

ANALYTICAL REPORT

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

Laboratory Job ID: 320-82354-2
Client Project/Site: PFAS Testing

For:

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

Attn: Ty Fadness



Authorized for release by:
12/3/2021 3:36:28 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

Job ID: 320-82354-2

Qualifiers

LCMS

Qualifier	Qualifier Description
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.
α	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: 320-82354-2

Job ID: 320-82354-2

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-82354-2

Comments

No additional comments.

Receipt

The samples were received on 12/2/2021 11:35 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 1.5° C.

LCMS

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

Organic Prep

Method 3535: The following samples were light yellow prior to extraction: Well 6 (320-82354-4), Chip Riv Downstream (320-82354-6) and Chip Riv Upstream (320-82354-7). 3535_PFC Aqueous preparation batch 320-547600

Method 3535: The following samples were preserved with trizma: Well 14 (320-82354-3), Well 6 (320-82354-4), WW Outfall (320-82354-5), Chip Riv Downstream (320-82354-6) and Chip Riv Upstream (320-82354-7). Thus, the MB, LCS and LCSD also contain trizma. 3535_PFC Aqueous preparation batch 320-547600

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-547600. 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: 320-82354-2

Client Sample ID: Well 14

Lab Sample ID: 320-82354-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.7	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.73	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.90	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.61	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.86	J	1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 6

Lab Sample ID: 320-82354-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.2	J	4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.85	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.89	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.48	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.7		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.17	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.6		1.7	0.46	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WW Outfall

Lab Sample ID: 320-82354-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.0		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	11		1.7	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	10		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.3		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.7		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	50		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.3	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	18		1.7	0.47	ng/L	1		537 (modified)	Total/NA
6:2 FTS	6.2		4.3	2.2	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Chip Riv Downstream

Lab Sample ID: 320-82354-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8	J	4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.57	J	1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.58	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.0	J	1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.33	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.93	J	1.7	0.45	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

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

Job ID: 320-82354-2

Client Sample ID: Chip Riv Upstream

Lab Sample ID: 320-82354-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.68	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.78	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.0	J	1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.45	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.59	J	1.8	0.48	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Well 14

Lab Sample ID: 320-82354-3

Date Collected: 12/01/21 10:54

Matrix: Water

Date Received: 12/02/21 11:35

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.7	J	4.7	2.3	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoropentanoic acid (PFPeA)	0.73	J	1.9	0.46	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorohexanoic acid (PFHxA)	0.90	J	1.9	0.55	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoroheptanoic acid (PFHpA)	0.61	J	1.9	0.24	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorooctanoic acid (PFOA)	0.86	J	1.9	0.80	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.9	0.19	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.9	0.28	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.54	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9	0.51	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		12/02/21 12:46	12/02/21 21:18	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		12/02/21 12:46	12/02/21 21:18	1
NEtFOSA	<0.82		1.9	0.82	ng/L		12/02/21 12:46	12/02/21 21:18	1
NMeFOSA	<0.40		1.9	0.40	ng/L		12/02/21 12:46	12/02/21 21:18	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		12/02/21 12:46	12/02/21 21:18	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		12/02/21 12:46	12/02/21 21:18	1
NMeFOSE	<1.3		3.8	1.3	ng/L		12/02/21 12:46	12/02/21 21:18	1
NEtFOSE	<0.80		1.9	0.80	ng/L		12/02/21 12:46	12/02/21 21:18	1
4:2 FTS	<0.23		1.9	0.23	ng/L		12/02/21 12:46	12/02/21 21:18	1
6:2 FTS	<2.4		4.7	2.4	ng/L		12/02/21 12:46	12/02/21 21:18	1
8:2 FTS	<0.43		1.9	0.43	ng/L		12/02/21 12:46	12/02/21 21:18	1
10:2 FTS	<0.63		1.9	0.63	ng/L		12/02/21 12:46	12/02/21 21:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		12/02/21 12:46	12/02/21 21:18	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		12/02/21 12:46	12/02/21 21:18	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		12/02/21 12:46	12/02/21 21:18	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		12/02/21 12:46	12/02/21 21:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	64		25 - 150				12/02/21 12:46	12/02/21 21:18	1
13C5 PFPeA	74		25 - 150				12/02/21 12:46	12/02/21 21:18	1
13C2 PFHxA	78		25 - 150				12/02/21 12:46	12/02/21 21:18	1
13C4 PFHpA	78		25 - 150				12/02/21 12:46	12/02/21 21:18	1
13C4 PFOA	81		25 - 150				12/02/21 12:46	12/02/21 21:18	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Well 14

Lab Sample ID: 320-82354-3

Date Collected: 12/01/21 10:54

Matrix: Water

Date Received: 12/02/21 11:35

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	81		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 PFDA	80		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 PFUnA	82		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 PFDoA	79		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 PFTeDA	88		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 PFHxDA	89		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C3 PFBS	91		25 - 150	12/02/21 12:46	12/02/21 21:18	1
18O2 PFHxS	73		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C4 PFOS	88		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C8 FOSA	72		10 - 150	12/02/21 12:46	12/02/21 21:18	1
d3-NMeFOSAA	76		25 - 150	12/02/21 12:46	12/02/21 21:18	1
d5-NEtFOSAA	79		25 - 150	12/02/21 12:46	12/02/21 21:18	1
d-N-MeFOSA-M	68		10 - 150	12/02/21 12:46	12/02/21 21:18	1
d-N-EtFOSA-M	69		10 - 150	12/02/21 12:46	12/02/21 21:18	1
d7-N-MeFOSE-M	69		10 - 150	12/02/21 12:46	12/02/21 21:18	1
d9-N-EtFOSE-M	69		10 - 150	12/02/21 12:46	12/02/21 21:18	1
M2-4:2 FTS	35		25 - 150	12/02/21 12:46	12/02/21 21:18	1
M2-6:2 FTS	71		25 - 150	12/02/21 12:46	12/02/21 21:18	1
M2-8:2 FTS	77		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C3 HFPO-DA	82		25 - 150	12/02/21 12:46	12/02/21 21:18	1
13C2 10:2 FTS	85		25 - 150	12/02/21 12:46	12/02/21 21:18	1

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Well 6
Date Collected: 12/01/21 11:01
Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.2	J	4.2	2.0	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoropentanoic acid (PFPeA)	0.85	J	1.7	0.42	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorohexanoic acid (PFHxA)	0.89	J	1.7	0.49	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoroheptanoic acid (PFHpA)	0.48	J	1.7	0.21	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorooctanoic acid (PFOA)	1.1	J	1.7	0.72	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.7	0.17	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoropentanesulfonic acid (PFPeS)	1.7		1.7	0.25	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorohexanesulfonic acid (PFHxS)	12		1.7	0.48	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.17	J	1.7	0.16	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorooctanesulfonic acid (PFOS)	3.6		1.7	0.46	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		12/02/21 12:46	12/02/21 21:28	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		12/02/21 12:46	12/02/21 21:28	1
NEtFOSA	<0.74		1.7	0.74	ng/L		12/02/21 12:46	12/02/21 21:28	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/02/21 12:46	12/02/21 21:28	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		12/02/21 12:46	12/02/21 21:28	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		12/02/21 12:46	12/02/21 21:28	1
NMeFOSE	<1.2		3.4	1.2	ng/L		12/02/21 12:46	12/02/21 21:28	1
NEtFOSE	<0.72		1.7	0.72	ng/L		12/02/21 12:46	12/02/21 21:28	1
4:2 FTS	<0.20		1.7	0.20	ng/L		12/02/21 12:46	12/02/21 21:28	1
6:2 FTS	<2.1		4.2	2.1	ng/L		12/02/21 12:46	12/02/21 21:28	1
8:2 FTS	<0.39		1.7	0.39	ng/L		12/02/21 12:46	12/02/21 21:28	1
10:2 FTS	<0.57		1.7	0.57	ng/L		12/02/21 12:46	12/02/21 21:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		12/02/21 12:46	12/02/21 21:28	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		12/02/21 12:46	12/02/21 21:28	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		12/02/21 12:46	12/02/21 21:28	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		12/02/21 12:46	12/02/21 21:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	54		25 - 150				12/02/21 12:46	12/02/21 21:28	1
13C5 PFPeA	64		25 - 150				12/02/21 12:46	12/02/21 21:28	1
13C2 PFHxA	68		25 - 150				12/02/21 12:46	12/02/21 21:28	1
13C4 PFHpA	73		25 - 150				12/02/21 12:46	12/02/21 21:28	1
13C4 PFOA	76		25 - 150				12/02/21 12:46	12/02/21 21:28	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Well 6

Lab Sample ID: 320-82354-4

Date Collected: 12/01/21 11:01

Matrix: Water

Date Received: 12/02/21 11:35

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	76		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 PFDA	69		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 PFUnA	74		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 PFDoA	70		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 PFTeDA	79		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 PFHxDA	66		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C3 PFBS	74		25 - 150	12/02/21 12:46	12/02/21 21:28	1
18O2 PFHxS	68		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C4 PFOS	72		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C8 FOSA	68		10 - 150	12/02/21 12:46	12/02/21 21:28	1
d3-NMeFOSAA	71		25 - 150	12/02/21 12:46	12/02/21 21:28	1
d5-NEtFOSAA	71		25 - 150	12/02/21 12:46	12/02/21 21:28	1
d-N-MeFOSA-M	64		10 - 150	12/02/21 12:46	12/02/21 21:28	1
d-N-EtFOSA-M	61		10 - 150	12/02/21 12:46	12/02/21 21:28	1
d7-N-MeFOSE-M	55		10 - 150	12/02/21 12:46	12/02/21 21:28	1
d9-N-EtFOSE-M	63		10 - 150	12/02/21 12:46	12/02/21 21:28	1
M2-4:2 FTS	75		25 - 150	12/02/21 12:46	12/02/21 21:28	1
M2-6:2 FTS	72		25 - 150	12/02/21 12:46	12/02/21 21:28	1
M2-8:2 FTS	68		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C3 HFPO-DA	66		25 - 150	12/02/21 12:46	12/02/21 21:28	1
13C2 10:2 FTS	75		25 - 150	12/02/21 12:46	12/02/21 21:28	1

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: WW Outfall

Lab Sample ID: 320-82354-5

Date Collected: 12/01/21 11:06

Matrix: Water

Date Received: 12/02/21 11:35

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.0		4.3	2.1	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoropentanoic acid (PFPeA)	11		1.7	0.43	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorohexanoic acid (PFHxA)	10		1.7	0.50	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.7	0.22	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorooctanoic acid (PFOA)	4.3		1.7	0.74	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.7	0.82	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.17	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoropentanesulfonic acid (PFPeS)	5.7		1.7	0.26	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorohexanesulfonic acid (PFHxS)	50		1.7	0.50	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.3 J		1.7	0.17	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorooctanesulfonic acid (PFOS)	18		1.7	0.47	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		12/02/21 12:46	12/02/21 21:38	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		12/02/21 12:46	12/02/21 21:38	1
NEtFOSA	<0.76		1.7	0.76	ng/L		12/02/21 12:46	12/02/21 21:38	1
NMeFOSA	<0.37		1.7	0.37	ng/L		12/02/21 12:46	12/02/21 21:38	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		12/02/21 12:46	12/02/21 21:38	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		12/02/21 12:46	12/02/21 21:38	1
NMeFOSE	<1.2		3.5	1.2	ng/L		12/02/21 12:46	12/02/21 21:38	1
NEtFOSE	<0.74		1.7	0.74	ng/L		12/02/21 12:46	12/02/21 21:38	1
4:2 FTS	<0.21		1.7	0.21	ng/L		12/02/21 12:46	12/02/21 21:38	1
6:2 FTS	6.2		4.3	2.2	ng/L		12/02/21 12:46	12/02/21 21:38	1
8:2 FTS	<0.40		1.7	0.40	ng/L		12/02/21 12:46	12/02/21 21:38	1
10:2 FTS	<0.58		1.7	0.58	ng/L		12/02/21 12:46	12/02/21 21:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		12/02/21 12:46	12/02/21 21:38	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		12/02/21 12:46	12/02/21 21:38	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		12/02/21 12:46	12/02/21 21:38	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		12/02/21 12:46	12/02/21 21:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150				12/02/21 12:46	12/02/21 21:38	1
13C5 PFPeA	71		25 - 150				12/02/21 12:46	12/02/21 21:38	1
13C2 PFHxA	72		25 - 150				12/02/21 12:46	12/02/21 21:38	1
13C4 PFHpA	75		25 - 150				12/02/21 12:46	12/02/21 21:38	1
13C4 PFOA	77		25 - 150				12/02/21 12:46	12/02/21 21:38	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: WW Outfall

Lab Sample ID: 320-82354-5

Date Collected: 12/01/21 11:06

Matrix: Water

Date Received: 12/02/21 11:35

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	73		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 PFDA	70		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 PFUnA	74		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 PFDoA	76		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 PFTeDA	80		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 PFHxDA	86		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C3 PFBS	84		25 - 150	12/02/21 12:46	12/02/21 21:38	1
18O2 PFHxS	75		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C4 PFOS	74		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C8 FOSA	70		10 - 150	12/02/21 12:46	12/02/21 21:38	1
d3-NMeFOSAA	71		25 - 150	12/02/21 12:46	12/02/21 21:38	1
d5-NEtFOSAA	77		25 - 150	12/02/21 12:46	12/02/21 21:38	1
d-N-MeFOSA-M	53		10 - 150	12/02/21 12:46	12/02/21 21:38	1
d-N-EtFOSA-M	53		10 - 150	12/02/21 12:46	12/02/21 21:38	1
d7-N-MeFOSE-M	58		10 - 150	12/02/21 12:46	12/02/21 21:38	1
d9-N-EtFOSE-M	72		10 - 150	12/02/21 12:46	12/02/21 21:38	1
M2-4:2 FTS	66		25 - 150	12/02/21 12:46	12/02/21 21:38	1
M2-6:2 FTS	67		25 - 150	12/02/21 12:46	12/02/21 21:38	1
M2-8:2 FTS	68		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C3 HFPO-DA	74		25 - 150	12/02/21 12:46	12/02/21 21:38	1
13C2 10:2 FTS	78		25 - 150	12/02/21 12:46	12/02/21 21:38	1

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Chip Riv Downstream

Lab Sample ID: 320-82354-6

Date Collected: 12/01/21 11:14

Matrix: Water

Date Received: 12/02/21 11:35

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.8	J	4.2	2.0	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorohexanoic acid (PFHxA)	0.57	J	1.7	0.48	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoroheptanoic acid (PFHpA)	0.58	J	1.7	0.21	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorooctanoic acid (PFOA)	1.0	J	1.7	0.71	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorononanoic acid (PFNA)	<0.22		1.7	0.22	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoroundecanoic acid (PFUnA)	<0.92		1.7	0.92	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.74		1.7	0.74	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.78		1.7	0.78	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorobutanesulfonic acid (PFBS)	0.33	J	1.7	0.17	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.7	0.25	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.47		1.7	0.47	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorooctanesulfonic acid (PFOS)	0.93	J	1.7	0.45	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.81		1.7	0.81	ng/L		12/02/21 12:46	12/03/21 11:00	1
Perfluorooctanesulfonamide (FOSA)	<0.82		1.7	0.82	ng/L		12/02/21 12:46	12/03/21 11:00	1
NEtFOSA	<0.72		1.7	0.72	ng/L		12/02/21 12:46	12/03/21 11:00	1
NMeFOSA	<0.36		1.7	0.36	ng/L		12/02/21 12:46	12/03/21 11:00	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		12/02/21 12:46	12/03/21 11:00	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		12/02/21 12:46	12/03/21 11:00	1
NMeFOSE	<1.2		3.3	1.2	ng/L		12/02/21 12:46	12/03/21 11:00	1
NEtFOSE	<0.71		1.7	0.71	ng/L		12/02/21 12:46	12/03/21 11:00	1
4:2 FTS	<0.20		1.7	0.20	ng/L		12/02/21 12:46	12/03/21 11:00	1
6:2 FTS	<2.1		4.2	2.1	ng/L		12/02/21 12:46	12/03/21 11:00	1
8:2 FTS	<0.38		1.7	0.38	ng/L		12/02/21 12:46	12/03/21 11:00	1
10:2 FTS	<0.56		1.7	0.56	ng/L		12/02/21 12:46	12/03/21 11:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.7	0.33	ng/L		12/02/21 12:46	12/03/21 11:00	1
HFPO-DA (GenX)	<1.2		3.3	1.2	ng/L		12/02/21 12:46	12/03/21 11:00	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		12/02/21 12:46	12/03/21 11:00	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		12/02/21 12:46	12/03/21 11:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150				12/02/21 12:46	12/03/21 11:00	1
13C5 PFPeA	92		25 - 150				12/02/21 12:46	12/03/21 11:00	1
13C2 PFHxA	98		25 - 150				12/02/21 12:46	12/03/21 11:00	1
13C4 PFHpA	108		25 - 150				12/02/21 12:46	12/03/21 11:00	1
13C4 PFOA	111		25 - 150				12/02/21 12:46	12/03/21 11:00	1
13C5 PFNA	113		25 - 150				12/02/21 12:46	12/03/21 11:00	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Chip Riv Downstream

Lab Sample ID: 320-82354-6

Date Collected: 12/01/21 11:14

Matrix: Water

Date Received: 12/02/21 11:35

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDA	104		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C2 PFUnA	105		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C2 PFDoA	100		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C2 PFTeDA	96		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C2 PFHxDA	81		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C3 PFBS	121		25 - 150	12/02/21 12:46	12/03/21 11:00	1
18O2 PFHxS	100		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C4 PFOS	112		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C8 FOSA	98		10 - 150	12/02/21 12:46	12/03/21 11:00	1
d3-NMeFOSAA	98		25 - 150	12/02/21 12:46	12/03/21 11:00	1
d5-NEtFOSAA	94		25 - 150	12/02/21 12:46	12/03/21 11:00	1
d-N-MeFOSA-M	85		10 - 150	12/02/21 12:46	12/03/21 11:00	1
d-N-EtFOSA-M	79		10 - 150	12/02/21 12:46	12/03/21 11:00	1
d7-N-MeFOSE-M	80		10 - 150	12/02/21 12:46	12/03/21 11:00	1
d9-N-EtFOSE-M	82		10 - 150	12/02/21 12:46	12/03/21 11:00	1
M2-4:2 FTS	137		25 - 150	12/02/21 12:46	12/03/21 11:00	1
M2-6:2 FTS	120		25 - 150	12/02/21 12:46	12/03/21 11:00	1
M2-8:2 FTS	100		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C3 HFPO-DA	90		25 - 150	12/02/21 12:46	12/03/21 11:00	1
13C2 10:2 FTS	106		25 - 150	12/02/21 12:46	12/03/21 11:00	1

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Chip Riv Upstream

Lab Sample ID: 320-82354-7

Date Collected: 12/01/21 11:34

Matrix: Water

Date Received: 12/02/21 11:35

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	4.4	2.1	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorohexanoic acid (PFHxA)	0.68	J	1.8	0.51	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoroheptanoic acid (PFHpA)	0.78	J	1.8	0.22	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorooctanoic acid (PFOA)	1.0	J	1.8	0.75	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorobutanesulfonic acid (PFBS)	0.45	J	1.8	0.18	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorooctanesulfonic acid (PFOS)	0.59	J	1.8	0.48	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		12/02/21 12:46	12/02/21 21:59	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		12/02/21 12:46	12/02/21 21:59	1
NEtFOSA	<0.77		1.8	0.77	ng/L		12/02/21 12:46	12/02/21 21:59	1
NMeFOSA	<0.38		1.8	0.38	ng/L		12/02/21 12:46	12/02/21 21:59	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		12/02/21 12:46	12/02/21 21:59	1
NEtFOSAA	<1.2		4.4	1.2	ng/L		12/02/21 12:46	12/02/21 21:59	1
NMeFOSE	<1.2		3.6	1.2	ng/L		12/02/21 12:46	12/02/21 21:59	1
NEtFOSE	<0.75		1.8	0.75	ng/L		12/02/21 12:46	12/02/21 21:59	1
4:2 FTS	<0.21		1.8	0.21	ng/L		12/02/21 12:46	12/02/21 21:59	1
6:2 FTS	<2.2		4.4	2.2	ng/L		12/02/21 12:46	12/02/21 21:59	1
8:2 FTS	<0.41		1.8	0.41	ng/L		12/02/21 12:46	12/02/21 21:59	1
10:2 FTS	<0.59		1.8	0.59	ng/L		12/02/21 12:46	12/02/21 21:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		12/02/21 12:46	12/02/21 21:59	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		12/02/21 12:46	12/02/21 21:59	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		12/02/21 12:46	12/02/21 21:59	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		12/02/21 12:46	12/02/21 21:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	56		25 - 150				12/02/21 12:46	12/02/21 21:59	1
13C5 PFPeA	70		25 - 150				12/02/21 12:46	12/02/21 21:59	1
13C2 PFHxA	77		25 - 150				12/02/21 12:46	12/02/21 21:59	1
13C4 PFHpA	81		25 - 150				12/02/21 12:46	12/02/21 21:59	1
13C4 PFOA	86		25 - 150				12/02/21 12:46	12/02/21 21:59	1
13C5 PFNA	85		25 - 150				12/02/21 12:46	12/02/21 21:59	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-82354-2

Client Sample ID: Chip Riv Upstream

Lab Sample ID: 320-82354-7

Date Collected: 12/01/21 11:34

Matrix: Water

Date Received: 12/02/21 11:35

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDA	79		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C2 PFUnA	84		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C2 PFDoA	81		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C2 PFTeDA	76		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C2 PFHxDA	68		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C3 PFBS	90		25 - 150	12/02/21 12:46	12/02/21 21:59	1
18O2 PFHxS	76		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C4 PFOS	83		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C8 FOSA	75		10 - 150	12/02/21 12:46	12/02/21 21:59	1
d3-NMeFOSAA	73		25 - 150	12/02/21 12:46	12/02/21 21:59	1
d5-NEtFOSAA	82		25 - 150	12/02/21 12:46	12/02/21 21:59	1
d-N-MeFOSA-M	64		10 - 150	12/02/21 12:46	12/02/21 21:59	1
d-N-EtFOSA-M	68		10 - 150	12/02/21 12:46	12/02/21 21:59	1
d7-N-MeFOSE-M	60		10 - 150	12/02/21 12:46	12/02/21 21:59	1
d9-N-EtFOSE-M	75		10 - 150	12/02/21 12:46	12/02/21 21:59	1
M2-4:2 FTS	100		25 - 150	12/02/21 12:46	12/02/21 21:59	1
M2-6:2 FTS	81		25 - 150	12/02/21 12:46	12/02/21 21:59	1
M2-8:2 FTS	74		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C3 HFPO-DA	80		25 - 150	12/02/21 12:46	12/02/21 21:59	1
13C2 10:2 FTS	85		25 - 150	12/02/21 12:46	12/02/21 21:59	1

Isotope Dilution Summary

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

Job ID: 320-82354-2

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)
320-82354-3	Well 14	64	74	78	78	81	81	80	82
320-82354-4	Well 6	54	64	68	73	76	76	69	74
320-82354-5	WW Outfall	72	71	72	75	77	73	70	74
320-82354-6	Chip Riv Downstream	71	92	98	108	111	113	104	105
320-82354-7	Chip Riv Upstream	56	70	77	81	86	85	79	84
LCS 320-547600/2-A	Lab Control Sample	99	102	95	97	99	93	92	99
LCSD 320-547600/3-A	Lab Control Sample Dup	86	81	86	83	85	84	78	85
MB 320-547600/1-A	Method Blank	69	69	64	63	70	62	64	68

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
320-82354-3	Well 14	79	88	89	91	73	88	72	76
320-82354-4	Well 6	70	79	66	74	68	72	68	71
320-82354-5	WW Outfall	76	80	86	84	75	74	70	71
320-82354-6	Chip Riv Downstream	100	96	81	121	100	112	98	98
320-82354-7	Chip Riv Upstream	81	76	68	90	76	83	75	73
LCS 320-547600/2-A	Lab Control Sample	93	103	102	111	91	98	92	89
LCSD 320-547600/3-A	Lab Control Sample Dup	81	85	84	101	78	83	73	80
MB 320-547600/1-A	Method Blank	69	74	69	77	63	67	58	69

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
320-82354-3	Well 14	79	68	69	69	69	35	71	77
320-82354-4	Well 6	71	64	61	55	63	75	72	68
320-82354-5	WW Outfall	77	53	53	58	72	66	67	68
320-82354-6	Chip Riv Downstream	94	85	79	80	82	137	120	100
320-82354-7	Chip Riv Upstream	82	64	68	60	75	100	81	74
LCS 320-547600/2-A	Lab Control Sample	97	84	79	80	90	87	83	86
LCSD 320-547600/3-A	Lab Control Sample Dup	82	66	76	64	77	69	72	71
MB 320-547600/1-A	Method Blank	74	54	56	54	60	59	58	58

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-82354-3	Well 14	82	85
320-82354-4	Well 6	66	75
320-82354-5	WW Outfall	74	78
320-82354-6	Chip Riv Downstream	90	106
320-82354-7	Chip Riv Upstream	80	85
LCS 320-547600/2-A	Lab Control Sample	102	87
LCSD 320-547600/3-A	Lab Control Sample Dup	84	74
MB 320-547600/1-A	Method Blank	66	61

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA

Isotope Dilution Summary

Job ID: 320-82354-2

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

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

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QC Sample Results

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

Job ID: 320-82354-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-547600/1-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 547600

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/02/21 12:46	12/02/21 20:26	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/02/21 12:46	12/02/21 20:26	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/02/21 12:46	12/02/21 20:26	1
NMeFOSA	<0.43		2.0	0.43	ng/L		12/02/21 12:46	12/02/21 20:26	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		12/02/21 12:46	12/02/21 20:26	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/02/21 12:46	12/02/21 20:26	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/02/21 12:46	12/02/21 20:26	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/02/21 12:46	12/02/21 20:26	1
4:2 FTS	<0.24		2.0	0.24	ng/L		12/02/21 12:46	12/02/21 20:26	1
6:2 FTS	<2.5		5.0	2.5	ng/L		12/02/21 12:46	12/02/21 20:26	1
8:2 FTS	<0.46		2.0	0.46	ng/L		12/02/21 12:46	12/02/21 20:26	1
10:2 FTS	<0.67		2.0	0.67	ng/L		12/02/21 12:46	12/02/21 20:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		12/02/21 12:46	12/02/21 20:26	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		12/02/21 12:46	12/02/21 20:26	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		12/02/21 12:46	12/02/21 20:26	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		12/02/21 12:46	12/02/21 20:26	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	69		25 - 150	12/02/21 12:46	12/02/21 20:26	1			
13C5 PFPeA	69		25 - 150	12/02/21 12:46	12/02/21 20:26	1			
13C2 PFHxA	64		25 - 150	12/02/21 12:46	12/02/21 20:26	1			
13C4 PFHpA	63		25 - 150	12/02/21 12:46	12/02/21 20:26	1			
13C4 PFOA	70		25 - 150	12/02/21 12:46	12/02/21 20:26	1			
13C5 PFNA	62		25 - 150	12/02/21 12:46	12/02/21 20:26	1			

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-82354-2

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

Lab Sample ID: MB 320-547600/1-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 547600

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	64		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C2 PFUnA	68		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C2 PFDoA	69		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C2 PFTeDA	74		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C2 PFHxDA	69		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C3 PFBS	77		25 - 150	12/02/21 12:46	12/02/21 20:26	1
18O2 PFHxS	63		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C4 PFOS	67		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C8 FOSA	58		10 - 150	12/02/21 12:46	12/02/21 20:26	1
d3-NMeFOSAA	69		25 - 150	12/02/21 12:46	12/02/21 20:26	1
d5-NEtFOSAA	74		25 - 150	12/02/21 12:46	12/02/21 20:26	1
d-N-MeFOSA-M	54		10 - 150	12/02/21 12:46	12/02/21 20:26	1
d-N-EtFOSA-M	56		10 - 150	12/02/21 12:46	12/02/21 20:26	1
d7-N-MeFOSE-M	54		10 - 150	12/02/21 12:46	12/02/21 20:26	1
d9-N-EtFOSE-M	60		10 - 150	12/02/21 12:46	12/02/21 20:26	1
M2-4:2 FTS	59		25 - 150	12/02/21 12:46	12/02/21 20:26	1
M2-6:2 FTS	58		25 - 150	12/02/21 12:46	12/02/21 20:26	1
M2-8:2 FTS	58		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C3 HFPO-DA	66		25 - 150	12/02/21 12:46	12/02/21 20:26	1
13C2 10:2 FTS	61		25 - 150	12/02/21 12:46	12/02/21 20:26	1

Lab Sample ID: LCS 320-547600/2-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	34.8		ng/L		87	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	36.5		ng/L		91	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.5		ng/L		101	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	36.2		ng/L		90	60 - 135
Perfluorononanoic acid (PFNA)	40.0	37.3		ng/L		93	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	38.0		ng/L		95	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	36.8		ng/L		92	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.2		ng/L		93	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.2		ng/L		103	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.9		ng/L		92	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.7		ng/L		102	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	29.1		ng/L		73	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	29.3		ng/L		83	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	31.5		ng/L		84	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.2		ng/L		99	60 - 135

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-82354-2

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

Lab Sample ID: LCS 320-547600/2-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	33.9		ng/L		89	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	33.7		ng/L		91	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	34.7		ng/L		90	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	35.5		ng/L		92	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.5		ng/L		97	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.1		ng/L		93	60 - 135
NEtFOSA	40.0	41.9		ng/L		105	60 - 135
NMeFOSA	40.0	38.6		ng/L		96	60 - 135
NMeFOSAA	40.0	38.0		ng/L		95	60 - 135
NEtFOSAA	40.0	37.2		ng/L		93	60 - 135
NMeFOSE	40.0	38.1		ng/L		95	60 - 135
NEtFOSE	40.0	37.3		ng/L		93	60 - 135
4:2 FTS	37.4	33.9		ng/L		91	60 - 135
6:2 FTS	37.9	33.5		ng/L		88	60 - 135
8:2 FTS	38.3	34.2		ng/L		89	60 - 135
10:2 FTS	38.6	38.2		ng/L		99	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.5		ng/L		99	60 - 135
HFPO-DA (GenX)	40.0	35.6		ng/L		89	60 - 135
9Cl-PF3ONS	37.3	32.3		ng/L		87	60 - 135
11Cl-PF3OUdS	37.7	36.3		ng/L		96	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	99		25 - 150
13C5 PFPeA	102		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	99		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	103		25 - 150
13C2 PFHxDA	102		25 - 150
13C3 PFBS	111		25 - 150
18O2 PFHxS	91		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	92		10 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	97		25 - 150
d-N-MeFOSA-M	84		10 - 150
d-N-EtFOSA-M	79		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	90		10 - 150

QC Sample Results

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

Job ID: 320-82354-2

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

Lab Sample ID: LCS 320-547600/2-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547600

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-4:2 FTS	87		25 - 150
M2-6:2 FTS	83		25 - 150
M2-8:2 FTS	86		25 - 150
13C3 HFPO-DA	102		25 - 150
13C2 10:2 FTS	87		25 - 150

Lab Sample ID: LCSD 320-547600/3-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 547600

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD</i>	<i>Limit</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>			
Perfluorobutanoic acid (PFBA)	40.0	38.1		ng/L		95	60 - 135	9		30
Perfluoropentanoic acid (PFPeA)	40.0	38.3		ng/L		96	60 - 135	9		30
Perfluorohexanoic acid (PFHxA)	40.0	37.3		ng/L		93	60 - 135	2		30
Perfluoroheptanoic acid (PFHpA)	40.0	37.8		ng/L		94	60 - 135	7		30
Perfluorooctanoic acid (PFOA)	40.0	35.9		ng/L		90	60 - 135	1		30
Perfluorononanoic acid (PFNA)	40.0	37.5		ng/L		94	60 - 135	0		30
Perfluorodecanoic acid (PFDA)	40.0	34.7		ng/L		87	60 - 135	9		30
Perfluoroundecanoic acid (PFUnA)	40.0	34.3		ng/L		86	60 - 135	7		30
Perfluorododecanoic acid (PFDoA)	40.0	39.8		ng/L		99	60 - 135	7		30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.0		ng/L		100	60 - 135	3		30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.3		ng/L		96	60 - 135	4		30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.6		ng/L		97	60 - 135	5		30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	27.8		ng/L		69	60 - 135	5		30
Perfluorobutanesulfonic acid (PFBS)	35.4	27.4		ng/L		78	60 - 135	6		30
Perfluoropentanesulfonic acid (PFPeS)	37.5	29.8		ng/L		79	60 - 135	6		30
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.1		ng/L		99	60 - 135	0		30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.1		ng/L		90	60 - 135	1		30
Perfluorooctanesulfonic acid (PFOS)	37.1	35.0		ng/L		94	60 - 135	4		30
Perfluorononanesulfonic acid (PFNS)	38.4	34.5		ng/L		90	60 - 135	1		30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6		ng/L		92	60 - 135	0		30
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.7		ng/L		100	60 - 135	3		30
Perfluorooctanesulfonamide (FOSA)	40.0	37.6		ng/L		94	60 - 135	1		30
NEtFOSA	40.0	37.2		ng/L		93	60 - 135	12		30
NMeFOSA	40.0	39.8		ng/L		99	60 - 135	3		30
NMeFOSAA	40.0	36.9		ng/L		92	60 - 135	3		30
NEtFOSAA	40.0	36.7		ng/L		92	60 - 135	1		30
NMeFOSE	40.0	42.2		ng/L		105	60 - 135	10		30

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-82354-2

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

Lab Sample ID: LCSD 320-547600/3-A
Matrix: Water
Analysis Batch: 547697

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 547600

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NETFOSE	40.0	35.4		ng/L		88	60 - 135	5	30
4:2 FTS	37.4	35.8		ng/L		96	60 - 135	5	30
6:2 FTS	37.9	30.9		ng/L		82	60 - 135	8	30
8:2 FTS	38.3	31.2		ng/L		81	60 - 135	9	30
10:2 FTS	38.6	36.7		ng/L		95	60 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	35.6		ng/L		95	60 - 135	5	30
HFPO-DA (GenX)	40.0	36.7		ng/L		92	60 - 135	3	30
9CI-PF3ONS	37.3	33.3		ng/L		89	60 - 135	3	30
11CI-PF3OUdS	37.7	36.3		ng/L		96	60 - 135	0	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	86		25 - 150
13C5 PFPeA	81		25 - 150
13C2 PFHxA	86		25 - 150
13C4 PFHpA	83		25 - 150
13C4 PFOA	85		25 - 150
13C5 PFNA	84		25 - 150
13C2 PFDA	78		25 - 150
13C2 PFUnA	85		25 - 150
13C2 PFDoA	81		25 - 150
13C2 PFTeDA	85		25 - 150
13C2 PFHxDA	84		25 - 150
13C3 PFBS	101		25 - 150
18O2 PFHxS	78		25 - 150
13C4 PFOS	83		25 - 150
13C8 FOSA	73		10 - 150
d3-NMeFOSAA	80		25 - 150
d5-NEtFOSAA	82		25 - 150
d-N-MeFOSA-M	66		10 - 150
d-N-EtFOSA-M	76		10 - 150
d7-N-MeFOSE-M	64		10 - 150
d9-N-EtFOSE-M	77		10 - 150
M2-4:2 FTS	69		25 - 150
M2-6:2 FTS	72		25 - 150
M2-8:2 FTS	71		25 - 150
13C3 HFPO-DA	84		25 - 150
13C2 10:2 FTS	74		25 - 150

QC Association Summary

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

Job ID: 320-82354-2

LCMS

Prep Batch: 547600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-82354-3	Well 14	Total/NA	Water	3535	
320-82354-4	Well 6	Total/NA	Water	3535	
320-82354-5	WW Outfall	Total/NA	Water	3535	
320-82354-6	Chip Riv Downstream	Total/NA	Water	3535	
320-82354-7	Chip Riv Upstream	Total/NA	Water	3535	
MB 320-547600/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-547600/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-547600/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 547697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-82354-3	Well 14	Total/NA	Water	537 (modified)	547600
320-82354-4	Well 6	Total/NA	Water	537 (modified)	547600
320-82354-5	WW Outfall	Total/NA	Water	537 (modified)	547600
320-82354-7	Chip Riv Upstream	Total/NA	Water	537 (modified)	547600
MB 320-547600/1-A	Method Blank	Total/NA	Water	537 (modified)	547600
LCS 320-547600/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	547600
LCSD 320-547600/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	547600

Analysis Batch: 547886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-82354-6	Chip Riv Downstream	Total/NA	Water	537 (modified)	547600

Lab Chronicle

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

Job ID: 320-82354-2

Client Sample ID: Well 14

Date Collected: 12/01/21 10:54

Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-3

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			265.7 mL	10.0 mL	547600	12/02/21 12:46	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			547697	12/02/21 21:18	RS1	TAL SAC

Client Sample ID: Well 6

Date Collected: 12/01/21 11:01

Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-4

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			294.4 mL	10.0 mL	547600	12/02/21 12:46	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			547697	12/02/21 21:28	RS1	TAL SAC

Client Sample ID: WW Outfall

Date Collected: 12/01/21 11:06

Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-5

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			287.6 mL	10.0 mL	547600	12/02/21 12:46	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			547697	12/02/21 21:38	RS1	TAL SAC

Client Sample ID: Chip Riv Downstream

Date Collected: 12/01/21 11:14

Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-6

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			300.4 mL	10.0 mL	547600	12/02/21 12:46	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			547886	12/03/21 11:00	JY1	TAL SAC

Client Sample ID: Chip Riv Upstream

Date Collected: 12/01/21 11:34

Date Received: 12/02/21 11:35

Lab Sample ID: 320-82354-7

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			281.6 mL	10.0 mL	547600	12/02/21 12:46	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			547697	12/02/21 21:59	RS1	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: 320-82354-2

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

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Method Summary

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

Job ID: 320-82354-2

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: 320-82354-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-82354-3	Well 14	Water	12/01/21 10:54	12/02/21 11:35
320-82354-4	Well 6	Water	12/01/21 11:01	12/02/21 11:35
320-82354-5	WW Outfall	Water	12/01/21 11:06	12/02/21 11:35
320-82354-6	Chip Riv Downstream	Water	12/01/21 11:14	12/02/21 11:35
320-82354-7	Chip Riv Upstream	Water	12/01/21 11:34	12/02/21 11:35

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Chain of Custody Record

Client Information
 Client Contact: Tyler Fadness
 Company: Ty Fadness
 City of Eau Claire
 Address: 203 S Ferwell
 City: Eau Claire
 State, Zip: WI, 54701
 Phone: 50210879-00
 Email: Tyler.Fadness@EauClaireWI.Gov
 Project Name: PFAS Testing
 Site: 50210879-00

Lab PII: Fredrick, Sandie
E-Mail: sandra.fredrick@eurofinset.com
Carrier Tracking No(s):
State of Origin:

Sample: Tyler Fadness
Phone: 715-839-0121
PWSID:

Due Date Requested: 12/31/21 (Standard)
TAT Requested (days): 1-DAY TAT → EP and DALL Standard all OTHERS
Compliance Project: Yes No
PO #:
WO #:
Project #: 32012617
SSOW #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Groundwater, On-water, Air, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFIC, IDA - PFAS, Extended List (35 Analytes)	PFIB, PAHs, PCBs, Standard List (16 Analytes)	Total Number of Containers	Special Instructions/Note:
Entry Point - Line 1	12/1/21	0655	G	Water	X	X	X			
Well 9	12/1/21	1049	G	Water	X	X	X			
Well 14	12/1/21	1054	G	Water	X	X	X			
Well 6	12/1/21	1101	G	Water	X	X	X			
WU Outfall	12/1/21	1100	G	Water	X	X	X			
Chip Riv Downstream	12/1/21	1114	G	Water	X	X	X			
Chip Riv Upstream	12/1/21	1134	G	Water	X	X	X			
				Water						
				Water						
				Water						

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Preservation Codes:
 M - Hexane
 N - Nona
 O - AsH2O2
 P - Na2OAS
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Cobaltoaldehyde
 U - Acetone
 V - Me4A
 W - Bst 4-5
 Z - other (specify):

Special Instructions/Note:

Barcode: 320-82354 Chain of Custody

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

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

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:

Empty Kit Relinquished by: _____ Date: 12/1/21 1330
 Relinquished by: _____ Date/Time: 12/1/21 1135
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Method of Shipment: _____
 Date/Time: 12-2-21 11:35
 Date/Time: _____
 Date/Time: _____

Company: Eurofins
Company: Eurofins
Company: Eurofins

Cooler Temperature: 1.5 °C and Other Remarks:

Custody Seal No.: 1601492/1601493

Yes A No



Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-82354-2

Login Number: 82354

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1601492/1601493
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?	True	
There are no discrepancies between the containers received and the COC.	True	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

