

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213930-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness



Authorized for release by:
3/21/2022 6:46:35 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



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Case Narrative

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

Job ID: 500-213930-1

Job ID: 500-213930-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-213930-1**

Comments

No additional comments.

Receipt

The samples were received on 3/17/2022 9:20 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 1.4° C.

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-574495. Method: PFC_IDA_WI Matrix: Water

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: 500-213930-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-213930-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.3	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.3		1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.31	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.5		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-213930-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

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

Job ID: 500-213930-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

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

Job ID: 500-213930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213930-1	Entry Point-Line 1	Water	03/16/22 09:49	03/17/22 00:00
500-213930-2	EP-Field Blank	Water	03/16/22 09:51	03/17/22 00:00

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- 15
- 16

Client Sample Results

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

Job ID: 500-213930-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-213930-1

Date Collected: 03/16/22 09:49

Matrix: Water

Date Received: 03/17/22 00:00

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	2.3	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoropentanoic acid (PFPeA)	2.0		1.9	0.46	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.55	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.9	0.24	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorooctanoic acid (PFOA)	2.3		1.9	0.80	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorononanoic acid (PFNA)	0.31	J	1.9	0.25	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorobutanesulfonic acid (PFBS)	2.7		1.9	0.19	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.9	0.28	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorohexanesulfonic acid (PFHxS)	13		1.9	0.54	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorooctanesulfonic acid (PFOS)	5.5		1.9	0.51	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		03/18/22 12:03	03/21/22 09:21	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		03/18/22 12:03	03/21/22 09:21	1
NEtFOSA	<0.82		1.9	0.82	ng/L		03/18/22 12:03	03/21/22 09:21	1
NMeFOSA	<0.40		1.9	0.40	ng/L		03/18/22 12:03	03/21/22 09:21	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		03/18/22 12:03	03/21/22 09:21	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		03/18/22 12:03	03/21/22 09:21	1
NMeFOSE	<1.3		3.8	1.3	ng/L		03/18/22 12:03	03/21/22 09:21	1
NEtFOSE	<0.80		1.9	0.80	ng/L		03/18/22 12:03	03/21/22 09:21	1
4:2 FTS	<0.23		1.9	0.23	ng/L		03/18/22 12:03	03/21/22 09:21	1
6:2 FTS	<2.4		4.7	2.4	ng/L		03/18/22 12:03	03/21/22 09:21	1
8:2 FTS	<0.43		1.9	0.43	ng/L		03/18/22 12:03	03/21/22 09:21	1
10:2 FTS	<0.63		1.9	0.63	ng/L		03/18/22 12:03	03/21/22 09:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		03/18/22 12:03	03/21/22 09:21	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		03/18/22 12:03	03/21/22 09:21	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		03/18/22 12:03	03/21/22 09:21	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		03/18/22 12:03	03/21/22 09:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150				03/18/22 12:03	03/21/22 09:21	1
13C5 PFPeA	79		25 - 150				03/18/22 12:03	03/21/22 09:21	1
13C2 PFHxA	86		25 - 150				03/18/22 12:03	03/21/22 09:21	1
13C4 PFHpA	89		25 - 150				03/18/22 12:03	03/21/22 09:21	1
13C4 PFOA	90		25 - 150				03/18/22 12:03	03/21/22 09:21	1

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Client Sample Results

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

Job ID: 500-213930-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-213930-1

Date Collected: 03/16/22 09:49

Matrix: Water

Date Received: 03/17/22 00:00

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	87		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 PFDA	87		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 PFUnA	78		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 PFDoA	78		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 PFTeDA	80		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 PFHxDA	99		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C3 PFBS	91		25 - 150	03/18/22 12:03	03/21/22 09:21	1
18O2 PFHxS	95		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C4 PFOS	94		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C8 FOSA	110		10 - 150	03/18/22 12:03	03/21/22 09:21	1
d3-NMeFOSAA	82		25 - 150	03/18/22 12:03	03/21/22 09:21	1
d5-NEtFOSAA	84		25 - 150	03/18/22 12:03	03/21/22 09:21	1
d-N-MeFOSA-M	76		10 - 150	03/18/22 12:03	03/21/22 09:21	1
d-N-EtFOSA-M	74		10 - 150	03/18/22 12:03	03/21/22 09:21	1
d7-N-MeFOSE-M	66		10 - 150	03/18/22 12:03	03/21/22 09:21	1
d9-N-EtFOSE-M	66		10 - 150	03/18/22 12:03	03/21/22 09:21	1
M2-4:2 FTS	95		25 - 150	03/18/22 12:03	03/21/22 09:21	1
M2-6:2 FTS	94		25 - 150	03/18/22 12:03	03/21/22 09:21	1
M2-8:2 FTS	90		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C3 HFPO-DA	83		25 - 150	03/18/22 12:03	03/21/22 09:21	1
13C2 10:2 FTS	80		25 - 150	03/18/22 12:03	03/21/22 09:21	1

Client Sample Results

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

Job ID: 500-213930-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-213930-2

Date Collected: 03/16/22 09:51

Matrix: Water

Date Received: 03/17/22 00:00

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		03/18/22 12:03	03/21/22 09:31	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		03/18/22 12:03	03/21/22 09:31	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		03/18/22 12:03	03/21/22 09:31	1
NEtFOSA	<0.78		1.8	0.78	ng/L		03/18/22 12:03	03/21/22 09:31	1
NMeFOSA	<0.39		1.8	0.39	ng/L		03/18/22 12:03	03/21/22 09:31	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		03/18/22 12:03	03/21/22 09:31	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		03/18/22 12:03	03/21/22 09:31	1
NMeFOSE	<1.3		3.6	1.3	ng/L		03/18/22 12:03	03/21/22 09:31	1
NEtFOSE	<0.76		1.8	0.76	ng/L		03/18/22 12:03	03/21/22 09:31	1
4:2 FTS	<0.22		1.8	0.22	ng/L		03/18/22 12:03	03/21/22 09:31	1
6:2 FTS	<2.2		4.5	2.2	ng/L		03/18/22 12:03	03/21/22 09:31	1
8:2 FTS	<0.41		1.8	0.41	ng/L		03/18/22 12:03	03/21/22 09:31	1
10:2 FTS	<0.60		1.8	0.60	ng/L		03/18/22 12:03	03/21/22 09:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		03/18/22 12:03	03/21/22 09:31	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		03/18/22 12:03	03/21/22 09:31	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		03/18/22 12:03	03/21/22 09:31	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		03/18/22 12:03	03/21/22 09:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C5 PFPeA	82		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C2 PFHxA	91		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C4 PFHpA	94		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C4 PFOA	96		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C5 PFNA	94		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C2 PFDA	99		25 - 150				03/18/22 12:03	03/21/22 09:31	1
13C2 PFUnA	91		25 - 150				03/18/22 12:03	03/21/22 09:31	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-213930-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-213930-2

Date Collected: 03/16/22 09:51

Matrix: Water

Date Received: 03/17/22 00:00

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 PFDoA	93		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C2 PFTeDA	94		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C2 PFHxDA	99		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C3 PFBS	87		25 - 150	03/18/22 12:03	03/21/22 09:31	1
18O2 PFHxS	95		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C4 PFOS	99		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C8 FOSA	104		10 - 150	03/18/22 12:03	03/21/22 09:31	1
d3-NMeFOSAA	103		25 - 150	03/18/22 12:03	03/21/22 09:31	1
d5-NEtFOSAA	103		25 - 150	03/18/22 12:03	03/21/22 09:31	1
d-N-MeFOSA-M	84		10 - 150	03/18/22 12:03	03/21/22 09:31	1
d-N-EtFOSA-M	81		10 - 150	03/18/22 12:03	03/21/22 09:31	1
d7-N-MeFOSE-M	88		10 - 150	03/18/22 12:03	03/21/22 09:31	1
d9-N-EtFOSE-M	84		10 - 150	03/18/22 12:03	03/21/22 09:31	1
M2-4:2 FTS	101		25 - 150	03/18/22 12:03	03/21/22 09:31	1
M2-6:2 FTS	92		25 - 150	03/18/22 12:03	03/21/22 09:31	1
M2-8:2 FTS	105		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C3 HFPO-DA	85		25 - 150	03/18/22 12:03	03/21/22 09:31	1
13C2 10:2 FTS	97		25 - 150	03/18/22 12:03	03/21/22 09:31	1

Definitions/Glossary

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

Job ID: 500-213930-1

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

QC Association Summary

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

Job ID: 500-213930-1

LCMS

Prep Batch: 574495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213930-1	Entry Point-Line 1	Total/NA	Water	3535	
500-213930-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-574495/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-574495/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-574495/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 574546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213930-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	574495
500-213930-2	EP-Field Blank	Total/NA	Water	537 (modified)	574495
MB 320-574495/1-A	Method Blank	Total/NA	Water	537 (modified)	574495
LCS 320-574495/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	574495
LCSD 320-574495/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	574495

QC Sample Results

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

Job ID: 500-213930-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-574495/1-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574495

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/18/22 12:03	03/21/22 08:50	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/18/22 12:03	03/21/22 08:50	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/18/22 12:03	03/21/22 08:50	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/18/22 12:03	03/21/22 08:50	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/18/22 12:03	03/21/22 08:50	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/18/22 12:03	03/21/22 08:50	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/18/22 12:03	03/21/22 08:50	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/18/22 12:03	03/21/22 08:50	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/18/22 12:03	03/21/22 08:50	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/18/22 12:03	03/21/22 08:50	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/18/22 12:03	03/21/22 08:50	1
10:2 FTS	<0.67		2.0	0.67	ng/L		03/18/22 12:03	03/21/22 08:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		03/18/22 12:03	03/21/22 08:50	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/18/22 12:03	03/21/22 08:50	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		03/18/22 12:03	03/21/22 08:50	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		03/18/22 12:03	03/21/22 08:50	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	78		25 - 150	03/18/22 12:03	03/21/22 08:50	1			
13C5 PFPeA	73		25 - 150	03/18/22 12:03	03/21/22 08:50	1			
13C2 PFHxA	75		25 - 150	03/18/22 12:03	03/21/22 08:50	1			
13C4 PFHpA	80		25 - 150	03/18/22 12:03	03/21/22 08:50	1			
13C4 PFOA	90		25 - 150	03/18/22 12:03	03/21/22 08:50	1			
13C5 PFNA	82		25 - 150	03/18/22 12:03	03/21/22 08:50	1			

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QC Sample Results

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

Job ID: 500-213930-1

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

Lab Sample ID: MB 320-574495/1-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574495

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	86		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C2 PFUnA	78		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C2 PFDoA	80		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C2 PFTeDA	84		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C2 PFHxDA	90		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C3 PFBS	77		25 - 150	03/18/22 12:03	03/21/22 08:50	1
18O2 PFHxS	86		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C4 PFOS	84		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C8 FOSA	94		10 - 150	03/18/22 12:03	03/21/22 08:50	1
d3-NMeFOSAA	85		25 - 150	03/18/22 12:03	03/21/22 08:50	1
d5-NEtFOSAA	85		25 - 150	03/18/22 12:03	03/21/22 08:50	1
d-N-MeFOSA-M	70		10 - 150	03/18/22 12:03	03/21/22 08:50	1
d-N-EtFOSA-M	70		10 - 150	03/18/22 12:03	03/21/22 08:50	1
d7-N-MeFOSE-M	82		10 - 150	03/18/22 12:03	03/21/22 08:50	1
d9-N-EtFOSE-M	76		10 - 150	03/18/22 12:03	03/21/22 08:50	1
M2-4:2 FTS	84		25 - 150	03/18/22 12:03	03/21/22 08:50	1
M2-6:2 FTS	84		25 - 150	03/18/22 12:03	03/21/22 08:50	1
M2-8:2 FTS	90		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C3 HFPO-DA	70		25 - 150	03/18/22 12:03	03/21/22 08:50	1
13C2 10:2 FTS	75		25 - 150	03/18/22 12:03	03/21/22 08:50	1

Lab Sample ID: LCS 320-574495/2-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	41.9		ng/L		105	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.0		ng/L		97	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.8		ng/L		102	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	37.9		ng/L		95	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.6		ng/L		104	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	31.1		ng/L		78	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.6		ng/L		101	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	40.8		ng/L		102	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	39.9		ng/L		100	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.0		ng/L		100	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.5		ng/L		96	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	40.8		ng/L		102	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	36.8		ng/L		104	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.7		ng/L		95	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.3		ng/L		91	60 - 135

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QC Sample Results

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

Job ID: 500-213930-1

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

Lab Sample ID: LCS 320-574495/2-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.9		ng/L		92	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.9		ng/L		94	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	37.0		ng/L		96	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	35.0		ng/L		91	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	35.9		ng/L		93	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	34.8		ng/L		87	60 - 135
NEtFOSA	40.0	39.2		ng/L		98	60 - 135
NMeFOSA	40.0	40.3		ng/L		101	60 - 135
NMeFOSAA	40.0	39.4		ng/L		99	60 - 135
NEtFOSAA	40.0	36.9		ng/L		92	60 - 135
NMeFOSE	40.0	38.8		ng/L		97	60 - 135
NEtFOSE	40.0	41.8		ng/L		105	60 - 135
4:2 FTS	37.4	39.8		ng/L		107	60 - 135
6:2 FTS	37.9	33.4		ng/L		88	60 - 135
8:2 FTS	38.3	40.3		ng/L		105	60 - 135
10:2 FTS	38.6	37.0		ng/L		96	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.5		ng/L		97	60 - 135
HFPO-DA (GenX)	40.0	43.5		ng/L		109	60 - 135
9Cl-PF3ONS	37.3	32.5		ng/L		87	60 - 135
11Cl-PF3OUdS	37.7	32.9		ng/L		87	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	84		25 - 150
13C5 PFPeA	78		25 - 150
13C2 PFHxA	83		25 - 150
13C4 PFHpA	92		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	90		25 - 150
13C2 PFTeDA	88		25 - 150
13C2 PFHxDA	94		25 - 150
13C3 PFBS	82		25 - 150
18O2 PFHxS	91		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	97		10 - 150
d3-NMeFOSAA	95		25 - 150
d5-NEtFOSAA	98		25 - 150
d-N-MeFOSA-M	77		10 - 150
d-N-EtFOSA-M	74		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	78		10 - 150

QC Sample Results

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

Job ID: 500-213930-1

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

Lab Sample ID: LCS 320-574495/2-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574495

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-4:2 FTS	86		25 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	77		25 - 150
13C2 10:2 FTS	92		25 - 150

Lab Sample ID: LCSD 320-574495/3-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574495

<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	41.3		ng/L		103	60 - 135	1	30	
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	60 - 135	9	30	
Perfluorohexanoic acid (PFHxA)	40.0	39.1		ng/L		98	60 - 135	0	30	
Perfluoroheptanoic acid (PFHpA)	40.0	47.0		ng/L		118	60 - 135	14	30	
Perfluorooctanoic acid (PFOA)	40.0	44.7		ng/L		112	60 - 135	16	30	
Perfluorononanoic acid (PFNA)	40.0	40.4		ng/L		101	60 - 135	3	30	
Perfluorodecanoic acid (PFDA)	40.0	36.3		ng/L		91	60 - 135	15	30	
Perfluoroundecanoic acid (PFUnA)	40.0	40.8		ng/L		102	60 - 135	1	30	
Perfluorododecanoic acid (PFDoA)	40.0	40.5		ng/L		101	60 - 135	1	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	38.3		ng/L		96	60 - 135	4	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.7		ng/L		94	60 - 135	6	30	
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	39.0		ng/L		98	60 - 135	1	30	
Perfluoro-n-octadecanoic acid (PFODA)	40.0	41.5		ng/L		104	60 - 135	2	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	60 - 135	3	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	34.2		ng/L		91	60 - 135	4	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.1		ng/L		91	60 - 135	1	30	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.7		ng/L		96	60 - 135	5	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.1		ng/L		100	60 - 135	6	30	
Perfluorononanesulfonic acid (PFNS)	38.4	38.7		ng/L		101	60 - 135	4	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.2		ng/L		99	60 - 135	9	30	
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.5		ng/L		97	60 - 135	4	30	
Perfluorooctanesulfonamide (FOSA)	40.0	36.1		ng/L		90	60 - 135	4	30	
NEtFOSA	40.0	41.1		ng/L		103	60 - 135	5	30	
NMeFOSA	40.0	44.9		ng/L		112	60 - 135	11	30	
NMeFOSAA	40.0	45.5		ng/L		114	60 - 135	14	30	
NEtFOSAA	40.0	37.2		ng/L		93	60 - 135	1	30	
NMeFOSE	40.0	42.1		ng/L		105	60 - 135	8	30	

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QC Sample Results

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

Job ID: 500-213930-1

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

Lab Sample ID: LCSD 320-574495/3-A
Matrix: Water
Analysis Batch: 574546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE	40.0	41.8		ng/L		105	60 - 135	0	30
4:2 FTS	37.4	42.0		ng/L		112	60 - 135	5	30
6:2 FTS	37.9	35.0		ng/L		92	60 - 135	5	30
8:2 FTS	38.3	39.6		ng/L		103	60 - 135	2	30
10:2 FTS	38.6	38.9		ng/L		101	60 - 135	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	39.8		ng/L		106	60 - 135	9	30
HFPO-DA (GenX)	40.0	46.9		ng/L		117	60 - 135	8	30
9CI-PF3ONS	37.3	36.4		ng/L		98	60 - 135	11	30
11CI-PF3OUdS	37.7	37.5		ng/L		100	60 - 135	13	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	92		25 - 150
13C5 PFPeA	85		25 - 150
13C2 PFHxA	88		25 - 150
13C4 PFHpA	88		25 - 150
13C4 PFOA	88		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	89		25 - 150
13C2 PFUnA	95		25 - 150
13C2 PFDoA	95		25 - 150
13C2 PFTeDA	94		25 - 150
13C2 PFHxDA	101		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	98		25 - 150
13C8 FOSA	100		10 - 150
d3-NMeFOSAA	93		25 - 150
d5-NEtFOSAA	104		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	82		10 - 150
d7-N-MeFOSE-M	90		10 - 150
d9-N-EtFOSE-M	86		10 - 150
M2-4:2 FTS	88		25 - 150
M2-6:2 FTS	92		25 - 150
M2-8:2 FTS	86		25 - 150
13C3 HFPO-DA	80		25 - 150
13C2 10:2 FTS	92		25 - 150

Lab Chronicle

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

Job ID: 500-213930-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-213930-1

Date Collected: 03/16/22 09:49

Matrix: Water

Date Received: 03/17/22 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			574495	03/18/22 12:03	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	574546	03/21/22 09:21	AF	TAL SAC

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-213930-2

Date Collected: 03/16/22 09:51

Matrix: Water

Date Received: 03/17/22 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			574495	03/18/22 12:03	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	574546	03/21/22 09:31	AF	TAL SAC

Laboratory References:

TAL SAC = Eurofins 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: 500-213930-1

Laboratory: Eurofins 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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Client Information

Client Contact: Tyler Faddress
 Ty Faddress
 Company: TAT
 City of Eau Claire
 Address: 1000 Ferry Street
 City: Eau Claire
 State: WI
 Zip: 54703
 Phone: 50210879-00
 Email: Tyler.Faddress@EauClaire.WI.Gov
 Project Name: PFAS Testing
 Site: SSOVW#

Sampler: TAT Faddress
 Phone: 715-839-6121
 Lab P#: Fredrick, Sandie
 E-Mail: sandra.fredrick@eurofins.com

Carrier Tracking No(s):
 State of Origin:

COC No: 500-98847-43338-1
 Page: Page 1 of 2

Due Date Requested: 3/18/22
 TAT Requested (days): 1 Day TAT
 Compliance Project: Yes No
 PO #: 50210879-00
 WO #:

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Acetone
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (G=grab)	Matrix (Preserv, Sealed, On-water, B1-Tissue, A+H)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
Entry Point - Line 1	3/16/22	0949	G	Water	X				
EP - Field Blank	3/16/22	0651	G	Water	X				
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					



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: _____

Relinquished by: *[Signature]* Date/Time: 3/16/22 1100 Company: C17905 LLC
 Relinquished by: *[Signature]* Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No: 1802792
 Cooler Temperature(s) °C and Other Remarks: 14

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-213930-1

Login Number: 213930

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-213930-1

Login Number: 213930

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 03/19/22 08:59 AM

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	1802792
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	1.4C
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	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



500-213930 Field Sheet

Tracking #: 5632 2638 7920

Job: _____

SO / ~~EO~~ / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: L09 Corr. Factor: (+/-) _____ °C

Ice Y Wet X Gel _____ Other _____

Cooler Custody Seal: 1002792

Cooler ID: _____

Temp Observed: 1.4 °C Corrected: 1.4 °C
From: Temp Blank Sample 3/17/22

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: DK Date: 3/17/22

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: So Date: 3-19-22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: So Date: 3-19-22

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Isotope Dilution Summary

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

Job ID: 500-213930-1

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)
500-213930-1	Entry Point-Line 1	78	79	86	89	90	87	87	78
500-213930-2	EP-Field Blank	95	82	91	94	96	94	99	91
LCS 320-574495/2-A	Lab Control Sample	84	78	83	92	95	93	92	91
LCSD 320-574495/3-A	Lab Control Sample Dup	92	85	88	88	88	96	89	95
MB 320-574495/1-A	Method Blank	78	73	75	80	90	82	86	78

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)
500-213930-1	Entry Point-Line 1	78	80	99	91	95	94	110	82
500-213930-2	EP-Field Blank	93	94	99	87	95	99	104	103
LCS 320-574495/2-A	Lab Control Sample	90	88	94	82	91	99	97	95
LCSD 320-574495/3-A	Lab Control Sample Dup	95	94	101	92	98	98	100	93
MB 320-574495/1-A	Method Blank	80	84	90	77	86	84	94	85

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)
500-213930-1	Entry Point-Line 1	84	76	74	66	66	95	94	90
500-213930-2	EP-Field Blank	103	84	81	88	84	101	92	105
LCS 320-574495/2-A	Lab Control Sample	98	77	74	85	78	86	87	88
LCSD 320-574495/3-A	Lab Control Sample Dup	104	80	82	90	86	88	92	86
MB 320-574495/1-A	Method Blank	85	70	70	82	76	84	84	90

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-213930-1	Entry Point-Line 1	83	80
500-213930-2	EP-Field Blank	85	97
LCS 320-574495/2-A	Lab Control Sample	77	92
LCSD 320-574495/3-A	Lab Control Sample Dup	80	92
MB 320-574495/1-A	Method Blank	70	75

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
PFDaA = 13C2 PFDaA
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

Isotope Dilution Summary

Job ID: 500-213930-1

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

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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