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ANALYTICAL REPORT

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

Laboratory Job ID: 320-83326-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness

Sandra Fredrick

Authorized for release by:
12/27/2021 9:30:46 AM

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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.

Table of Contents

Definitions/Glossary

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

Job ID: 320-83326-1

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.
¤	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

Job ID: 320-83326-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-83326-1

Comments
No additional comments.

Receipt
The samples were received on 12/23/2021 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

LCMS
Method 537 (modified): The transition mass ratio was outside of the established ratio limit for NMeFOSA in (CCVL 320-553841/2) associated to this data set. This is indicated by the "R" flag in the raw data. As the flagged data is in control in the low level continuing calibration verification (CCVL), there is no adverse impact to the data. (CCVL 320-553841/2)

Method 537 (modified): The continuing calibration verification (CCV) associated with batch 320-553908 recovered above the upper control limit for Perfluoropentanesulfonic acid (PFPeS). The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or 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 320-553735. Method: 3535_PFC_28D 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: 320-83326-1

Client Sample ID: Entry Point - Line 1 — Lab Sample ID: 320-83326-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.0	J	4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.53	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.54	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.34	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.3	J	1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.4	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.8		1.8	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Entry Point - FB — Lab Sample ID: 320-83326-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 320-83326-1

Client Sample ID: Entry Point - Line 1

Date Collected: 12/22/21 11:22
Date Received: 12/23/21 10:45

Lab Sample ID: 320-83326-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.0**	**J**	4.5	2.1	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoropentanoic acid (PFPeA)	**0.53**	**J**	1.8	0.44	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorohexanoic acid (PFHxA)	**0.54**	**J**	1.8	0.52	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoroheptanoic acid (PFHpA)	**0.34**	**J**	1.8	0.22	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorooctanoic acid (PFOA)	**1.3**	**J**	1.8	0.76	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorobutanesulfonic acid (PFBS)	**1.8**		1.8	0.18	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoropentanesulfonic acid (PFPeS)	**1.4**	**J**	1.8	0.27	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorohexanesulfonic acid (PFHxS)	**6.8**		1.8	0.51	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		12/23/21 18:52	12/26/21 10:59	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		12/23/21 18:52	12/26/21 10:59	1
NEtFOSA	<0.78		1.8	0.78	ng/L		12/23/21 18:52	12/26/21 10:59	1
NMeFOSA	<0.38		1.8	0.38	ng/L		12/23/21 18:52	12/26/21 10:59	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		12/23/21 18:52	12/26/21 10:59	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		12/23/21 18:52	12/26/21 10:59	1
NMeFOSE	<1.2		3.6	1.2	ng/L		12/23/21 18:52	12/26/21 10:59	1
NEtFOSE	<0.76		1.8	0.76	ng/L		12/23/21 18:52	12/26/21 10:59	1
4:2 FTS	<0.21		1.8	0.21	ng/L		12/23/21 18:52	12/26/21 10:59	1
6:2 FTS	<2.2		4.5	2.2	ng/L		12/23/21 18:52	12/26/21 10:59	1
8:2 FTS	<0.41		1.8	0.41	ng/L		12/23/21 18:52	12/26/21 10:59	1
10:2 FTS	<0.60		1.8	0.60	ng/L		12/23/21 18:52	12/26/21 10:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		12/23/21 18:52	12/26/21 10:59	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		12/23/21 18:52	12/26/21 10:59	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		12/23/21 18:52	12/26/21 10:59	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		12/23/21 18:52	12/26/21 10:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*
13C5 PFPeA	*96*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*
13C2 PFHxA	*98*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*
13C4 PFHpA	*109*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*
13C4 PFOA	*117*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*
13C5 PFNA	*105*		*25 - 150*	*12/23/21 18:52*	*12/26/21 10:59*	*1*

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

Job ID: 320-83326-1

Client Sample ID: Entry Point - Line 1
Date Collected: 12/22/21 11:22
Date Received: 12/23/21 10:45

Lab Sample ID: 320-83326-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	104		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C2 PFUnA	104		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C2 PFDoA	92		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C2 PFTeDA	77		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C2 PFHxDA	81		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C3 PFBS	95		25 - 150	12/23/21 18:52	12/26/21 10:59	1
18O2 PFHxS	104		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C4 PFOS	109		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C8 FOSA	85		10 - 150	12/23/21 18:52	12/26/21 10:59	1
d3-NMeFOSAA	102		25 - 150	12/23/21 18:52	12/26/21 10:59	1
d5-NEtFOSAA	104		25 - 150	12/23/21 18:52	12/26/21 10:59	1
d-N-MeFOSA-M	84		10 - 150	12/23/21 18:52	12/26/21 10:59	1
d-N-EtFOSA-M	78		10 - 150	12/23/21 18:52	12/26/21 10:59	1
d7-N-MeFOSE-M	76		10 - 150	12/23/21 18:52	12/26/21 10:59	1
d9-N-EtFOSE-M	72		10 - 150	12/23/21 18:52	12/26/21 10:59	1
M2-4:2 FTS	124		25 - 150	12/23/21 18:52	12/26/21 10:59	1
M2-6:2 FTS	123		25 - 150	12/23/21 18:52	12/26/21 10:59	1
M2-8:2 FTS	125		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C3 HFPO-DA	90		25 - 150	12/23/21 18:52	12/26/21 10:59	1
13C2 10:2 FTS	108		25 - 150	12/23/21 18:52	12/26/21 10:59	1

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

Job ID: 320-83326-1

Client Sample ID: Entry Point - FB

Date Collected: 12/22/21 11:24
Date Received: 12/23/21 10:45

Lab Sample ID: 320-83326-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.81		1.8	0.81	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85		1.8	0.85	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorohexanesulfonic acid (PFHxS)	<0.52		1.8	0.52	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		12/23/21 18:52	12/26/21 11:09	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		12/23/21 18:52	12/26/21 11:09	1
NEtFOSA	<0.79		1.8	0.79	ng/L		12/23/21 18:52	12/26/21 11:09	1
NMeFOSA	<0.39		1.8	0.39	ng/L		12/23/21 18:52	12/26/21 11:09	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		12/23/21 18:52	12/26/21 11:09	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		12/23/21 18:52	12/26/21 11:09	1
NMeFOSE	<1.3		3.6	1.3	ng/L		12/23/21 18:52	12/26/21 11:09	1
NEtFOSE	<0.77		1.8	0.77	ng/L		12/23/21 18:52	12/26/21 11:09	1
4:2 FTS	<0.22		1.8	0.22	ng/L		12/23/21 18:52	12/26/21 11:09	1
6:2 FTS	<2.3		4.5	2.3	ng/L		12/23/21 18:52	12/26/21 11:09	1
8:2 FTS	<0.42		1.8	0.42	ng/L		12/23/21 18:52	12/26/21 11:09	1
10:2 FTS	<0.61		1.8	0.61	ng/L		12/23/21 18:52	12/26/21 11:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		12/23/21 18:52	12/26/21 11:09	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		12/23/21 18:52	12/26/21 11:09	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		12/23/21 18:52	12/26/21 11:09	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		12/23/21 18:52	12/26/21 11:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*102*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C5 PFPeA	*103*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C2 PFHxA	*104*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C4 PFHpA	*120*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C4 PFOA	*109*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C5 PFNA	*110*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C2 PFDA	*117*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*
13C2 PFUnA	*113*		*25 - 150*	*12/23/21 18:52*	*12/26/21 11:09*	*1*

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

Job ID: 320-83326-1

Client Sample ID: Entry Point - FB
Date Collected: 12/22/21 11:24
Date Received: 12/23/21 10:45

Lab Sample ID: 320-83326-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	103		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C2 PFTeDA	99		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C2 PFHxDA	88		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C3 PFBS	102		25 - 150	12/23/21 18:52	12/26/21 11:09	1
18O2 PFHxS	103		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C4 PFOS	116		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C8 FOSA	82		10 - 150	12/23/21 18:52	12/26/21 11:09	1
d3-NMeFOSAA	118		25 - 150	12/23/21 18:52	12/26/21 11:09	1
d5-NEtFOSAA	116		25 - 150	12/23/21 18:52	12/26/21 11:09	1
d-N-MeFOSA-M	87		10 - 150	12/23/21 18:52	12/26/21 11:09	1
d-N-EtFOSA-M	87		10 - 150	12/23/21 18:52	12/26/21 11:09	1
d7-N-MeFOSE-M	95		10 - 150	12/23/21 18:52	12/26/21 11:09	1
d9-N-EtFOSE-M	108		10 - 150	12/23/21 18:52	12/26/21 11:09	1
M2-4:2 FTS	113		25 - 150	12/23/21 18:52	12/26/21 11:09	1
M2-6:2 FTS	125		25 - 150	12/23/21 18:52	12/26/21 11:09	1
M2-8:2 FTS	141		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C3 HFPO-DA	103		25 - 150	12/23/21 18:52	12/26/21 11:09	1
13C2 10:2 FTS	142		25 - 150	12/23/21 18:52	12/26/21 11:09	1

Isotope Dilution Summary

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

Job ID: 320-83326-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-83326-1	Entry Point - Line 1	71	96	98	109	117	105	104	104
320-83326-2	Entry Point - FB	102	103	104	120	109	110	117	113
LCS 320-553735/2-A	Lab Control Sample	94	103	102	108	105	104	106	106
LCSD 320-553735/3-A	Lab Control Sample Dup	97	109	97	118	109	107	107	106
MB 320-553735/1-A	Method Blank	94	107	100	121	109	106	105	109

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	PFHxDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(10-150)	(25-150)
320-83326-1	Entry Point - Line 1	92	77	81	95	104	109	85	102
320-83326-2	Entry Point - FB	103	99	88	102	103	116	82	118
LCS 320-553735/2-A	Lab Control Sample	99	94	93	98	103	105	80	119
LCSD 320-553735/3-A	Lab Control Sample Dup	106	103	90	100	101	109	79	123
MB 320-553735/1-A	Method Blank	104	98	88	99	103	106	79	110

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS	dMeFOSA	dEtFOSA	NMFM	NEFM	M242FTS	M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(10-150)	(10-150)	(10-150)	(10-150)	(25-150)	(25-150)	(25-150)
320-83326-1	Entry Point - Line 1	104	84	78	76	72	124	123	125
320-83326-2	Entry Point - FB	116	87	87	95	108	113	125	141
LCS 320-553735/2-A	Lab Control Sample	115	99	89	107	110	117	124	136
LCSD 320-553735/3-A	Lab Control Sample Dup	124	89	85	106	104	124	113	130
MB 320-553735/1-A	Method Blank	122	91	86	105	102	121	121	132

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		HFPODA	M102FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
320-83326-1	Entry Point - Line 1	90	108
320-83326-2	Entry Point - FB	103	142
LCS 320-553735/2-A	Lab Control Sample	92	142
LCSD 320-553735/3-A	Lab Control Sample Dup	94	140
MB 320-553735/1-A	Method Blank	101	136

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M

Isotope Dilution Summary

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

Job ID: 320-83326-1

dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-553735/1-A
Matrix: Water
Analysis Batch: 553908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553735

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/23/21 18:52	12/26/21 18:16	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/23/21 18:52	12/26/21 18:16	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/23/21 18:52	12/26/21 18:16	1
NMeFOSA	<0.43		2.0	0.43	ng/L		12/23/21 18:52	12/26/21 18:16	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		12/23/21 18:52	12/26/21 18:16	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/23/21 18:52	12/26/21 18:16	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/23/21 18:52	12/26/21 18:16	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/23/21 18:52	12/26/21 18:16	1
4:2 FTS	<0.24		2.0	0.24	ng/L		12/23/21 18:52	12/26/21 18:16	1
6:2 FTS	<2.5		5.0	2.5	ng/L		12/23/21 18:52	12/26/21 18:16	1
8:2 FTS	<0.46		2.0	0.46	ng/L		12/23/21 18:52	12/26/21 18:16	1
10:2 FTS	<0.67		2.0	0.67	ng/L		12/23/21 18:52	12/26/21 18:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		12/23/21 18:52	12/26/21 18:16	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		12/23/21 18:52	12/26/21 18:16	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		12/23/21 18:52	12/26/21 18:16	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		12/23/21 18:52	12/26/21 18:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*
13C5 PFPeA	*107*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*
13C2 PFHxA	*100*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*
13C4 PFHpA	*121*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*
13C4 PFOA	*109*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*
13C5 PFNA	*106*		*25 - 150*	*12/23/21 18:52*	*12/26/21 18:16*	*1*

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

Lab Sample ID: MB 320-553735/1-A
Matrix: Water
Analysis Batch: 553908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553735

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C2 PFUnA	109		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C2 PFDoA	104		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C2 PFTeDA	98		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C2 PFHxDA	88		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C3 PFBS	99		25 - 150	12/23/21 18:52	12/26/21 18:16	1
18O2 PFHxS	103		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C4 PFOS	106		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C8 FOSA	79		10 - 150	12/23/21 18:52	12/26/21 18:16	1
d3-NMeFOSAA	110		25 - 150	12/23/21 18:52	12/26/21 18:16	1
d5-NEtFOSAA	122		25 - 150	12/23/21 18:52	12/26/21 18:16	1
d-N-MeFOSA-M	91		10 - 150	12/23/21 18:52	12/26/21 18:16	1
d-N-EtFOSA-M	86		10 - 150	12/23/21 18:52	12/26/21 18:16	1
d7-N-MeFOSE-M	105		10 - 150	12/23/21 18:52	12/26/21 18:16	1
d9-N-EtFOSE-M	102		10 - 150	12/23/21 18:52	12/26/21 18:16	1
M2-4:2 FTS	121		25 - 150	12/23/21 18:52	12/26/21 18:16	1
M2-6:2 FTS	121		25 - 150	12/23/21 18:52	12/26/21 18:16	1
M2-8:2 FTS	132		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C3 HFPO-DA	101		25 - 150	12/23/21 18:52	12/26/21 18:16	1
13C2 10:2 FTS	136		25 - 150	12/23/21 18:52	12/26/21 18:16	1

Lab Sample ID: LCS 320-553735/2-A
Matrix: Water
Analysis Batch: 553841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.1		ng/L		93	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	33.0		ng/L		82	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.5		ng/L		94	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	37.7		ng/L		94	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.9		ng/L		97	60 - 135
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		94	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	38.0		ng/L		95	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	37.3		ng/L		93	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.1		ng/L		98	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	37.0		ng/L		93	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.3		ng/L		91	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	35.7		ng/L		89	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	37.1		ng/L		93	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	29.9		ng/L		84	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	34.8		ng/L		93	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	31.7		ng/L		87	60 - 135

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

Lab Sample ID: LCS 320-553735/2-A
Matrix: Water
Analysis Batch: 553841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.0		ng/L		84	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.0		ng/L		92	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	36.4		ng/L		95	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.2		ng/L		94	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	31.3		ng/L		81	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	45.7		ng/L		114	60 - 135
NEtFOSA	40.0	34.4		ng/L		86	60 - 135
NMeFOSA	40.0	33.4		ng/L		83	60 - 135
NMeFOSAA	40.0	34.1		ng/L		85	60 - 135
NEtFOSAA	40.0	38.0		ng/L		95	60 - 135
NMeFOSE	40.0	35.4		ng/L		88	60 - 135
NEtFOSE	40.0	31.8		ng/L		80	60 - 135
4:2 FTS	37.4	33.5		ng/L		90	60 - 135
6:2 FTS	37.9	38.6		ng/L		102	60 - 135
8:2 FTS	38.3	31.1		ng/L		81	60 - 135
10:2 FTS	38.6	31.1		ng/L		81	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.9		ng/L		108	60 - 135
HFPO-DA (GenX)	40.0	32.7		ng/L		82	60 - 135
9Cl-PF3ONS	37.3	34.0		ng/L		91	60 - 135
11Cl-PF3OUdS	37.7	35.1		ng/L		93	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*94*		*25 - 150*
13C5 PFPeA	*103*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*108*		*25 - 150*
13C4 PFOA	*105*		*25 - 150*
13C5 PFNA	*104*		*25 - 150*
13C2 PFDA	*106*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*99*		*25 - 150*
13C2 PFTeDA	*94*		*25 - 150*
13C2 PFHxDA	*93*		*25 - 150*
13C3 PFBS	*98*		*25 - 150*
18O2 PFHxS	*103*		*25 - 150*
13C4 PFOS	*105*		*25 - 150*
13C8 FOSA	*80*		*10 - 150*
d3-NMeFOSAA	*119*		*25 - 150*
d5-NEtFOSAA	*115*		*25 - 150*
d-N-MeFOSA-M	*99*		*10 - 150*
d-N-EtFOSA-M	*89*		*10 - 150*
d7-N-MeFOSE-M	*107*		*10 - 150*
d9-N-EtFOSE-M	*110*		*10 - 150*

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

Lab Sample ID: LCS 320-553735/2-A
Matrix: Water
Analysis Batch: 553841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553735

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*117*		*25 - 150*
M2-6:2 FTS	*124*		*25 - 150*
M2-8:2 FTS	*136*		*25 - 150*
13C3 HFPO-DA	*92*		*25 - 150*
13C2 10:2 FTS	*142*		*25 - 150*

Lab Sample ID: LCSD 320-553735/3-A
Matrix: Water
Analysis Batch: 553841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 553735

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	38.1		ng/L		95	60 - 135	3	30
Perfluoropentanoic acid (PFPeA)			40.0	33.3		ng/L		83	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)			40.0	38.6		ng/L		97	60 - 135	3	30
Perfluoroheptanoic acid (PFHpA)			40.0	35.0		ng/L		88	60 - 135	7	30
Perfluorooctanoic acid (PFOA)			40.0	37.6		ng/L		94	60 - 135	3	30
Perfluorononanoic acid (PFNA)			40.0	39.5		ng/L		99	60 - 135	4	30
Perfluorodecanoic acid (PFDA)			40.0	35.5		ng/L		89	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)			40.0	37.5		ng/L		94	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)			40.0	35.8		ng/L		89	60 - 135	9	30
Perfluorotridecanoic acid (PFTrDA)			40.0	36.7		ng/L		92	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)			40.0	35.3		ng/L		88	60 - 135	3	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	38.1		ng/L		95	60 - 135	7	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	34.4		ng/L		86	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)			35.4	29.8		ng/L		84	60 - 135	0	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	35.4		ng/L		94	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.5		ng/L		89	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	32.3		ng/L		85	60 - 135	1	30
Perfluorooctanesulfonic acid (PFOS)			37.1	32.3		ng/L		87	60 - 135	5	30
Perfluorononanesulfonic acid (PFNS)			38.4	33.3		ng/L		87	60 - 135	9	30
Perfluorodecanesulfonic acid (PFDS)			38.6	37.5		ng/L		97	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	30.1		ng/L		78	60 - 135	4	30
Perfluorooctanesulfonamide (FOSA)			40.0	43.2		ng/L		108	60 - 135	6	30
NEtFOSA			40.0	39.8		ng/L		99	60 - 135	14	30
NMeFOSA			40.0	38.3		ng/L		96	60 - 135	14	30
NMeFOSAA			40.0	33.0		ng/L		83	60 - 135	3	30
NEtFOSAA			40.0	36.6		ng/L		92	60 - 135	4	30
NMeFOSE			40.0	32.9		ng/L		82	60 - 135	7	30

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

Lab Sample ID: LCSD 320-553735/3-A
Matrix: Water
Analysis Batch: 553841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 553735

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE			40.0	34.2		ng/L		85	60 - 135	7	30
4:2 FTS			37.4	33.2		ng/L		89	60 - 135	1	30
6:2 FTS			37.9	39.4		ng/L		104	60 - 135	2	30
8:2 FTS			38.3	31.4		ng/L		82	60 - 135	1	30
10:2 FTS			38.6	34.6		ng/L		90	60 - 135	11	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	36.6		ng/L		97	60 - 135	11	30
HFPO-DA (GenX)			40.0	34.1		ng/L		85	60 - 135	4	30
9Cl-PF3ONS			37.3	33.5		ng/L		90	60 - 135	2	30
11Cl-PF3OUdS			37.7	35.7		ng/L		95	60 - 135	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*97*		*25 - 150*
13C5 PFPeA	*109*		*25 - 150*
13C2 PFHxA	*97*		*25 - 150*
13C4 PFHpA	*118*		*25 - 150*
13C4 PFOA	*109*		*25 - 150*
13C5 PFNA	*107*		*25 - 150*
13C2 PFDA	*107*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*106*		*25 - 150*
13C2 PFTeDA	*103*		*25 - 150*
13C2 PFHxDA	*90*		*25 - 150*
13C3 PFBS	*100*		*25 - 150*
18O2 PFHxS	*101*		*25 - 150*
13C4 PFOS	*109*		*25 - 150*
13C8 FOSA	*79*		*10 - 150*
d3-NMeFOSAA	*123*		*25 - 150*
d5-NEtFOSAA	*124*		*25 - 150*
d-N-MeFOSA-M	*89*		*10 - 150*
d-N-EtFOSA-M	*85*		*10 - 150*
d7-N-MeFOSE-M	*106*		*10 - 150*
d9-N-EtFOSE-M	*104*		*10 - 150*
M2-4:2 FTS	*124*		*25 - 150*
M2-6:2 FTS	*113*		*25 - 150*
M2-8:2 FTS	*130*		*25 - 150*
13C3 HFPO-DA	*94*		*25 - 150*
13C2 10:2 FTS	*140*		*25 - 150*

QC Association Summary

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

Job ID: 320-83326-1

LCMS

Prep Batch: 553735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83326-1	Entry Point - Line 1	Total/NA	Water	3535	
320-83326-2	Entry Point - FB	Total/NA	Water	3535	
MB 320-553735/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-553735/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-553735/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 553841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83326-1	Entry Point - Line 1	Total/NA	Water	537 (modified)	553735
320-83326-2	Entry Point - FB	Total/NA	Water	537 (modified)	553735
LCS 320-553735/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	553735
LCSD 320-553735/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	553735

Analysis Batch: 553908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-553735/1-A	Method Blank	Total/NA	Water	537 (modified)	553735

Lab Chronicle

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

Job ID: 320-83326-1

Client Sample ID: Entry Point - Line 1

Lab Sample ID: 320-83326-1

Date Collected: 12/22/21 11:22

Matrix: Water

Date Received: 12/23/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.3 mL	10.0 mL	553735	12/23/21 18:52	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			553841	12/26/21 10:59	VPM	TAL SAC

Client Sample ID: Entry Point - FB

Lab Sample ID: 320-83326-2

Date Collected: 12/22/21 11:24

Matrix: Water

Date Received: 12/23/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.3 mL	10.0 mL	553735	12/23/21 18:52	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1			553841	12/26/21 11:09	VPM	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: 320-83326-1

Laboratory: Eurofins TestAmerica, Sacramento

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

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

Method Summary

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

Job ID: 320-83326-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

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

Job ID: 320-83326-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83326-1	Entry Point - Line 1	Water	12/22/21 11:22	12/23/21 10:45
320-83326-2	Entry Point - FB	Water	12/22/21 11:24	12/23/21 10:45

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Ty Fadness	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 320-46166-10094.1
Client Contact: Ty Fadness	Phone: 715-839-6121	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: City of Eau Claire	PWSID:			Job #:
Address: 203 S Farwell	Due Date Requested: 12/24/21			
City: Eau Claire	TAT Requested (days): 1-Day TAT			
State, Zip: WI, 54701	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 50210879-00			
Email: Tyler.Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 32012617			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (36 Analytes)	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N		
Entry Point - Line 1	12/22/21	1122	G	Water			X		
~~WW Outfall~~ Entry Point-FB TF	12/22/21	1124	G	Water			X		
				Water					
				Water					
				Water					
				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

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)

Other:

320-83326 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 12/22/21 1300	Company: City of EC	Received by: [signature]	Date/Time: 12/23/21 - 1045	Company: EETSA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-83326-1

Login Number: 83326
List Number: 1
Creator: Maldonado, Letzi A

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1802135
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	