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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78015-1
Client Project/Site: PFAS Testing

For:
City of Eau Claire
1000 Ferry Street
Eau Claire, Wisconsin 54703

Attn: Ty Fadness

Sandra Fredrick

Authorized for release by:
8/27/2021 11:22:04 AM

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Definitions/Glossary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Qualifiers

LCMS

Qualifier	Qualifier Description
C	See Case Narrative
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

Case Narrative

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Job ID: 320-78015-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78015-1

Comments
No additional comments.

Receipt
The samples were received on 8/26/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

LCMS
Method 537 (modified): The transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte: Well 22 (320-78015-3) and Well 24 (320-78015-7).

Method 537 (modified): The transition mass ratio for Perfluorooctanesulfonic acid (PFOS) was outside of the established ratio limits in the low level continuing calibration verification (CCVL). The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. The percent difference was within control limits; therefore there is no impact on the data due to the mass ration outside established ratio limits: (CCVL 320-520223/2).

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

Organic Prep
Method 3535: The following samples were preserved with trizma: Entry Point Line 1 (320-78015-1), Entry Point FB (320-78015-2), Well 22 (320-78015-3), Well 16 (320-78015-4), Well 14 (320-78015-5), Well 9 (320-78015-6), Well 24 (320-78015-7) and Well 17 (320-78015-8). Thus, the MB, LCS and LCSD also contain trizma. 3535_PFC Aqueous preparation batch 320-520019

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-520019. 3535_PFC Aqueous

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

Detection Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point Line 1 — Lab Sample ID: 320-78015-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.3	J	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.4		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.76	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.0		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		1.9	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.5	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Entry Point FB — Lab Sample ID: 320-78015-2

No Detections.

Client Sample ID: Well 22 — Lab Sample ID: 320-78015-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.7		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	15		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	13		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.2		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.7		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.5		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	8.4		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	39		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.62	J C	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	9.0		1.7	0.47	ng/L	1		537 (modified)	Total/NA
6:2 FTS	20		4.3	2.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 16 — Lab Sample ID: 320-78015-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.1		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.9		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.89	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.0		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.2		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.4		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	70		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	34		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 14 — Lab Sample ID: 320-78015-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.96	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample ID: Well 14 (Continued) — Lab Sample ID: 320-78015-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	8.2		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		1.8	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 9 — Lab Sample ID: 320-78015-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.3	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.32	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.0	J	1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.95	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.83	J	1.7	0.46	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 24 — Lab Sample ID: 320-78015-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.6		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.73	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.8		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.7		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J C	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.8		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 17 — Lab Sample ID: 320-78015-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.3	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.87	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.9		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.4		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	42		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.82	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		1.7	0.46	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point Line 1

Date Collected: 08/25/21 10:00
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.3**	**J**	4.7	2.2	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoropentanoic acid (PFPeA)	**2.4**		1.9	0.46	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorohexanoic acid (PFHxA)	**2.1**		1.9	0.54	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoroheptanoic acid (PFHpA)	**0.76**	**J**	1.9	0.23	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorooctanoic acid (PFOA)	**1.6**	**J**	1.9	0.79	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorobutanesulfonic acid (PFBS)	**2.3**		1.9	0.19	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoropentanesulfonic acid (PFPeS)	**2.0**		1.9	0.28	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorohexanesulfonic acid (PFHxS)	**12**		1.9	0.53	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorooctanesulfonic acid (PFOS)	**4.6**		1.9	0.50	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		08/26/21 11:50	08/27/21 06:04	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		08/26/21 11:50	08/27/21 06:04	1
NEtFOSA	<0.81		1.9	0.81	ng/L		08/26/21 11:50	08/27/21 06:04	1
NMeFOSA	<0.40		1.9	0.40	ng/L		08/26/21 11:50	08/27/21 06:04	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		08/26/21 11:50	08/27/21 06:04	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		08/26/21 11:50	08/27/21 06:04	1
NMeFOSE	<1.3		3.7	1.3	ng/L		08/26/21 11:50	08/27/21 06:04	1
NEtFOSE	<0.79		1.9	0.79	ng/L		08/26/21 11:50	08/27/21 06:04	1
4:2 FTS	<0.22		1.9	0.22	ng/L		08/26/21 11:50	08/27/21 06:04	1
6:2 FTS	**2.5**	**J**	4.7	2.3	ng/L		08/26/21 11:50	08/27/21 06:04	1
8:2 FTS	<0.43		1.9	0.43	ng/L		08/26/21 11:50	08/27/21 06:04	1
10:2 FTS	<0.62		1.9	0.62	ng/L		08/26/21 11:50	08/27/21 06:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		08/26/21 11:50	08/27/21 06:04	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		08/26/21 11:50	08/27/21 06:04	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		08/26/21 11:50	08/27/21 06:04	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		08/26/21 11:50	08/27/21 06:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*57*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:04*	*1*
13C5 PFPeA	*65*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:04*	*1*
13C2 PFHxA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:04*	*1*
13C4 PFHpA	*73*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:04*	*1*
13C4 PFOA	*78*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:04*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point Line 1
Date Collected: 08/25/21 10:00
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	71		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 PFDA	73		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 PFUnA	75		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 PFDoA	75		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 PFTeDA	74		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 PFHxDA	76		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C3 PFBS	68		25 - 150	08/26/21 11:50	08/27/21 06:04	1
18O2 PFHxS	84		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C4 PFOS	72		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C8 FOSA	72		10 - 150	08/26/21 11:50	08/27/21 06:04	1
d3-NMeFOSAA	74		25 - 150	08/26/21 11:50	08/27/21 06:04	1
d5-NEtFOSAA	91		25 - 150	08/26/21 11:50	08/27/21 06:04	1
d-N-MeFOSA-M	57		10 - 150	08/26/21 11:50	08/27/21 06:04	1
d-N-EtFOSA-M	49		10 - 150	08/26/21 11:50	08/27/21 06:04	1
d7-N-MeFOSE-M	56		10 - 150	08/26/21 11:50	08/27/21 06:04	1
d9-N-EtFOSE-M	62		10 - 150	08/26/21 11:50	08/27/21 06:04	1
M2-4:2 FTS	123		25 - 150	08/26/21 11:50	08/27/21 06:04	1
M2-6:2 FTS	106		25 - 150	08/26/21 11:50	08/27/21 06:04	1
M2-8:2 FTS	76		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C3 HFPO-DA	60		25 - 150	08/26/21 11:50	08/27/21 06:04	1
13C2 10:2 FTS	89		25 - 150	08/26/21 11:50	08/27/21 06:04	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point FB

Date Collected: 08/25/21 10:02
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85		1.8	0.85	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		08/26/21 11:50	08/27/21 06:13	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		08/26/21 11:50	08/27/21 06:13	1
NEtFOSA	<0.78		1.8	0.78	ng/L		08/26/21 11:50	08/27/21 06:13	1
NMeFOSA	<0.39		1.8	0.39	ng/L		08/26/21 11:50	08/27/21 06:13	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		08/26/21 11:50	08/27/21 06:13	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		08/26/21 11:50	08/27/21 06:13	1
NMeFOSE	<1.3		3.6	1.3	ng/L		08/26/21 11:50	08/27/21 06:13	1
NEtFOSE	<0.76		1.8	0.76	ng/L		08/26/21 11:50	08/27/21 06:13	1
4:2 FTS	<0.22		1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:13	1
6:2 FTS	<2.2		4.5	2.2	ng/L		08/26/21 11:50	08/27/21 06:13	1
8:2 FTS	<0.41		1.8	0.41	ng/L		08/26/21 11:50	08/27/21 06:13	1
10:2 FTS	<0.60		1.8	0.60	ng/L		08/26/21 11:50	08/27/21 06:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		08/26/21 11:50	08/27/21 06:13	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		08/26/21 11:50	08/27/21 06:13	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:13	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*60*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C5 PFPeA	*65*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C2 PFHxA	*63*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C4 PFHpA	*68*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C4 PFOA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C5 PFNA	*60*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C2 PFDA	*72*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*
13C2 PFUnA	*63*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:13*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point FB
Date Collected: 08/25/21 10:02
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-2
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	59		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C2 PFTeDA	65		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C2 PFHxDA	68		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C3 PFBS	65		25 - 150	08/26/21 11:50	08/27/21 06:13	1
18O2 PFHxS	70		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C4 PFOS	69		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C8 FOSA	63		10 - 150	08/26/21 11:50	08/27/21 06:13	1
d3-NMeFOSAA	65		25 - 150	08/26/21 11:50	08/27/21 06:13	1
d5-NEtFOSAA	72		25 - 150	08/26/21 11:50	08/27/21 06:13	1
d-N-MeFOSA-M	53		10 - 150	08/26/21 11:50	08/27/21 06:13	1
d-N-EtFOSA-M	45		10 - 150	08/26/21 11:50	08/27/21 06:13	1
d7-N-MeFOSE-M	56		10 - 150	08/26/21 11:50	08/27/21 06:13	1
d9-N-EtFOSE-M	54		10 - 150	08/26/21 11:50	08/27/21 06:13	1
M2-4:2 FTS	66		25 - 150	08/26/21 11:50	08/27/21 06:13	1
M2-6:2 FTS	68		25 - 150	08/26/21 11:50	08/27/21 06:13	1
M2-8:2 FTS	57		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C3 HFPO-DA	56		25 - 150	08/26/21 11:50	08/27/21 06:13	1
13C2 10:2 FTS	70		25 - 150	08/26/21 11:50	08/27/21 06:13	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 22

Date Collected: 08/25/21 10:15
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.7**		4.3	2.1	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoropentanoic acid (PFPeA)	**15**		1.7	0.42	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorohexanoic acid (PFHxA)	**13**		1.7	0.50	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoroheptanoic acid (PFHpA)	**3.2**		1.7	0.22	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorooctanoic acid (PFOA)	**4.7**		1.7	0.73	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorobutanesulfonic acid (PFBS)	**7.5**		1.7	0.17	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoropentanesulfonic acid (PFPeS)	**8.4**		1.7	0.26	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorohexanesulfonic acid (PFHxS)	**39**		1.7	0.49	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.62**	**J C**	1.7	0.16	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorooctanesulfonic acid (PFOS)	**9.0**		1.7	0.47	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		08/26/21 11:50	08/27/21 06:22	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		08/26/21 11:50	08/27/21 06:22	1
NEtFOSA	<0.75		1.7	0.75	ng/L		08/26/21 11:50	08/27/21 06:22	1
NMeFOSA	<0.37		1.7	0.37	ng/L		08/26/21 11:50	08/27/21 06:22	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		08/26/21 11:50	08/27/21 06:22	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		08/26/21 11:50	08/27/21 06:22	1
NMeFOSE	<1.2		3.5	1.2	ng/L		08/26/21 11:50	08/27/21 06:22	1
NEtFOSE	<0.73		1.7	0.73	ng/L		08/26/21 11:50	08/27/21 06:22	1
4:2 FTS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 06:22	1
6:2 FTS	**20**		4.3	2.2	ng/L		08/26/21 11:50	08/27/21 06:22	1
8:2 FTS	<0.40		1.7	0.40	ng/L		08/26/21 11:50	08/27/21 06:22	1
10:2 FTS	<0.58		1.7	0.58	ng/L		08/26/21 11:50	08/27/21 06:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		08/26/21 11:50	08/27/21 06:22	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		08/26/21 11:50	08/27/21 06:22	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 06:22	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		08/26/21 11:50	08/27/21 06:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:22*	*1*
13C5 PFPeA	*70*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:22*	*1*
13C2 PFHxA	*70*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:22*	*1*
13C4 PFHpA	*74*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:22*	*1*
13C4 PFOA	*76*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:22*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 22

Date Collected: 08/25/21 10:15
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	70		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 PFDA	78		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 PFUnA	86		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 PFDoA	78		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 PFTeDA	90		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 PFHxDA	79		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C3 PFBS	73		25 - 150	08/26/21 11:50	08/27/21 06:22	1
18O2 PFHxS	83		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C4 PFOS	78		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C8 FOSA	73		10 - 150	08/26/21 11:50	08/27/21 06:22	1
d3-NMeFOSAA	77		25 - 150	08/26/21 11:50	08/27/21 06:22	1
d5-NEtFOSAA	94		25 - 150	08/26/21 11:50	08/27/21 06:22	1
d-N-MeFOSA-M	62		10 - 150	08/26/21 11:50	08/27/21 06:22	1
d-N-EtFOSA-M	51		10 - 150	08/26/21 11:50	08/27/21 06:22	1
d7-N-MeFOSE-M	63		10 - 150	08/26/21 11:50	08/27/21 06:22	1
d9-N-EtFOSE-M	61		10 - 150	08/26/21 11:50	08/27/21 06:22	1
M2-4:2 FTS	86		25 - 150	08/26/21 11:50	08/27/21 06:22	1
M2-6:2 FTS	87		25 - 150	08/26/21 11:50	08/27/21 06:22	1
M2-8:2 FTS	75		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C3 HFPO-DA	64		25 - 150	08/26/21 11:50	08/27/21 06:22	1
13C2 10:2 FTS	96		25 - 150	08/26/21 11:50	08/27/21 06:22	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 16
Date Collected: 08/25/21 10:22
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.1**		4.4	2.1	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoropentanoic acid (PFPeA)	**1.9**		1.8	0.43	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorohexanoic acid (PFHxA)	**2.2**		1.8	0.51	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoroheptanoic acid (PFHpA)	**0.89**	**J**	1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorooctanoic acid (PFOA)	**7.0**		1.8	0.75	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.8	0.78	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorobutanesulfonic acid (PFBS)	**4.2**		1.8	0.18	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoropentanesulfonic acid (PFPeS)	**7.4**		1.8	0.26	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorohexanesulfonic acid (PFHxS)	**70**		1.8	0.50	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	**1.2**	**J**	1.8	0.17	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorooctanesulfonic acid (PFOS)	**34**		1.8	0.48	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		08/26/21 11:50	08/27/21 06:31	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		08/26/21 11:50	08/27/21 06:31	1
NEtFOSA	<0.77		1.8	0.77	ng/L		08/26/21 11:50	08/27/21 06:31	1
NMeFOSA	<0.38		1.8	0.38	ng/L		08/26/21 11:50	08/27/21 06:31	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		08/26/21 11:50	08/27/21 06:31	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		08/26/21 11:50	08/27/21 06:31	1
NMeFOSE	<1.2		3.5	1.2	ng/L		08/26/21 11:50	08/27/21 06:31	1
NEtFOSE	<0.75		1.8	0.75	ng/L		08/26/21 11:50	08/27/21 06:31	1
4:2 FTS	<0.21		1.8	0.21	ng/L		08/26/21 11:50	08/27/21 06:31	1
6:2 FTS	<2.2		4.4	2.2	ng/L		08/26/21 11:50	08/27/21 06:31	1
8:2 FTS	<0.41		1.8	0.41	ng/L		08/26/21 11:50	08/27/21 06:31	1
10:2 FTS	<0.59		1.8	0.59	ng/L		08/26/21 11:50	08/27/21 06:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		08/26/21 11:50	08/27/21 06:31	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		08/26/21 11:50	08/27/21 06:31	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		08/26/21 11:50	08/27/21 06:31	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		08/26/21 11:50	08/27/21 06:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*60*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:31*	*1*
13C5 PFPeA	*60*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:31*	*1*
13C2 PFHxA	*56*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:31*	*1*
13C4 PFHpA	*69*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:31*	*1*
13C4 PFOA	*64*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:31*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 16
Date Collected: 08/25/21 10:22
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	62		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 PFDA	65		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 PFUnA	65		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 PFDoA	74		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 PFTeDA	77		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 PFHxDA	73		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C3 PFBS	62		25 - 150	08/26/21 11:50	08/27/21 06:31	1
18O2 PFHxS	74		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C4 PFOS	63		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C8 FOSA	66		10 - 150	08/26/21 11:50	08/27/21 06:31	1
d3-NMeFOSAA	76		25 - 150	08/26/21 11:50	08/27/21 06:31	1
d5-NEtFOSAA	81		25 - 150	08/26/21 11:50	08/27/21 06:31	1
d-N-MeFOSA-M	47		10 - 150	08/26/21 11:50	08/27/21 06:31	1
d-N-EtFOSA-M	45		10 - 150	08/26/21 11:50	08/27/21 06:31	1
d7-N-MeFOSE-M	54		10 - 150	08/26/21 11:50	08/27/21 06:31	1
d9-N-EtFOSE-M	56		10 - 150	08/26/21 11:50	08/27/21 06:31	1
M2-4:2 FTS	79		25 - 150	08/26/21 11:50	08/27/21 06:31	1
M2-6:2 FTS	65		25 - 150	08/26/21 11:50	08/27/21 06:31	1
M2-8:2 FTS	64		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C3 HFPO-DA	53		25 - 150	08/26/21 11:50	08/27/21 06:31	1
13C2 10:2 FTS	80		25 - 150	08/26/21 11:50	08/27/21 06:31	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 14
Date Collected: 08/25/21 10:27
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.8	0.45	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorooctanoic acid (PFOA)	<0.78		1.8	0.78	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorobutanesulfonic acid (PFBS)	**1.3**	**J**	1.8	0.18	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoropentanesulfonic acid (PFPeS)	**0.96**	**J**	1.8	0.27	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorohexanesulfonic acid (PFHxS)	**8.2**		1.8	0.52	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorooctanesulfonic acid (PFOS)	**2.6**		1.8	0.49	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		08/26/21 11:50	08/27/21 06:40	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		08/26/21 11:50	08/27/21 06:40	1
NEtFOSA	<0.80		1.8	0.80	ng/L		08/26/21 11:50	08/27/21 06:40	1
NMeFOSA	<0.39		1.8	0.39	ng/L		08/26/21 11:50	08/27/21 06:40	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		08/26/21 11:50	08/27/21 06:40	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		08/26/21 11:50	08/27/21 06:40	1
NMeFOSE	<1.3		3.7	1.3	ng/L		08/26/21 11:50	08/27/21 06:40	1
NEtFOSE	<0.78		1.8	0.78	ng/L		08/26/21 11:50	08/27/21 06:40	1
4:2 FTS	<0.22		1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:40	1
6:2 FTS	<2.3		4.6	2.3	ng/L		08/26/21 11:50	08/27/21 06:40	1
8:2 FTS	<0.42		1.8	0.42	ng/L		08/26/21 11:50	08/27/21 06:40	1
10:2 FTS	<0.61		1.8	0.61	ng/L		08/26/21 11:50	08/27/21 06:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		08/26/21 11:50	08/27/21 06:40	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		08/26/21 11:50	08/27/21 06:40	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:40	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*57*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:40*	*1*
13C5 PFPeA	*71*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:40*	*1*
13C2 PFHxA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:40*	*1*
13C4 PFHpA	*79*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:40*	*1*
13C4 PFOA	*78*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:40*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 14
Date Collected: 08/25/21 10:27
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	73		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 PFDA	82		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 PFUnA	77		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 PFDoA	76		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 PFTeDA	86		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 PFHxDA	90		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C3 PFBS	69		25 - 150	08/26/21 11:50	08/27/21 06:40	1
18O2 PFHxS	78		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C4 PFOS	73		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C8 FOSA	72		10 - 150	08/26/21 11:50	08/27/21 06:40	1
d3-NMeFOSAA	75		25 - 150	08/26/21 11:50	08/27/21 06:40	1
d5-NEtFOSAA	94		25 - 150	08/26/21 11:50	08/27/21 06:40	1
d-N-MeFOSA-M	61		10 - 150	08/26/21 11:50	08/27/21 06:40	1
d-N-EtFOSA-M	48		10 - 150	08/26/21 11:50	08/27/21 06:40	1
d7-N-MeFOSE-M	59		10 - 150	08/26/21 11:50	08/27/21 06:40	1
d9-N-EtFOSE-M	58		10 - 150	08/26/21 11:50	08/27/21 06:40	1
M2-4:2 FTS	114		25 - 150	08/26/21 11:50	08/27/21 06:40	1
M2-6:2 FTS	83		25 - 150	08/26/21 11:50	08/27/21 06:40	1
M2-8:2 FTS	92		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C3 HFPO-DA	60		25 - 150	08/26/21 11:50	08/27/21 06:40	1
13C2 10:2 FTS	91		25 - 150	08/26/21 11:50	08/27/21 06:40	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 9
Date Collected: 08/25/21 10:32
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-6
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.3**	**J**	4.3	2.1	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoroheptanoic acid (PFHpA)	**0.32**	**J**	1.7	0.21	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorooctanoic acid (PFOA)	**1.0**	**J**	1.7	0.73	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorohexanesulfonic acid (PFHxS)	**0.95**	**J**	1.7	0.49	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorooctanesulfonic acid (PFOS)	**0.83**	**J**	1.7	0.46	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		08/26/21 11:50	08/27/21 06:49	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		08/26/21 11:50	08/27/21 06:49	1
NEtFOSA	<0.75		1.7	0.75	ng/L		08/26/21 11:50	08/27/21 06:49	1
NMeFOSA	<0.37		1.7	0.37	ng/L		08/26/21 11:50	08/27/21 06:49	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		08/26/21 11:50	08/27/21 06:49	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		08/26/21 11:50	08/27/21 06:49	1
NMeFOSE	<1.2		3.4	1.2	ng/L		08/26/21 11:50	08/27/21 06:49	1
NEtFOSE	<0.73		1.7	0.73	ng/L		08/26/21 11:50	08/27/21 06:49	1
4:2 FTS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 06:49	1
6:2 FTS	<2.1		4.3	2.1	ng/L		08/26/21 11:50	08/27/21 06:49	1
8:2 FTS	<0.40		1.7	0.40	ng/L		08/26/21 11:50	08/27/21 06:49	1
10:2 FTS	<0.58		1.7	0.58	ng/L		08/26/21 11:50	08/27/21 06:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		08/26/21 11:50	08/27/21 06:49	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		08/26/21 11:50	08/27/21 06:49	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 06:49	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		08/26/21 11:50	08/27/21 06:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*48*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*
13C5 PFPeA	*58*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*
13C2 PFHxA	*52*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*
13C4 PFHpA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*
13C4 PFOA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*
13C5 PFNA	*59*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:49*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 9
Date Collected: 08/25/21 10:32
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-6
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	69		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C2 PFUnA	69		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C2 PFDoA	67		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C2 PFTeDA	75		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C2 PFHxDA	72		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C3 PFBS	58		25 - 150	08/26/21 11:50	08/27/21 06:49	1
18O2 PFHxS	70		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C4 PFOS	64		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C8 FOSA	59		10 - 150	08/26/21 11:50	08/27/21 06:49	1
d3-NMeFOSAA	71		25 - 150	08/26/21 11:50	08/27/21 06:49	1
d5-NEtFOSAA	81		25 - 150	08/26/21 11:50	08/27/21 06:49	1
d-N-MeFOSA-M	50		10 - 150	08/26/21 11:50	08/27/21 06:49	1
d-N-EtFOSA-M	43		10 - 150	08/26/21 11:50	08/27/21 06:49	1
d7-N-MeFOSE-M	52		10 - 150	08/26/21 11:50	08/27/21 06:49	1
d9-N-EtFOSE-M	51		10 - 150	08/26/21 11:50	08/27/21 06:49	1
M2-4:2 FTS	128		25 - 150	08/26/21 11:50	08/27/21 06:49	1
M2-6:2 FTS	89		25 - 150	08/26/21 11:50	08/27/21 06:49	1
M2-8:2 FTS	72		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C3 HFPO-DA	51		25 - 150	08/26/21 11:50	08/27/21 06:49	1
13C2 10:2 FTS	78		25 - 150	08/26/21 11:50	08/27/21 06:49	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 24
Date Collected: 08/25/21 10:36
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-7
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.2**		4.5	2.1	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoropentanoic acid (PFPeA)	**2.0**		1.8	0.44	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorohexanoic acid (PFHxA)	**3.6**		1.8	0.52	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoroheptanoic acid (PFHpA)	**0.73**	**J**	1.8	0.22	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorooctanoic acid (PFOA)	**2.8**		1.8	0.76	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.8	0.18	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoropentanesulfonic acid (PFPeS)	**2.7**		1.8	0.27	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorohexanesulfonic acid (PFHxS)	**14**		1.8	0.51	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.23**	**J C**	1.8	0.17	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorooctanesulfonic acid (PFOS)	**3.8**		1.8	0.48	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		08/26/21 11:50	08/27/21 06:58	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		08/26/21 11:50	08/27/21 06:58	1
NEtFOSA	<0.78		1.8	0.78	ng/L		08/26/21 11:50	08/27/21 06:58	1
NMeFOSA	<0.38		1.8	0.38	ng/L		08/26/21 11:50	08/27/21 06:58	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		08/26/21 11:50	08/27/21 06:58	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		08/26/21 11:50	08/27/21 06:58	1
NMeFOSE	<1.3		3.6	1.3	ng/L		08/26/21 11:50	08/27/21 06:58	1
NEtFOSE	<0.76		1.8	0.76	ng/L		08/26/21 11:50	08/27/21 06:58	1
4:2 FTS	<0.21		1.8	0.21	ng/L		08/26/21 11:50	08/27/21 06:58	1
6:2 FTS	<2.2		4.5	2.2	ng/L		08/26/21 11:50	08/27/21 06:58	1
8:2 FTS	<0.41		1.8	0.41	ng/L		08/26/21 11:50	08/27/21 06:58	1
10:2 FTS	<0.60		1.8	0.60	ng/L		08/26/21 11:50	08/27/21 06:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		08/26/21 11:50	08/27/21 06:58	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		08/26/21 11:50	08/27/21 06:58	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		08/26/21 11:50	08/27/21 06:58	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		08/26/21 11:50	08/27/21 06:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*74*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:58*	*1*
13C5 PFPeA	*78*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:58*	*1*
13C2 PFHxA	*69*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:58*	*1*
13C4 PFHpA	*95*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:58*	*1*
13C4 PFOA	*88*		*25 - 150*	*08/26/21 11:50*	*08/27/21 06:58*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 24
Date Collected: 08/25/21 10:36
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-7
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	84		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 PFDA	81		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 PFUnA	88		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 PFDoA	103		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 PFTeDA	102		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 PFHxDA	90		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C3 PFBS	78		25 - 150	08/26/21 11:50	08/27/21 06:58	1
18O2 PFHxS	90		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C4 PFOS	79		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C8 FOSA	81		10 - 150	08/26/21 11:50	08/27/21 06:58	1
d3-NMeFOSAA	91		25 - 150	08/26/21 11:50	08/27/21 06:58	1
d5-NEtFOSAA	100		25 - 150	08/26/21 11:50	08/27/21 06:58	1
d-N-MeFOSA-M	63		10 - 150	08/26/21 11:50	08/27/21 06:58	1
d-N-EtFOSA-M	55		10 - 150	08/26/21 11:50	08/27/21 06:58	1
d7-N-MeFOSE-M	72		10 - 150	08/26/21 11:50	08/27/21 06:58	1
d9-N-EtFOSE-M	84		10 - 150	08/26/21 11:50	08/27/21 06:58	1
M2-4:2 FTS	97		25 - 150	08/26/21 11:50	08/27/21 06:58	1
M2-6:2 FTS	83		25 - 150	08/26/21 11:50	08/27/21 06:58	1
M2-8:2 FTS	83		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C3 HFPO-DA	73		25 - 150	08/26/21 11:50	08/27/21 06:58	1
13C2 10:2 FTS	97		25 - 150	08/26/21 11:50	08/27/21 06:58	1

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 17
Date Collected: 08/25/21 10:42
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-8
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.2**		4.3	2.1	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoropentanoic acid (PFPeA)	**1.3**	**J**	1.7	0.42	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorohexanoic acid (PFHxA)	**3.7**		1.7	0.50	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoroheptanoic acid (PFHpA)	**0.87**	**J**	1.7	0.21	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorooctanoic acid (PFOA)	**4.9**		1.7	0.73	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorobutanesulfonic acid (PFBS)	**4.4**		1.7	0.17	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoropentanesulfonic acid (PFPeS)	**5.4**		1.7	0.26	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorohexanesulfonic acid (PFHxS)	**42**		1.7	0.49	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.82**	**J**	1.7	0.16	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorooctanesulfonic acid (PFOS)	**21**		1.7	0.46	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		08/26/21 11:50	08/27/21 07:26	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		08/26/21 11:50	08/27/21 07:26	1
NEtFOSA	<0.74		1.7	0.74	ng/L		08/26/21 11:50	08/27/21 07:26	1
NMeFOSA	<0.37		1.7	0.37	ng/L		08/26/21 11:50	08/27/21 07:26	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		08/26/21 11:50	08/27/21 07:26	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		08/26/21 11:50	08/27/21 07:26	1
NMeFOSE	<1.2		3.4	1.2	ng/L		08/26/21 11:50	08/27/21 07:26	1
NEtFOSE	<0.73		1.7	0.73	ng/L		08/26/21 11:50	08/27/21 07:26	1
4:2 FTS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 07:26	1
6:2 FTS	<2.1		4.3	2.1	ng/L		08/26/21 11:50	08/27/21 07:26	1
8:2 FTS	<0.39		1.7	0.39	ng/L		08/26/21 11:50	08/27/21 07:26	1
10:2 FTS	<0.57		1.7	0.57	ng/L		08/26/21 11:50	08/27/21 07:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		08/26/21 11:50	08/27/21 07:26	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		08/26/21 11:50	08/27/21 07:26	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		08/26/21 11:50	08/27/21 07:26	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		08/26/21 11:50	08/27/21 07:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64*		*25 - 150*	*08/26/21 11:50*	*08/27/21 07:26*	*1*
13C5 PFPeA	*64*		*25 - 150*	*08/26/21 11:50*	*08/27/21 07:26*	*1*
13C2 PFHxA	*58*		*25 - 150*	*08/26/21 11:50*	*08/27/21 07:26*	*1*
13C4 PFHpA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 07:26*	*1*
13C4 PFOA	*74*		*25 - 150*	*08/26/21 11:50*	*08/27/21 07:26*	*1*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 17
Date Collected: 08/25/21 10:42
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-8
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	64		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 PFDA	66		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 PFUnA	74		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 PFDoA	80		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 PFTeDA	79		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 PFHxDA	83		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C3 PFBS	68		25 - 150	08/26/21 11:50	08/27/21 07:26	1
18O2 PFHxS	74		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C4 PFOS	71		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C8 FOSA	65		10 - 150	08/26/21 11:50	08/27/21 07:26	1
d3-NMeFOSAA	73		25 - 150	08/26/21 11:50	08/27/21 07:26	1
d5-NEtFOSAA	95		25 - 150	08/26/21 11:50	08/27/21 07:26	1
d-N-MeFOSA-M	52		10 - 150	08/26/21 11:50	08/27/21 07:26	1
d-N-EtFOSA-M	43		10 - 150	08/26/21 11:50	08/27/21 07:26	1
d7-N-MeFOSE-M	59		10 - 150	08/26/21 11:50	08/27/21 07:26	1
d9-N-EtFOSE-M	61		10 - 150	08/26/21 11:50	08/27/21 07:26	1
M2-4:2 FTS	72		25 - 150	08/26/21 11:50	08/27/21 07:26	1
M2-6:2 FTS	74		25 - 150	08/26/21 11:50	08/27/21 07:26	1
M2-8:2 FTS	69		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C3 HFPO-DA	55		25 - 150	08/26/21 11:50	08/27/21 07:26	1
13C2 10:2 FTS	89		25 - 150	08/26/21 11:50	08/27/21 07:26	1

Isotope Dilution Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-78015-1	Entry Point Line 1	57	65	66	73	78	71	73	75
320-78015-2	Entry Point FB	60	65	63	68	66	60	72	63
320-78015-3	Well 22	64	70	70	74	76	70	78	86
320-78015-4	Well 16	60	60	56	69	64	62	65	65
320-78015-5	Well 14	57	71	66	79	78	73	82	77
320-78015-6	Well 9	48	58	52	66	66	59	69	69
320-78015-7	Well 24	74	78	69	95	88	84	81	88
320-78015-8	Well 17	64	64	58	66	74	64	66	74
LCS 320-520019/2-A	Lab Control Sample	67	68	65	81	75	69	71	80
LCSD 320-520019/3-A	Lab Control Sample Dup	68	66	64	78	73	72	79	73
MB 320-520019/1-A	Method Blank	59	58	59	66	65	59	66	59

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOSA (25-150)
320-78015-1	Entry Point Line 1	75	74	76	68	84	72	72	74
320-78015-2	Entry Point FB	59	65	68	65	70	69	63	65
320-78015-3	Well 22	78	90	79	73	83	78	73	77
320-78015-4	Well 16	74	77	73	62	74	63	66	76
320-78015-5	Well 14	76	86	90	69	78	73	72	75
320-78015-6	Well 9	67	75	72	58	70	64	59	71
320-78015-7	Well 24	103	102	90	78	90	79	81	91
320-78015-8	Well 17	80	79	83	68	74	71	65	73
LCS 320-520019/2-A	Lab Control Sample	78	88	77	69	80	70	70	78
LCSD 320-520019/3-A	Lab Control Sample Dup	76	77	69	71	83	69	72	81
MB 320-520019/1-A	Method Blank	68	68	70	56	71	56	58	68

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOSA (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-78015-1	Entry Point Line 1	91	57	49	56	62	123	106	76
320-78015-2	Entry Point FB	72	53	45	56	54	66	68	57
320-78015-3	Well 22	94	62	51	63	61	86	87	75
320-78015-4	Well 16	81	47	45	54	56	79	65	64
320-78015-5	Well 14	94	61	48	59	58	114	83	92
320-78015-6	Well 9	81	50	43	52	51	128	89	72
320-78015-7	Well 24	100	63	55	72	84	97	83	83
320-78015-8	Well 17	95	52	43	59	61	72	74	69
LCS 320-520019/2-A	Lab Control Sample	88	61	55	75	72	65	72	77
LCSD 320-520019/3-A	Lab Control Sample Dup	89	61	55	65	64	61	76	76
MB 320-520019/1-A	Method Blank	84	46	44	53	55	51	60	62

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-78015-1	Entry Point Line 1	60	89
320-78015-2	Entry Point FB	56	70
320-78015-3	Well 22	64	96
320-78015-4	Well 16	53	80
320-78015-5	Well 14	60	91
320-78015-6	Well 9	51	78
320-78015-7	Well 24	73	97

Isotope Dilution Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)								
320-78015-8	Well 17	55	89								
LCS 320-520019/2-A	Lab Control Sample	68	82								
LCSD 320-520019/3-A	Lab Control Sample Dup	61	84								
MB 320-520019/1-A	Method Blank	54	76								

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-520019/1-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520019

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		08/26/21 11:50	08/27/21 05:36	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		08/26/21 11:50	08/27/21 05:36	1
NEtFOSA	<0.87		2.0	0.87	ng/L		08/26/21 11:50	08/27/21 05:36	1
NMeFOSA	<0.43		2.0	0.43	ng/L		08/26/21 11:50	08/27/21 05:36	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		08/26/21 11:50	08/27/21 05:36	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		08/26/21 11:50	08/27/21 05:36	1
NMeFOSE	<1.4		4.0	1.4	ng/L		08/26/21 11:50	08/27/21 05:36	1
NEtFOSE	<0.85		2.0	0.85	ng/L		08/26/21 11:50	08/27/21 05:36	1
4:2 FTS	<0.24		2.0	0.24	ng/L		08/26/21 11:50	08/27/21 05:36	1
6:2 FTS	<2.5		5.0	2.5	ng/L		08/26/21 11:50	08/27/21 05:36	1
8:2 FTS	<0.46		2.0	0.46	ng/L		08/26/21 11:50	08/27/21 05:36	1
10:2 FTS	<0.67		2.0	0.67	ng/L		08/26/21 11:50	08/27/21 05:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		08/26/21 11:50	08/27/21 05:36	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		08/26/21 11:50	08/27/21 05:36	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		08/26/21 11:50	08/27/21 05:36	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		08/26/21 11:50	08/27/21 05:36	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*59*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*
13C5 PFPeA	*58*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*
13C2 PFHxA	*59*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*
13C4 PFHpA	*66*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*
13C4 PFOA	*65*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*
13C5 PFNA	*59*		*25 - 150*	*08/26/21 11:50*	*08/27/21 05:36*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-520019/1-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520019

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	66		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C2 PFUnA	59		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C2 PFDoA	68		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C2 PFTeDA	68		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C2 PFHxDA	70		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C3 PFBS	56		25 - 150	08/26/21 11:50	08/27/21 05:36	1
18O2 PFHxS	71		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C4 PFOS	56		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C8 FOSA	58		10 - 150	08/26/21 11:50	08/27/21 05:36	1
d3-NMeFOSAA	68		25 - 150	08/26/21 11:50	08/27/21 05:36	1
d5-NEtFOSAA	84		25 - 150	08/26/21 11:50	08/27/21 05:36	1
d-N-MeFOSA-M	46		10 - 150	08/26/21 11:50	08/27/21 05:36	1
d-N-EtFOSA-M	44		10 - 150	08/26/21 11:50	08/27/21 05:36	1
d7-N-MeFOSE-M	53		10 - 150	08/26/21 11:50	08/27/21 05:36	1
d9-N-EtFOSE-M	55		10 - 150	08/26/21 11:50	08/27/21 05:36	1
M2-4:2 FTS	51		25 - 150	08/26/21 11:50	08/27/21 05:36	1
M2-6:2 FTS	60		25 - 150	08/26/21 11:50	08/27/21 05:36	1
M2-8:2 FTS	62		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C3 HFPO-DA	54		25 - 150	08/26/21 11:50	08/27/21 05:36	1
13C2 10:2 FTS	76		25 - 150	08/26/21 11:50	08/27/21 05:36	1

Lab Sample ID: LCS 320-520019/2-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	48.2		ng/L		120	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	46.2		ng/L		115	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	43.0		ng/L		108	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	46.3		ng/L		116	60 - 135
Perfluorononanoic acid (PFNA)	40.0	48.9		ng/L		122	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	46.1		ng/L		115	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.1		ng/L		95	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.4		ng/L		108	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	43.9		ng/L		110	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	38.9		ng/L		97	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	41.0		ng/L		102	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	41.1		ng/L		103	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3		ng/L		97	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	43.1		ng/L		115	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.2		ng/L		102	60 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-520019/2-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	45.6		ng/L		120	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	41.2		ng/L		111	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	39.8		ng/L		104	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	44.4		ng/L		115	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	46.9		ng/L		121	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.8		ng/L		110	60 - 135
NEtFOSA	40.0	46.3		ng/L		116	60 - 135
NMeFOSA	40.0	43.6		ng/L		109	60 - 135
NMeFOSAA	40.0	42.9		ng/L		107	60 - 135
NEtFOSAA	40.0	41.1		ng/L		103	60 - 135
NMeFOSE	40.0	42.8		ng/L		107	60 - 135
NEtFOSE	40.0	44.4		ng/L		111	60 - 135
4:2 FTS	37.4	41.0		ng/L		110	60 - 135
6:2 FTS	37.9	39.2		ng/L		103	60 - 135
8:2 FTS	38.3	38.5		ng/L		100	60 - 135
10:2 FTS	38.6	42.6		ng/L		110	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	48.8		ng/L		129	60 - 135
HFPO-DA (GenX)	40.0	42.5		ng/L		106	60 - 135
9Cl-PF3ONS	37.3	41.1		ng/L		110	60 - 135
11Cl-PF3OUdS	37.7	43.1		ng/L		114	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*67*		*25 - 150*
13C5 PFPeA	*68*		*25 - 150*
13C2 PFHxA	*65*		*25 - 150*
13C4 PFHpA	*81*		*25 - 150*
13C4 PFOA	*75*		*25 - 150*
13C5 PFNA	*69*		*25 - 150*
13C2 PFDA	*71*		*25 - 150*
13C2 PFUnA	*80*		*25 - 150*
13C2 PFDoA	*78*		*25 - 150*
13C2 PFTeDA	*88*		*25 - 150*
13C2 PFHxDA	*77*		*25 - 150*
13C3 PFBS	*69*		*25 - 150*
18O2 PFHxS	*80*		*25 - 150*
13C4 PFOS	*70*		*25 - 150*
13C8 FOSA	*70*		*10 - 150*
d3-NMeFOSAA	*78*		*25 - 150*
d5-NEtFOSAA	*88*		*25 - 150*
d-N-MeFOSA-M	*61*		*10 - 150*
d-N-EtFOSA-M	*55*		*10 - 150*
d7-N-MeFOSE-M	*75*		*10 - 150*
d9-N-EtFOSE-M	*72*		*10 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-520019/2-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520019

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*65*		*25 - 150*
M2-6:2 FTS	*72*		*25 - 150*
M2-8:2 FTS	*77*		*25 - 150*
13C3 HFPO-DA	*68*		*25 - 150*
13C2 10:2 FTS	*82*		*25 - 150*

Lab Sample ID: LCSD 320-520019/3-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 520019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	43.9		ng/L		110	60 - 135	9	30
Perfluoropentanoic acid (PFPeA)			40.0	45.4		ng/L		114	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)			40.0	46.7		ng/L		117	60 - 135	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	43.6		ng/L		109	60 - 135	1	30
Perfluorooctanoic acid (PFOA)			40.0	43.3		ng/L		108	60 - 135	7	30
Perfluorononanoic acid (PFNA)			40.0	48.3		ng/L		121	60 - 135	1	30
Perfluorodecanoic acid (PFDA)			40.0	41.7		ng/L		104	60 - 135	10	30
Perfluoroundecanoic acid (PFUnA)			40.0	41.4		ng/L		103	60 - 135	8	30
Perfluorododecanoic acid (PFDoA)			40.0	38.5		ng/L		96	60 - 135	12	30
Perfluorotridecanoic acid (PFTrDA)			40.0	39.7		ng/L		99	60 - 135	10	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.9		ng/L		105	60 - 135	7	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	49.5		ng/L		124	60 - 135	19	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	48.2		ng/L		120	60 - 135	16	30
Perfluorobutanesulfonic acid (PFBS)			35.4	32.0		ng/L		90	60 - 135	7	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	36.7		ng/L		98	60 - 135	16	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	38.1		ng/L		105	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	47.2		ng/L		124	60 - 135	3	30
Perfluorooctanesulfonic acid (PFOS)			37.1	39.1		ng/L		105	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)			38.4	44.8		ng/L		117	60 - 135	12	30
Perfluorodecanesulfonic acid (PFDS)			38.6	42.4		ng/L		110	60 - 135	5	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	46.0		ng/L		119	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.4		ng/L		108	60 - 135	1	30
NEtFOSA			40.0	45.8		ng/L		115	60 - 135	1	30
NMeFOSA			40.0	47.2		ng/L		118	60 - 135	8	30
NMeFOSAA			40.0	47.4		ng/L		118	60 - 135	10	30
NEtFOSAA			40.0	44.6		ng/L		112	60 - 135	8	30
NMeFOSE			40.0	45.0		ng/L		113	60 - 135	5	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-520019/3-A
Matrix: Water
Analysis Batch: 520229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 520019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE			40.0	40.9		ng/L		102	60 - 135	8	30
4:2 FTS			37.4	40.4		ng/L		108	60 - 135	2	30
6:2 FTS			37.9	36.4		ng/L		96	60 - 135	7	30
8:2 FTS			38.3	36.5		ng/L		95	60 - 135	5	30
10:2 FTS			38.6	36.5		ng/L		95	60 - 135	16	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	45.2		ng/L		120	60 - 135	8	30
HFPO-DA (GenX)			40.0	43.1		ng/L		108	60 - 135	1	30
9Cl-PF3ONS			37.3	43.2		ng/L		116	60 - 135	5	30
11Cl-PF3OUdS			37.7	43.8		ng/L		116	60 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*68*		*25 - 150*
13C5 PFPeA	*66*		*25 - 150*
13C2 PFHxA	*64*		*25 - 150*
13C4 PFHpA	*78*		*25 - 150*
13C4 PFOA	*73*		*25 - 150*
13C5 PFNA	*72*		*25 - 150*
13C2 PFDA	*79*		*25 - 150*
13C2 PFUnA	*73*		*25 - 150*
13C2 PFDoA	*76*		*25 - 150*
13C2 PFTeDA	*77*		*25 - 150*
13C2 PFHxDA	*69*		*25 - 150*
13C3 PFBS	*71*		*25 - 150*
18O2 PFHxS	*83*		*25 - 150*
13C4 PFOS	*69*		*25 - 150*
13C8 FOSA	*72*		*10 - 150*
d3-NMeFOSAA	*81*		*25 - 150*
d5-NEtFOSAA	*89*		*25 - 150*
d-N-MeFOSA-M	*61*		*10 - 150*
d-N-EtFOSA-M	*55*		*10 - 150*
d7-N-MeFOSE-M	*65*		*10 - 150*
d9-N-EtFOSE-M	*64*		*10 - 150*
M2-4:2 FTS	*61*		*25 - 150*
M2-6:2 FTS	*76*		*25 - 150*
M2-8:2 FTS	*76*		*25 - 150*
13C3 HFPO-DA	*61*		*25 - 150*
13C2 10:2 FTS	*84*		*25 - 150*

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

LCMS

Prep Batch: 520019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78015-1	Entry Point Line 1	Total/NA	Water	3535	
320-78015-2	Entry Point FB	Total/NA	Water	3535	
320-78015-3	Well 22	Total/NA	Water	3535	
320-78015-4	Well 16	Total/NA	Water	3535	
320-78015-5	Well 14	Total/NA	Water	3535	
320-78015-6	Well 9	Total/NA	Water	3535	
320-78015-7	Well 24	Total/NA	Water	3535	
320-78015-8	Well 17	Total/NA	Water	3535	
MB 320-520019/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-520019/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-520019/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 520229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78015-1	Entry Point Line 1	Total/NA	Water	537 (modified)	520019
320-78015-2	Entry Point FB	Total/NA	Water	537 (modified)	520019
320-78015-3	Well 22	Total/NA	Water	537 (modified)	520019
320-78015-4	Well 16	Total/NA	Water	537 (modified)	520019
320-78015-5	Well 14	Total/NA	Water	537 (modified)	520019
320-78015-6	Well 9	Total/NA	Water	537 (modified)	520019
320-78015-7	Well 24	Total/NA	Water	537 (modified)	520019
320-78015-8	Well 17	Total/NA	Water	537 (modified)	520019
MB 320-520019/1-A	Method Blank	Total/NA	Water	537 (modified)	520019
LCS 320-520019/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	520019
LCSD 320-520019/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	520019

Lab Chronicle

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Entry Point Line 1
Lab Sample ID: 320-78015-1
Date Collected: 08/25/21 10:00
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			268.3 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:04	JY1	TAL SAC

Client Sample ID: Entry Point FB
Lab Sample ID: 320-78015-2
Date Collected: 08/25/21 10:02
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.8 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:13	JY1	TAL SAC

Client Sample ID: Well 22
Lab Sample ID: 320-78015-3
Date Collected: 08/25/21 10:15
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.2 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:22	JY1	TAL SAC

Client Sample ID: Well 16
Lab Sample ID: 320-78015-4
Date Collected: 08/25/21 10:22
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.5 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:31	JY1	TAL SAC

Client Sample ID: Well 14
Lab Sample ID: 320-78015-5
Date Collected: 08/25/21 10:27
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272.9 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:40	JY1	TAL SAC

Client Sample ID: Well 9
Lab Sample ID: 320-78015-6
Date Collected: 08/25/21 10:32
Matrix: Water
Date Received: 08/26/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290.9 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:49	JY1	TAL SAC

Lab Chronicle

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Client Sample ID: Well 24

Date Collected: 08/25/21 10:36
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 06:58	JY1	TAL SAC

Client Sample ID: Well 17

Date Collected: 08/25/21 10:42
Date Received: 08/26/21 09:45

Lab Sample ID: 320-78015-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			292.4 mL	10.0 mL	520019	08/26/21 11:50	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			520229	08/27/21 07:26	JY1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-22

Method Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 320-78015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78015-1	Entry Point Line 1	Water	08/25/21 10:00	08/26/21 09:45
320-78015-2	Entry Point FB	Water	08/25/21 10:02	08/26/21 09:45
320-78015-3	Well 22	Water	08/25/21 10:15	08/26/21 09:45
320-78015-4	Well 16	Water	08/25/21 10:22	08/26/21 09:45
320-78015-5	Well 14	Water	08/25/21 10:27	08/26/21 09:45
320-78015-6	Well 9	Water	08/25/21 10:32	08/26/21 09:45
320-78015-7	Well 24	Water	08/25/21 10:36	08/26/21 09:45
320-78015-8	Well 17	Water	08/25/21 10:42	08/26/21 09:45

Chain of Custody Record

548005

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Sandie Frederick	Site Contact:	Date: 8/25/21	COC No:
Company Name: City of Eau Claire	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 1000 Forest St	Analysis Turnaround Time			Sampler:
City/State/Zip: Eau Claire / WI / 54703	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 715-839-6121	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PFAS-Ext (36)	Sample Specific Notes:
Entry Point Line 1	8/25/21	1000	G	DW	2			X	
Entry Point FB	8/25/21	1002	G	DW	2			X	
Well 22	8/25/21	1015	G	DW	2			X	
Well 16	8/25/21	1022	G	DW	2			X	
Well 14	8/25/21	1027	G	DW	2			X	
Well 9	8/25/21	1032	G	DW	2			X	
Well 24	8/25/21	1036	G	DW	2			X	
Well 17	8/25/21	1042	G	DW	2			X	

320-78015 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 1600717 | Cooler Temp. (°C): Obs'd: 1.5 Corr'd: 1.5 | Therm ID No.: L-04

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	City of EC	8/25/21 1200	[signature]	EHASAC	8-25-21 / 09:45
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

ID: Entry point - Line 1 SO 8126/4

8/27/2021

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-78015-1

Login Number: 78015
List Number: 1
Creator: Fredrick, Sandie

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1600717
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	