93	1.25	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFOSA	754-91-6	12.6	1.74	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFOS	1763-23-1	79.8	1.87	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
9Cl-PF3ONS	756426-58-1	<1.51	1.51	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFDA	335-76-2	11.7	1.22	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
8:2 FTS	39108-34-4	3.46	1.73	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFNS	68259-12-1	<1.66	1.66	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
MeFOSAA	2355-31-9	1.88	1.39	2.02	J, Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
EtFOSAA	2991-50-6	10.7	1.35	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFUnA	2058-94-8	2.11	1.08	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFDS	335-77-3	<1.56	1.56	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFDoA	307-55-1	<1.34	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
MeFOSA	31506-32-8	<3.02	3.02	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFTTrDA	72629-94-8	<1.41	1.41	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFDoS	79780-39-5	<1.74	1.74	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
PFTeDA	376-06-7	<1.16	1.16	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
EtFOSA	4151-50-2	<2.47	2.47	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
MeFOSE	24448-09-7	<2.36	2.36	2.52		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:51	1
EtFOSE	1691-99-2	<2.13	2.13	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	22.5	25 - 150	H	B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C3-PFPeA	IS	80.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C3-PFBS	IS	97.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1

**Sample ID: MW-21-11**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-10	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 08:15	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	97.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFHxA	IS	98.0	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C3-HFPO-DA	IS	97.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C4-PFHpA	IS	102	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C3-PFHxS	IS	101	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-6:2 FTS	IS	92.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFOA	IS	98.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C5-PFNA	IS	99.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C8-PFOA	IS	78.0	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C8-PFOS	IS	77.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFDA	IS	88.4	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-8:2 FTS	IS	85.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
d3-MeFOSAA	IS	86.2	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
d5-EtFOSAA	IS	95.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFUnA	IS	89.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFDoA	IS	84.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
d3-MeFOSA	IS	27.1	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
13C2-PFTeDA	IS	81.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
d5-EtFOSA	IS	21.9	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	1
d7-MeFOSE	IS	52.0	10 - 150		B23H175	21-Aug-23	0.248 L	28-Aug-23 20:51	1
d9-EtFOSE	IS	55.0	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 17:02	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:	2308119-11	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 10:10	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	21.6	1.34	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFPeA	2706-90-3	23.4	1.31	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFBS	375-73-5	4.80	1.15	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
4:2 FTS	757124-72-4	<1.32	1.32	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFHxA	307-24-4	36.4	1.27	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFPeS	2706-91-4	5.85	1.75	2.02		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:01	1
HFPO-DA	13252-13-6	<1.97	1.97	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFHpA	375-85-9	33.1	0.885	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
ADONA	919005-14-4	<1.11	1.11	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFHxS	355-46-4	24.1	1.44	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
6:2 FTS	27619-97-2	<1.47	1.47	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFOA	335-67-1	188	1.12	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFHpS	375-92-8	2.49	1.65	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFNA	375-95-1	5.89	1.26	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFOSA	754-91-6	36.7	1.75	2.02	Q	B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFOS	1763-23-1	160	1.88	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
9Cl-PF3ONS	756426-58-1	<1.52	1.52	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFDA	335-76-2	<1.22	1.22	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
8:2 FTS	39108-34-4	<1.73	1.73	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFNS	68259-12-1	<1.66	1.66	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
MeFOSAA	2355-31-9	<1.40	1.40	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
EtFOSAA	2991-50-6	<1.35	1.35	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFUnA	2058-94-8	<1.08	1.08	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFDS	335-77-3	<1.56	1.56	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
11Cl-PF3OUdS	763051-92-9	<1.21	1.21	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFDoA	307-55-1	<1.35	1.35	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
MeFOSA	31506-32-8	<3.03	3.03	4.05		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFTTrDA	72629-94-8	<1.41	1.41	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFDoS	79780-39-5	<1.75	1.75	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
PFTeDA	376-06-7	<1.16	1.16	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
EtFOSA	4151-50-2	<2.48	2.48	4.05		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
MeFOSE	24448-09-7	<2.37	2.37	2.53		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:01	1
EtFOSE	1691-99-2	<2.13	2.13	4.05		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.9	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C3-PFPeA	IS	92.2	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C3-PFBS	IS	83.6	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1

**Sample ID: MW-22-12**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-11	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 10:10	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	108	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFHxA	IS	99.8	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C3-HFPO-DA	IS	87.7	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C4-PFHpA	IS	98.1	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C3-PFHxS	IS	85.4	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-6:2 FTS	IS	98.0	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFOA	IS	93.6	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C5-PFNA	IS	104	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C8-PFOA	IS	68.3	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C8-PFOS	IS	88.9	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFDA	IS	83.7	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-8:2 FTS	IS	93.1	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
d3-MeFOSAA	IS	86.3	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
d5-EtFOSAA	IS	90.9	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFUnA	IS	86.2	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFDoA	IS	81.5	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
d3-MeFOSA	IS	32.6	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
13C2-PFTeDA	IS	93.0	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
d5-EtFOSA	IS	32.1	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	1
d7-MeFOSE	IS	73.9	10 - 150		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:01	1
d9-EtFOSE	IS	67.4	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 17:13	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:	2308119-12	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 11:40	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.31	1.31	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFPeA	2706-90-3	<1.28	1.28	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFBS	375-73-5	<1.13	1.13	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
4:2 FTS	757124-72-4	<1.29	1.29	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFHxA	307-24-4	<1.24	1.24	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFPeS	2706-91-4	<1.71	1.71	1.98		B23H175	21-Aug-23	0.253 L	28-Aug-23 21:11	1
HFPO-DA	13252-13-6	<1.93	1.93	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFHpA	375-85-9	<0.864	0.864	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
ADONA	919005-14-4	<1.08	1.08	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFHxS	355-46-4	<1.40	1.40	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
6:2 FTS	27619-97-2	<1.44	1.44	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFOA	335-67-1	<1.10	1.10	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFHpS	375-92-8	<1.62	1.62	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFNA	375-95-1	<1.23	1.23	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFOSA	754-91-6	<1.71	1.71	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFOS	1763-23-1	<1.84	1.84	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
9Cl-PF3ONS	756426-58-1	<1.48	1.48	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFDA	335-76-2	<1.20	1.20	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
8:2 FTS	39108-34-4	<1.69	1.69	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFNS	68259-12-1	<1.62	1.62	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
MeFOSAA	2355-31-9	<1.36	1.36	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
EtFOSAA	2991-50-6	<1.32	1.32	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFUnA	2058-94-8	<1.06	1.06	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFDS	335-77-3	<1.53	1.53	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
11Cl-PF3OUdS	763051-92-9	<1.18	1.18	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFDoA	307-55-1	<1.31	1.31	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
MeFOSA	31506-32-8	<2.96	2.96	3.95		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFTrDA	72629-94-8	<1.38	1.38	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFDoS	79780-39-5	<1.71	1.71	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
PFTeDA	376-06-7	<1.14	1.14	1.98		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
EtFOSA	4151-50-2	<2.43	2.43	3.95		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
MeFOSE	24448-09-7	<2.32	2.32	2.47		B23H175	21-Aug-23	0.253 L	28-Aug-23 21:11	1
EtFOSE	1691-99-2	<2.08	2.08	3.95		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.5	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C3-PFPeA	IS	96.8	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C3-PFBS	IS	98.3	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1

**Sample ID: MW-22-13**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-12	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 11:40	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	109	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFHxA	IS	104	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C3-HFPO-DA	IS	104	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C4-PFHpA	IS	102	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C3-PFHxS	IS	97.0	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-6:2 FTS	IS	107	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFOA	IS	96.9	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C5-PFNA	IS	98.6	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C8-PFOA	IS	85.4	10 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C8-PFOS	IS	94.2	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFDA	IS	94.7	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-8:2 FTS	IS	105	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
d3-MeFOSAA	IS	93.2	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
d5-EtFOSAA	IS	104	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFUnA	IS	95.7	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFDoA	IS	85.7	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
d3-MeFOSA	IS	36.4	10 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
13C2-PFTeDA	IS	87.2	25 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
d5-EtFOSA	IS	31.9	10 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	1
d7-MeFOSE	IS	60.2	10 - 150		B23H175	21-Aug-23	0.253 L	28-Aug-23 21:11	1
d9-EtFOSE	IS	54.1	10 - 150		B23H175	21-Aug-23	0.253 L	27-Aug-23 17:54	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-22-14**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-13	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 11:25	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	34.5	1.36	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFPeA	2706-90-3	57.0	1.34	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFBS	375-73-5	7.37	1.17	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
4:2 FTS	757124-72-4	<1.34	1.34	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFHxA	307-24-4	65.6	1.30	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFPeS	2706-91-4	5.38	1.78	2.06		B23H175	21-Aug-23	0.243 L	28-Aug-23 21:32	1
HFPO-DA	13252-13-6	<2.01	2.01	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFHpA	375-85-9	93.6	0.900	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
ADONA	919005-14-4	<1.13	1.13	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFHxS	355-46-4	47.6	1.46	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
6:2 FTS	27619-97-2	1.96	1.50	2.06	J	B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFOA	335-67-1	687	1.14	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFHpS	375-92-8	34.4	1.68	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFNA	375-95-1	116	1.28	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFOSA	754-91-6	62.4	1.78	2.06	Q	B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFOS	1763-23-1	2280	19.1	20.6	D	B23H175	21-Aug-23	0.243 L	28-Aug-23 21:22	10
9Cl-PF3ONS	756426-58-1	<1.54	1.54	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFDA	335-76-2	18.8	1.24	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
8:2 FTS	39108-34-4	4.58	1.76	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFNS	68259-12-1	<1.69	1.69	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
MeFOSAA	2355-31-9	14.7	1.42	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
EtFOSAA	2991-50-6	87.3	1.37	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFUnA	2058-94-8	<1.10	1.10	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFDS	335-77-3	<1.59	1.59	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
11Cl-PF3OUdS	763051-92-9	<1.23	1.23	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFDoA	307-55-1	<1.37	1.37	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
MeFOSA	31506-32-8	<3.09	3.09	4.11		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFTrDA	72629-94-8	<1.43	1.43	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFDoS	79780-39-5	<1.78	1.78	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
PFTeDA	376-06-7	<1.18	1.18	2.06		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
EtFOSA	4151-50-2	<2.52	2.52	4.11		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
MeFOSE	24448-09-7	<2.41	2.41	2.57		B23H175	21-Aug-23	0.243 L	28-Aug-23 21:32	1
EtFOSE	1691-99-2	<2.17	2.17	4.11		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	67.4	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C3-PFPeA	IS	91.7	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C3-PFBS	IS	105	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1

**Sample ID: MW-22-14**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-13	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 11:25	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	99.8	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-PFHxA	IS	97.5	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C3-HFPO-DA	IS	92.8	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C4-PFHpA	IS	98.1	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C3-PFHxS	IS	92.6	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-6:2 FTS	IS	96.2	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-PFOA	IS	97.7	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C5-PFNA	IS	92.9	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C8-PFOA	IS	74.3	10 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C8-PFOS	IS	127	25 - 150	D	B23H175	21-Aug-23	0.243 L	28-Aug-23 21:22	10
13C2-PFDA	IS	93.4	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-8:2 FTS	IS	103	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
d3-MeFOSAA	IS	86.0	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
d5-EtFOSAA	IS	105	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-PFUnA	IS	93.3	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-PFDoA	IS	85.4	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
d3-MeFOSA	IS	32.8	10 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
13C2-PFTeDA	IS	89.4	25 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
d5-EtFOSA	IS	31.1	10 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	1
d7-MeFOSE	IS	69.8	10 - 150		B23H175	21-Aug-23	0.243 L	28-Aug-23 21:32	1
d9-EtFOSE	IS	64.1	10 - 150		B23H175	21-Aug-23	0.243 L	27-Aug-23 18:05	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: MW-22-15**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-14	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 07:50	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.34	1.34	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFPeA	2706-90-3	14.9	1.31	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFBS	375-73-5	<1.15	1.15	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
4:2 FTS	757124-72-4	<1.32	1.32	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFHxA	307-24-4	14.3	1.27	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFPeS	2706-91-4	<1.75	1.75	2.02		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:53	1
HFPO-DA	13252-13-6	<1.97	1.97	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFHpA	375-85-9	11.7	0.884	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
ADONA	919005-14-4	<1.11	1.11	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFHxS	355-46-4	5.40	1.44	2.02	Q	B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
6:2 FTS	27619-97-2	<1.47	1.47	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFOA	335-67-1	43.6	1.12	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFHpS	375-92-8	<1.65	1.65	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFNA	375-95-1	2.48	1.26	2.02	Q	B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFOSA	754-91-6	14.2	1.75	2.02	Q	B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFOS	1763-23-1	37.8	1.88	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
9Cl-PF3ONS	756426-58-1	<1.52	1.52	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFDA	335-76-2	1.38	1.22	2.02	J	B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
8:2 FTS	39108-34-4	<1.73	1.73	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFNS	68259-12-1	<1.66	1.66	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
MeFOSAA	2355-31-9	<1.39	1.39	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
EtFOSAA	2991-50-6	8.45	1.35	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFUnA	2058-94-8	<1.08	1.08	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFDS	335-77-3	<1.56	1.56	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
11Cl-PF3OUdS	763051-92-9	<1.21	1.21	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFDoA	307-55-1	<1.34	1.34	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
MeFOSA	31506-32-8	<3.03	3.03	4.04		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFTrDA	72629-94-8	<1.41	1.41	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFDoS	79780-39-5	<1.75	1.75	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
PFTeDA	376-06-7	<1.16	1.16	2.02		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
EtFOSA	4151-50-2	<2.48	2.48	4.04		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
MeFOSE	24448-09-7	<2.37	2.37	2.53		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:53	1
EtFOSE	1691-99-2	<2.13	2.13	4.04		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	56.2	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C3-PFPeA	IS	89.7	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C3-PFBS	IS	102	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1

**Sample ID: MW-22-15**

**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-14	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 07:50	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	112	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFHxA	IS	101	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C3-HFPO-DA	IS	97.9	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C4-PFHpA	IS	102	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C3-PFHxS	IS	86.3	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-6:2 FTS	IS	109	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFOA	IS	101	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C5-PFNA	IS	103	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C8-PFOA	IS	63.2	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C8-PFOS	IS	96.5	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFDA	IS	84.3	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-8:2 FTS	IS	108	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
d3-MeFOSAA	IS	82.3	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
d5-EtFOSAA	IS	83.8	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFUnA	IS	88.2	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFDoA	IS	88.0	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
d3-MeFOSA	IS	34.6	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
13C2-PFTeDA	IS	90.4	25 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
d5-EtFOSA	IS	31.2	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	1
d7-MeFOSE	IS	71.2	10 - 150		B23H175	21-Aug-23	0.247 L	28-Aug-23 21:53	1
d9-EtFOSE	IS	63.6	10 - 150		B23H175	21-Aug-23	0.247 L	27-Aug-23 18:15	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: Dup-1**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-15	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 00:00	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.81	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFPeA	2706-90-3	10.7	1.31	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFBS	375-73-5	3.28	1.15	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
4:2 FTS	757124-72-4	<1.31	1.31	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFHxA	307-24-4	12.2	1.27	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFPeS	2706-91-4	<1.75	1.75	2.02		B23H175	21-Aug-23	0.248 L	28-Aug-23 22:35	1
HFPO-DA	13252-13-6	<1.96	1.96	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFHpA	375-85-9	6.52	0.882	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
ADONA	919005-14-4	<1.10	1.10	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFHxS	355-46-4	2.59	1.43	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
6:2 FTS	27619-97-2	<1.47	1.47	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFOA	335-67-1	27.3	1.12	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFHpS	375-92-8	<1.65	1.65	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFNA	375-95-1	2.82	1.25	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFOSA	754-91-6	12.6	1.74	2.02	Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFOS	1763-23-1	74.2	1.87	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
9Cl-PF3ONS	756426-58-1	<1.51	1.51	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFDA	335-76-2	1.42	1.22	2.02	J, Q	B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
8:2 FTS	39108-34-4	<1.73	1.73	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFNS	68259-12-1	<1.66	1.66	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
MeFOSAA	2355-31-9	<1.39	1.39	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
EtFOSAA	2991-50-6	9.02	1.35	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFUnA	2058-94-8	<1.08	1.08	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFDS	335-77-3	<1.56	1.56	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
11Cl-PF3OUdS	763051-92-9	<1.20	1.20	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFDoA	307-55-1	<1.34	1.34	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
MeFOSA	31506-32-8	<3.02	3.02	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFTTrDA	72629-94-8	<1.41	1.41	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFDoS	79780-39-5	<1.74	1.74	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
PFTeDA	376-06-7	<1.16	1.16	2.02		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
EtFOSA	4151-50-2	<2.47	2.47	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
MeFOSE	24448-09-7	<2.36	2.36	2.52		B23H175	21-Aug-23	0.248 L	28-Aug-23 22:35	1
EtFOSE	1691-99-2	<2.13	2.13	4.03		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	77.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C3-PFPeA	IS	88.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C3-PFBS	IS	79.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1

**Sample ID: Dup-1**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-15	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 00:00	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	91.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFHxA	IS	92.6	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C3-HFPO-DA	IS	98.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C4-PFHpA	IS	96.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C3-PFHxS	IS	94.4	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-6:2 FTS	IS	101	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFOA	IS	92.1	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C5-PFNA	IS	92.4	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C8-PFOA	IS	58.1	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C8-PFOS	IS	85.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFDA	IS	93.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-8:2 FTS	IS	93.9	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
d3-MeFOSAA	IS	91.8	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
d5-EtFOSAA	IS	106	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFUnA	IS	85.7	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFDoA	IS	79.3	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
d3-MeFOSA	IS	29.6	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
13C2-PFTeDA	IS	80.5	25 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
d5-EtFOSA	IS	28.8	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	1
d7-MeFOSE	IS	73.4	10 - 150		B23H175	21-Aug-23	0.248 L	28-Aug-23 22:35	1
d9-EtFOSE	IS	65.7	10 - 150		B23H175	21-Aug-23	0.248 L	27-Aug-23 18:25	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.

**Sample ID: Dup-2**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-16	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 00:00	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.32	1.32	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFPeA	2706-90-3	14.3	1.30	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFBS	375-73-5	<1.14	1.14	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
4:2 FTS	757124-72-4	<1.30	1.30	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFHxA	307-24-4	13.1	1.26	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFPeS	2706-91-4	<1.73	1.73	1.99		B23H175	21-Aug-23	0.251 L	28-Aug-23 22:45	1
HFPO-DA	13252-13-6	<1.94	1.94	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFHpA	375-85-9	10.5	0.873	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
ADONA	919005-14-4	<1.09	1.09	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFHxS	355-46-4	3.19	1.42	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
6:2 FTS	27619-97-2	<1.45	1.45	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFOA	335-67-1	46.4	1.11	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFHpS	375-92-8	<1.63	1.63	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFNA	375-95-1	2.32	1.24	1.99	Q	B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFOSA	754-91-6	42.0	1.73	1.99	Q	B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFOS	1763-23-1	40.8	1.85	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
9Cl-PF3ONS	756426-58-1	<1.50	1.50	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFDA	335-76-2	<1.21	1.21	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
8:2 FTS	39108-34-4	<1.71	1.71	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFNS	68259-12-1	<1.64	1.64	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
MeFOSAA	2355-31-9	<1.38	1.38	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
EtFOSAA	2991-50-6	7.76	1.33	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFUnA	2058-94-8	<1.07	1.07	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFDS	335-77-3	<1.54	1.54	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
11Cl-PF3OUdS	763051-92-9	<1.19	1.19	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFDoA	307-55-1	<1.33	1.33	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
MeFOSA	31506-32-8	<2.99	2.99	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFTrDA	72629-94-8	<1.39	1.39	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFDoS	79780-39-5	<1.73	1.73	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
PFTeDA	376-06-7	<1.15	1.15	1.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
EtFOSA	4151-50-2	<2.45	2.45	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
MeFOSE	24448-09-7	<2.34	2.34	2.49		B23H175	21-Aug-23	0.251 L	28-Aug-23 22:45	1
EtFOSE	1691-99-2	<2.10	2.10	3.99		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	52.9	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C3-PFPeA	IS	80.8	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C3-PFBS	IS	96.6	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1

**Sample ID: Dup-2**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-16	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	10-Aug-23 00:00	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	118	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFHxA	IS	92.2	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C3-HFPO-DA	IS	91.1	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C4-PFHpA	IS	102	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C3-PFHxS	IS	98.5	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-6:2 FTS	IS	107	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFOA	IS	95.8	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C5-PFNA	IS	110	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C8-PFOA	IS	61.4	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C8-PFOS	IS	87.4	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFDA	IS	94.4	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-8:2 FTS	IS	103	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
d3-MeFOSAA	IS	90.1	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
d5-EtFOSAA	IS	91.0	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFUnA	IS	87.5	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFDoA	IS	84.9	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
d3-MeFOSA	IS	42.8	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
13C2-PFTeDA	IS	89.1	25 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
d5-EtFOSA	IS	38.1	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	1
d7-MeFOSE	IS	72.2	10 - 150		B23H175	21-Aug-23	0.251 L	28-Aug-23 22:45	1
d9-EtFOSE	IS	61.2	10 - 150		B23H175	21-Aug-23	0.251 L	27-Aug-23 18:36	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:	2308119-17	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 07:30	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.30	1.30	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFPeA	2706-90-3	<1.28	1.28	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFBS	375-73-5	<1.12	1.12	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
4:2 FTS	757124-72-4	<1.28	1.28	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFHxA	307-24-4	<1.24	1.24	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFPeS	2706-91-4	<1.71	1.71	1.97		B23H175	21-Aug-23	0.254 L	28-Aug-23 22:55	1
HFPO-DA	13252-13-6	<1.92	1.92	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFHpA	375-85-9	<0.860	0.860	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
ADONA	919005-14-4	<1.08	1.08	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFHxS	355-46-4	<1.40	1.40	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
6:2 FTS	27619-97-2	<1.43	1.43	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFOA	335-67-1	<1.09	1.09	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFHpS	375-92-8	<1.61	1.61	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFNA	375-95-1	<1.22	1.22	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFOSA	754-91-6	<1.70	1.70	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFOS	1763-23-1	<1.83	1.83	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
9Cl-PF3ONS	756426-58-1	<1.47	1.47	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFDA	335-76-2	<1.19	1.19	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
8:2 FTS	39108-34-4	<1.69	1.69	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFNS	68259-12-1	<1.62	1.62	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
MeFOSAA	2355-31-9	<1.36	1.36	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
EtFOSAA	2991-50-6	<1.31	1.31	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFUnA	2058-94-8	<1.05	1.05	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFDS	335-77-3	<1.52	1.52	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
11Cl-PF3OUdS	763051-92-9	<1.17	1.17	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFDoA	307-55-1	<1.31	1.31	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
MeFOSA	31506-32-8	<2.95	2.95	3.93		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFTrDA	72629-94-8	<1.37	1.37	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFDoS	79780-39-5	<1.70	1.70	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
PFTeDA	376-06-7	<1.13	1.13	1.97		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
EtFOSA	4151-50-2	<2.41	2.41	3.93		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
MeFOSE	24448-09-7	<2.30	2.30	2.46		B23H175	21-Aug-23	0.254 L	28-Aug-23 22:55	1
EtFOSE	1691-99-2	<2.07	2.07	3.93		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	109	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C3-PFPeA	IS	103	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C3-PFBS	IS	103	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1



**Sample ID: EB-1**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-17	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 07:30	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	107	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFHxA	IS	98.0	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C3-HFPO-DA	IS	105	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C4-PFHpA	IS	103	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C3-PFHxS	IS	92.1	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-6:2 FTS	IS	107	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFOA	IS	101	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C5-PFNA	IS	105	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C8-PFOA	IS	71.5	10 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C8-PFOS	IS	96.4	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFDA	IS	95.5	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-8:2 FTS	IS	90.8	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
d3-MeFOSAA	IS	87.5	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
d5-EtFOSAA	IS	87.9	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFUnA	IS	91.7	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFDoA	IS	87.2	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
d3-MeFOSA	IS	45.4	10 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
13C2-PFTeDA	IS	91.8	25 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
d5-EtFOSA	IS	44.5	10 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	1
d7-MeFOSE	IS	63.7	10 - 150		B23H175	21-Aug-23	0.254 L	28-Aug-23 22:55	1
d9-EtFOSE	IS	55.4	10 - 150		B23H175	21-Aug-23	0.254 L	27-Aug-23 18:46	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: FB-1**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-18	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 07:35	Date Received:	11-Aug-23 09:05		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.29	1.29	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFPeA	2706-90-3	<1.27	1.27	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFBS	375-73-5	<1.11	1.11	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
4:2 FTS	757124-72-4	<1.27	1.27	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFHxA	307-24-4	<1.23	1.23	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFPeS	2706-91-4	<1.69	1.69	1.95		B23H175	21-Aug-23	0.256 L	28-Aug-23 23:06	1
HFPO-DA	13252-13-6	<1.90	1.90	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFHpA	375-85-9	<0.854	0.854	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
ADONA	919005-14-4	<1.07	1.07	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFHxS	355-46-4	<1.39	1.39	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
6:2 FTS	27619-97-2	<1.42	1.42	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFOA	335-67-1	<1.08	1.08	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFHpS	375-92-8	<1.60	1.60	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFNA	375-95-1	<1.22	1.22	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFOSA	754-91-6	<1.69	1.69	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFOS	1763-23-1	<1.82	1.82	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
9Cl-PF3ONS	756426-58-1	<1.46	1.46	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFDA	335-76-2	<1.18	1.18	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
8:2 FTS	39108-34-4	<1.67	1.67	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFNS	68259-12-1	<1.61	1.61	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
MeFOSAA	2355-31-9	<1.35	1.35	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
EtFOSAA	2991-50-6	<1.30	1.30	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFUnA	2058-94-8	<1.04	1.04	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFDS	335-77-3	<1.51	1.51	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
11Cl-PF3OUdS	763051-92-9	<1.17	1.17	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFDoA	307-55-1	<1.30	1.30	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
MeFOSA	31506-32-8	<2.93	2.93	3.90		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFTTrDA	72629-94-8	<1.36	1.36	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFDoS	79780-39-5	<1.69	1.69	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
PFTeDA	376-06-7	<1.12	1.12	1.95		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
EtFOSA	4151-50-2	<2.40	2.40	3.90		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
MeFOSE	24448-09-7	<2.29	2.29	2.44		B23H175	21-Aug-23	0.256 L	28-Aug-23 23:06	1
EtFOSE	1691-99-2	<2.06	2.06	3.90		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	106	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C3-PFPeA	IS	101	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C3-PFBS	IS	93.9	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1

**Sample ID: FB-1**
**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2308119-18	Column:	BEH C18
Project:	GP Broadway 117-4124308	Date Collected:	09-Aug-23 07:35	Date Received:	11-Aug-23 09:05		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	88.9	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFHxA	IS	98.8	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C3-HFPO-DA	IS	95.3	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C4-PFHpA	IS	102	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C3-PFHxS	IS	100	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-6:2 FTS	IS	111	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFOA	IS	99.6	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C5-PFNA	IS	103	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C8-PFOA	IS	64.9	10 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C8-PFOS	IS	105	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFDA	IS	85.1	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-8:2 FTS	IS	111	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
d3-MeFOSAA	IS	79.3	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
d5-EtFOSAA	IS	84.6	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFUnA	IS	93.8	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFDoA	IS	84.4	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
d3-MeFOSA	IS	42.0	10 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
13C2-PFTeDA	IS	89.1	25 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
d5-EtFOSA	IS	39.2	10 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	1
d7-MeFOSE	IS	57.0	10 - 150		B23H175	21-Aug-23	0.256 L	28-Aug-23 23:06	1
d9-EtFOSE	IS	54.7	10 - 150		B23H175	21-Aug-23	0.256 L	27-Aug-23 18:57	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.

### Enthalpy Analytical - EDH 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	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
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
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 can be found at [Enthalpy.com/Resources/Accreditations](http://Enthalpy.com/Resources/Accreditations).*



**For Laboratory Use Only**  
 Work Order #: 2308119 Temp: 4.0 °C  
 Storage ID: R-13 WR-2 Storage Secured:  Yes  No

Project ID: GP Broadway PO#: \_\_\_\_\_ Sampler: Connor Lanzon  
117-4124308 (name)

TAT Standard:  21 days  
 (check one): Rush (surcharge may apply)  
 14 days  7 days Other: \_\_\_\_\_

Invoice to: Name Mike Savale Company Tetra Tech Address 710 Avis Dr, ste. 100 City Ann Arbor State MI Phone # (734) 213-2204

Relinquished by (printed name and signature) Connor Lanzon Date 8/10/23 Time 12:30 Received by (printed name and signature) Marissa Sparks Date 08/11/23 Time 0905

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

SHIP TO: Enthalpy Analytical - EDH  
 1104 Windfield Way  
 El Dorado Hills, CA 95762  
 (916) 673-1520  
 ATTN: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_  
 Tracking No.: \_\_\_\_\_

Add Analysis(es) Requested	
Container(s)	Quantity
	PFAS by Isotope Dilution
	EPA 1631-Draft
	DoD QSM Table B-15
	Other: EPA 533
	EPA 537.1
	List of 29 (537.1 + 533)

**Requirements:**  
 State-specific (list state): \_\_\_\_\_  
 DoD QSM Compliant  
 PFAS List Below (or attach compound list):

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	DoD QSM Table B-15	Other: EPA 533	EPA 537.1	List of 29 (537.1 + 533)
MW-20-02	8/9	14:05		2	P	AQ				X		
MW-20-03	8/9	9:30		2	P	AQ				X		
MW-21-04	8/9	12:20		2	P	AQ				X		
MW-21-05	8/9	15:30		2	P	AQ				X		
MW-21-06	8/10	9:30		2	P	AQ				X		
MW-21-07	8/9	10:10		2	P	AQ				X		
MW-21-08	8/10	8:30		2	P	AQ				X		
MW-21-09	8/10	10:45		2	P	AQ				X		
MW-21-10	8/9	14:45		2	P	AQ				X		
MW-21-11	8/9	8:15		2	P	AQ				X		

Other Instructions/ Comments:  
Analyze for WI 33 PFAS

**SEND DOCUMENTATION AND RESULTS TO:**

Name: Mike Savale  
 Company: Tetra Tech  
 Address: 710 Avis Dr, Ste. 100  
 City: Ann Arbor State: MI Zip: 48108  
 Phone: \_\_\_\_\_  
 Email: michael.savale@tetratech.com

Container Types: P= HDPE, PJ= HDPE Jar  
 PY= Polypropylene, O = Other: \_\_\_\_\_  
 Bottle Preservation Type: \_\_\_\_\_  
 TZ = Trizma; AA = Amm. Acetate: \_\_\_\_\_  
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue  
 SL = Sludge, SO = Soil, WW = Wastewater, O = Other: \_\_\_\_\_

**CHAIN OF CUSTODY**  
PFAS Methods

**For Laboratory Use Only**  
 Work Order #: 2308119 Temp: 4.0 °C  
 Storage ID: R13, W2-2 Storage Secured:  Yes  No

 Project ID: GP Broadway PO#: \_\_\_\_\_ Sampler: Connor Lanson  
117-4124308 (name)

 TAT Standard:  21 days  
 (check one): Rush (surcharge may apply)  
 14 days  7 days Other: \_\_\_\_\_

 Invoice to: Name Mike Savale Company Tetra Tech Address 710 Avis Dr, Ste. 100 City Ann Arbor State MI Phone # (734) 213-2204

 Relinquished by (printed name and signature) Connor Lanson Date 8/10/23 Time 12:30 Received by (printed name and signature) Marissa Sparks Date 08/11/23 Time 0905

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

 SHIP TO: Enthalpy Analytical - EDH  
 1104 Windfield Way  
 El Dorado Hills, CA 95762  
 (916) 673-1520  
 ATTN: \_\_\_\_\_

 Method of Shipment: \_\_\_\_\_  
 Tracking No.: \_\_\_\_\_

Container(s)	Add Analysis(es) Requested									
	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1632-Draft	Pop OSM Table B-15	Other:	EPA 533	EPA 537.1	List of 29 (537.1 + 533)

- Requirements:**
- State-specific (list state): \_\_\_\_\_
- DoD QSM Compliant
- PFAS List Below (or attach compound list):

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1632-Draft	Pop OSM Table B-15	Other:	EPA 533	EPA 537.1	List of 29 (537.1 + 533)
MW-22-12	8/10	10:10		2	P	AQ				X			
MW-22-13	8/10	11:40		2	P	AQ				X			
MW-22-14	8/10	11:25		2	P	AQ				X			
MW-22-15	8/10	7:50		2	P	AQ				X			
Dip-1	—	—		2	P	AQ				X			
Dip-2	—	—		2	P	AQ				X			
EB-1	8/9	7:30		2	P	AQ				X			
FB-1	8/9	7:35		2	P	AQ				X			

 Name: Mike Savale  
 Company: Tetra Tech  
 Address: 710 Avis Dr., Ste. 100  
 City: Ann Arbor State: MI Zip: 48108  
 Phone: \_\_\_\_\_  
 Email: michael.savale@tetratech.com

 SEND  
 DOCUMENTATION  
 AND RESULTS TO:

 Container Types: P= HDPE, PJ= HDPE Jar      Bottle Preservation Type: \_\_\_\_\_  
 PY= Polypropylene, O = Other: \_\_\_\_\_      TZ = Trizma: \_\_\_\_\_      AA = Amm. Acetate: \_\_\_\_\_  
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue  
 SL = Sludge, SO = Soil, WW = Wastewater, O = Other: \_\_\_\_\_

# Sample Log-In Checklist

Page # 1 of 1

Work Order #: 2308119 TAT 5+2

Samples Arrival:	Date/Time <u>08/11/23 0905</u>	Initials: <u>MUS</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GLS	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Techni Ice
		<input type="radio"/> Dry Ice	<input type="radio"/> None
Temp °C: <u>2.6</u> (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N		Thermometer ID: <u>IR-3</u>
Temp °C: <u>4.0</u> (corrected)			

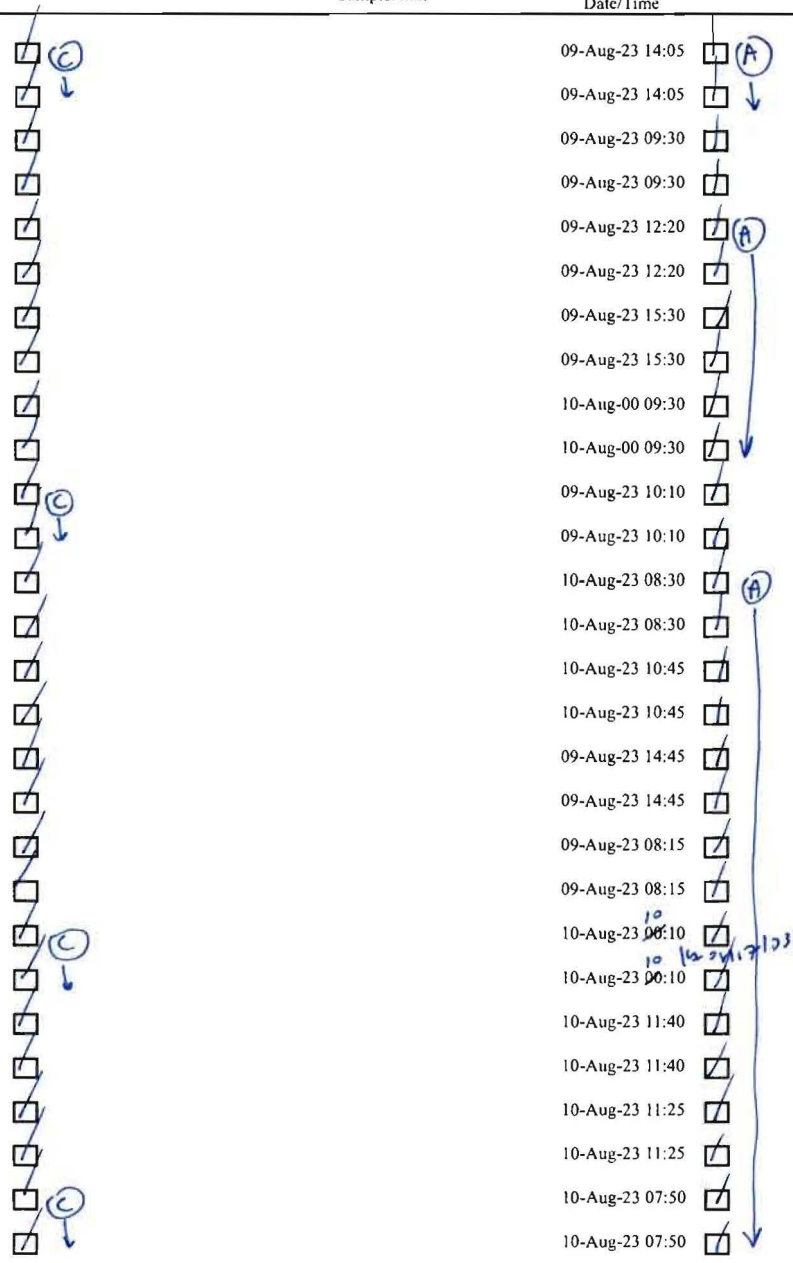
	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>—</u> Trk # <u>7823 2159 1596</u>	<input checked="" 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"/> Enthalpy	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
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>08/18/23 14:47</u>	Initials: <u>JS</u>	Location: <u>R-13, WR-2</u>
			Shelf/Rack: <u>A-2, B-6</u>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

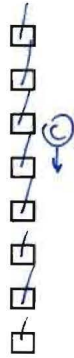


# CoC/Label Reconciliation Report WO# 2308119

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2308119-01	A MW-20-02		09-Aug-23 14:05	HDPE Bottle, 250 mL	Aqueous	
2308119-01	B MW-20-02		09-Aug-23 14:05	HDPE Bottle, 250 mL	Aqueous	
2308119-02	A MW-20-03		09-Aug-23 09:30	HDPE Bottle, 250 mL	Aqueous	
2308119-02	B MW-20-03		09-Aug-23 09:30	HDPE Bottle, 250 mL	Aqueous	
2308119-03	A MW-21-04		09-Aug-23 12:20	HDPE Bottle, 250 mL	Aqueous	
2308119-03	B MW-21-04		09-Aug-23 12:20	HDPE Bottle, 250 mL	Aqueous	
2308119-04	A MW-21-05		09-Aug-23 15:30	HDPE Bottle, 250 mL	Aqueous	
2308119-04	B MW-21-05		09-Aug-23 15:30	HDPE Bottle, 250 mL	Aqueous	
2308119-05	A MW-21-06		10-Aug-00 09:30	HDPE Bottle, 250 mL	Aqueous	
2308119-05	B MW-21-06		10-Aug-00 09:30	HDPE Bottle, 250 mL	Aqueous	
2308119-06	A MW-21-07		09-Aug-23 10:10	HDPE Bottle, 250 mL	Aqueous	
2308119-06	B MW-21-07		09-Aug-23 10:10	HDPE Bottle, 250 mL	Aqueous	
2308119-07	A MW-21-08		10-Aug-23 08:30	HDPE Bottle, 250 mL	Aqueous	
2308119-07	B MW-21-08		10-Aug-23 08:30	HDPE Bottle, 250 mL	Aqueous	
2308119-08	A MW-21-09		10-Aug-23 10:45	HDPE Bottle, 250 mL	Aqueous	
2308119-08	B MW-21-09		10-Aug-23 10:45	HDPE Bottle, 250 mL	Aqueous	
2308119-09	A MW-21-10		09-Aug-23 14:45	HDPE Bottle, 250 mL	Aqueous	
2308119-09	B MW-21-10		09-Aug-23 14:45	HDPE Bottle, 250 mL	Aqueous	
2308119-10	A MW-21-11		09-Aug-23 08:15	HDPE Bottle, 250 mL	Aqueous	
2308119-10	B MW-21-11		09-Aug-23 08:15	HDPE Bottle, 250 mL	Aqueous	
2308119-11	A MW-22-12		10-Aug-23 00:10	HDPE Bottle, 250 mL	Aqueous	
2308119-11	B MW-22-12		10-Aug-23 00:10	HDPE Bottle, 250 mL	Aqueous	
2308119-12	A MW-22-13		10-Aug-23 11:40	HDPE Bottle, 250 mL	Aqueous	
2308119-12	B MW-22-13		10-Aug-23 11:40	HDPE Bottle, 250 mL	Aqueous	
2308119-13	A MW-22-14		10-Aug-23 11:25	HDPE Bottle, 250 mL	Aqueous	
2308119-13	B MW-22-14		10-Aug-23 11:25	HDPE Bottle, 250 mL	Aqueous	
2308119-14	A MW-22-15		10-Aug-23 07:50	HDPE Bottle, 250 mL	Aqueous	
2308119-14	B MW-22-15		10-Aug-23 07:50	HDPE Bottle, 250 mL	Aqueous	



2308119-15 A Dup-1  
 2308119-15 B Dup-1  
 2308119-16 A Dup-2  
 2308119-16 B Dup-2  
 2308119-17 A EB-1  
 2308119-17 B EB-1  
 2308119-18 A FB-1  
 2308119-18 B FB-1



09-Aug-23 00:00	<input type="checkbox"/> (B) (E)	HDPE Bottle, 250 mL	Aqueous	
09-Aug-23 00:00	<input type="checkbox"/> ↓	HDPE Bottle, 250 mL	Aqueous	
10-Aug-23 00:00	<input type="checkbox"/> (D)	HDPE Bottle, 250 mL	Aqueous	
10-Aug-23 00:00	<input type="checkbox"/> ↓	HDPE Bottle, 250 mL	Aqueous	
09-Aug-23 07:30	<input checked="" type="checkbox"/> (A)	HDPE Bottle, 250 mL	Aqueous	Equipment Blank
09-Aug-23 07:30	<input checked="" type="checkbox"/> ↓	HDPE Bottle, 250 mL	Aqueous	Equipment Blank
09-Aug-23 07:35	<input checked="" type="checkbox"/> ↓	HDPE Bottle, 250 mL	Aqueous	Field Blank
09-Aug-23 07:35	<input checked="" type="checkbox"/> ↓	HDPE Bottle, 250 mL	Aqueous	Field Blank

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: (A) No year listed on sample label Date  
 (B) Per client email request Date: 08/09/23. <sup>SMT 08/15/23</sup> EOE No time present on COC  
 (C) Sample has rust tint  
 (D) Per client email request Date: 08/10/23. No time present on COC  
 (E) No sample label Date/Time

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date: SMT 08/15/23