

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

PFAS, Corpus Christi Texas Bay

JOB NUMBER

320-117127-1

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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Glossary

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

Case Narrative

Client: West Texas A&M University
Project: PFAS, Corpus Christi Texas Bay

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Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/19/2024 9:25 AM and 11/20/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.5°C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Cla s, Clb s, Clc s (320-117127-1), Cld, Cle d, Clf d (320-117127-2), Clg DW, Clh DW, Cli DW (320-117127-3), Eld d, Ele d, Elf d (320-117127-4), E-la s, Elb s, Elc s (320-117127-5), Wla s, Wlb s, Wlc s (320-117127-6), Wld d, Wle d, Wlf d (320-117127-7), Fwla s, Fwlb s, Fwlc s (320-117127-8) and Fwld d, Fw1e d, Fw1f d (320-117127-9). The sample container labels were missing collection dates and times. The samples were logged in and labeled per the COC.

One of the two sample coolers was delayed by FedEx. The following samples were received on 11/20/2024: Eld d, Ele d, Elf d (320-117127-4), Wla s, Wlb s, Wlc s (320-117127-6), Fwla s, Fwlb s, Fwlc s (320-117127-8) and Fwld d, Fw1e d, Fw1f d (320-117127-9). The samples were within temperature and holding time parameters.

PFAS

Method 1633_Final: The low level continuing calibration verification (CCVL) associated with batch 320-817414 recovered above the upper control limit for Nonafluoro-3,6-dioxahexanoic acid (NFDHA). The samples and method blank (MB) associated with this CCVL were non-detect and the low level laboratory control sample, laboratory control sample, and laboratory control sample duplicate (LLCS/LCS/LCSD) were within control for the affected analyte; therefore, the data have been reported. Fwld d, Fw1e d, Fw1f d (320-117127-9) and (CCVL 320-817414/3)

Method 1633_Final: The reference method requires samples to have a pH of 6.0-7.0. The following samples were received with a pH of 8.0: Cla s, Clb s, Clc s (320-117127-1), Cld, Cle d, Clf d (320-117127-2), Eld d, Ele d, Elf d (320-117127-4), E-la s, Elb s, Elc s (320-117127-5), Wla s, Wlb s, Wlc s (320-117127-6), Wld d, Wle d, Wlf d (320-117127-7) and Fwla s, Fwlb s, Fwlc s (320-117127-8). The samples were adjusted to the appropriate pH in the laboratory.

Method 1633_Final: The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: E-la s, Elb s, Elc s (320-117127-5), Wla s, Wlb s, Wlc s (320-117127-6) and Wld d, Wle d, Wlf d (320-117127-7). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 1633_Final: The low level continuing calibration verification (CCVL) associated with batch 320-818549 recovered above the upper control limit for 11CI-PF3OUdS. The samples and method blank associated with this CCV were non-detects and the LLCS/LCS/LCSD were within control for the affected analytes; therefore, the data have been reported. Cla s, Clb s, Clc s (320-117127-1), Cld, Cle d, Clf d (320-117127-2), Eld d, Ele d, Elf d (320-117127-4), E-la s, Elb s, Elc s (320-117127-5), Wla s, Wlb s, Wlc s (320-117127-6), Wld d, Wle d, Wlf d (320-117127-7), Fwla s, Fwlb s, Fwlc s (320-117127-8), (CCVL 320-818549/2), (LCS 320-817915/3-A), (LCSD 320-817915/4-A), (LLCS 320-817915/2-A) and (MB 320-817915/1-A).

Method 1633_Final: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: due to an analyst error, the continuing calibration blank (CCB) was analyzed prior to the continuing calibration verification (CCV). There is no adverse impact to the data; therefore the data have been reported. Cla s, Clb s, Clc s (320-117127-1), Cld, Cle d, Clf d (320-117127-2), Eld d, Ele d, Elf d (320-117127-4), E-la s, Elb s, Elc s (320-117127-5), Wla s, Wlb s, Wlc s (320-117127-6), Wld d, Wle d, Wlf d (320-117127-7), Fwla s, Fwlb s, Fwlc s (320-117127-8), (CCB 320-818549/16), (CCB 320-818549/28), (CCB 320-818549/3), (CCV 320-818549/1), (CCV 320-818549/17), (CCV 320-818549/29), (CCV 320-818549/4), (CCVL 320-818549/2), (LCS 320-817915/3-A), (LCSD 320-817915/4-A), (LLCS 320-817915/2-A), (MB 320-817915/1-A) and (WDM 320-818549/9)

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Case Narrative

Client: West Texas A&M University
Project: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Job ID: 320-117127-1 (Continued)

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

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Detection Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cla s, Clb s, Clc s

Lab Sample ID: 320-117127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.2		1.6		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		1.6		ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.6		1.6		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.6		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.6		ng/L	1		1633	Total/NA

Client Sample ID: Cld, Cle d, Clf d

Lab Sample ID: 320-117127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.1		1.6		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.6		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.6		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.6		ng/L	1		1633	Total/NA

Client Sample ID: Eld d, Ele d, Elf d

Lab Sample ID: 320-117127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.6		1.6		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.6		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		1.6		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.6		ng/L	1		1633	Total/NA

Client Sample ID: E-la s, Elb s, Elc s

Lab Sample ID: 320-117127-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.0		1.5		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.5		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.5		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		1.5		ng/L	1		1633	Total/NA

Client Sample ID: Wla s, WIB s, Wlc s

Lab Sample ID: 320-117127-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.1		1.5		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.4		1.5		ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.5		1.5		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.5		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.5		ng/L	1		1633	Total/NA

Client Sample ID: Wld d, Wle d, Wlf d

Lab Sample ID: 320-117127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	2.3		1.5		ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.5		1.5		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.5		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.5		ng/L	1		1633	Total/NA

Client Sample ID: Fwla s, Fwlb s, Fwlc s

Lab Sample ID: 320-117127-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.0		3.0		ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		1.5		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.5		ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.7		1.5		ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Fwla s, Fwlb s, Fwlc s (Continued)

Lab Sample ID: 320-117127-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.5		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.5		1.5		ng/L	1		1633	Total/NA

Client Sample ID: Fwld d, Fw1e d, Fw-lf d

Lab Sample ID: 320-117127-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3.2		1.6		ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.6		ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.6		ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2		1.6		ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cla s, Clb s, Clc s

Lab Sample ID: 320-117127-1

Date Collected: 11/18/24 09:20

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluoropentanoic acid (PFPeA)	2.2		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorohexanoic acid (PFHxA)	2.3		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorooctanoic acid (PFOA)	1.6		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorononanoic acid (PFNA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorodecanoic acid (PFDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
4:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:06	1
6:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NMeFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NEtFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NMeFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NEtFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NMeFOSE	ND		7.9		ng/L		11/26/24 08:36	11/30/24 14:06	1
NEtFOSE	ND		7.9		ng/L		11/26/24 08:36	11/30/24 14:06	1
HFPO-DA (GenX)	ND		1.2		ng/L		11/26/24 08:36	11/30/24 14:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
PFMPA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
PFMBA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
NFDHA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
9CI-PF3ONS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
11CI-PF3OUdS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
PFEESA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:06	1
3:3 FTCA	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:06	1
5:3 FTCA	ND		7.9		ng/L		11/26/24 08:36	11/30/24 14:06	1
7:3 FTCA	ND		7.9		ng/L		11/26/24 08:36	11/30/24 14:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95.1		5 - 130				11/26/24 08:36	11/30/24 14:06	1
13C5 PFPeA	92.4		40 - 130				11/26/24 08:36	11/30/24 14:06	1
13C5 PFHxA	94.3		40 - 130				11/26/24 08:36	11/30/24 14:06	1
13C4 PFHpA	97.7		40 - 130				11/26/24 08:36	11/30/24 14:06	1
13C8 PFOA	94.3		40 - 130				11/26/24 08:36	11/30/24 14:06	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cla s, Clb s, Clc s

Lab Sample ID: 320-117127-1

Date Collected: 11/18/24 09:20

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	88.7		40 - 130	11/26/24 08:36	11/30/24 14:06	1
13C6 PFDA	90.7		40 - 130	11/26/24 08:36	11/30/24 14:06	1
13C7 PFUnA	90.6		30 - 130	11/26/24 08:36	11/30/24 14:06	1
13C2 PFDoA	76.1		10 - 130	11/26/24 08:36	11/30/24 14:06	1
13C2 PFTeDA	65.1		10 - 130	11/26/24 08:36	11/30/24 14:06	1
13C3 PFBS	110		40 - 135	11/26/24 08:36	11/30/24 14:06	1
13C3 PFHxS	94.0		40 - 130	11/26/24 08:36	11/30/24 14:06	1
13C8 PFOS	93.3		40 - 130	11/26/24 08:36	11/30/24 14:06	1
13C8 FOSA	79.1		40 - 130	11/26/24 08:36	11/30/24 14:06	1
d3-NMeFOSAA	64.4		40 - 170	11/26/24 08:36	11/30/24 14:06	1
d5-NEtFOSAA	59.9		25 - 135	11/26/24 08:36	11/30/24 14:06	1
13C2 4:2 FTS	52.4		40 - 200	11/26/24 08:36	11/30/24 14:06	1
13C2 6:2 FTS	52.3		40 - 200	11/26/24 08:36	11/30/24 14:06	1
13C3 HFPO-DA	79.7		40 - 130	11/26/24 08:36	11/30/24 14:06	1
d7-N-MeFOSE-M	72.3		10 - 130	11/26/24 08:36	11/30/24 14:06	1
d9-N-EtFOSE-M	70.9		10 - 130	11/26/24 08:36	11/30/24 14:06	1
d5-NEtPFOSA	72.2		10 - 130	11/26/24 08:36	11/30/24 14:06	1
d3-NMePFOSA	73.9		10 - 130	11/26/24 08:36	11/30/24 14:06	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.1		ng/L		11/26/24 08:36	12/05/24 01:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	73.2		40 - 300				11/26/24 08:36	12/05/24 01:44	1

Client Sample ID: CId, Cle d, Clf d

Lab Sample ID: 320-117127-2

Date Collected: 11/18/24 09:25

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluoropentanoic acid (PFPeA)	2.1		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorohexanoic acid (PFHxA)	2.1		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorooctanoic acid (PFOA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorononanoic acid (PFNA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorodecanoic acid (PFDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorododecanoic acid (PFDoA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1

Eurofins Sacramento

Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cld, Cle d, Clf d

Lab Sample ID: 320-117127-2

Date Collected: 11/18/24 09:25

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
4:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:19	1
6:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:19	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NMeFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NEtFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NMeFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NEtFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NMeFOSE	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:19	1
NEtFOSE	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:19	1
HFPO-DA (GenX)	ND		1.2		ng/L		11/26/24 08:36	11/30/24 14:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
PFMPA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
PFMBA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
NFDHA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
9CI-PF3ONS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
11CI-PF3OUdS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
PFEESA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:19	1
3:3 FTCA	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:19	1
5:3 FTCA	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:19	1
7:3 FTCA	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95.4		5 - 130	11/26/24 08:36	11/30/24 14:19	1
13C5 PFPeA	96.2		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C5 PFHxA	95.4		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C4 PFHpA	94.4		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C8 PFOA	101		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C9 PFNA	88.5		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C6 PFDA	88.0		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C7 PFUnA	82.6		30 - 130	11/26/24 08:36	11/30/24 14:19	1
13C2 PFDoA	74.5		10 - 130	11/26/24 08:36	11/30/24 14:19	1
13C2 PFTeDA	61.3		10 - 130	11/26/24 08:36	11/30/24 14:19	1
13C3 PFBS	111		40 - 135	11/26/24 08:36	11/30/24 14:19	1
13C3 PFHxS	91.4		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C8 PFOS	87.0		40 - 130	11/26/24 08:36	11/30/24 14:19	1
13C8 FOSA	76.3		40 - 130	11/26/24 08:36	11/30/24 14:19	1
d3-NMeFOSAA	56.7		40 - 170	11/26/24 08:36	11/30/24 14:19	1
d5-NEtFOSAA	55.3		25 - 135	11/26/24 08:36	11/30/24 14:19	1
13C2 4:2 FTS	50.3		40 - 200	11/26/24 08:36	11/30/24 14:19	1
13C2 6:2 FTS	50.5		40 - 200	11/26/24 08:36	11/30/24 14:19	1
13C3 HFPO-DA	77.0		40 - 130	11/26/24 08:36	11/30/24 14:19	1
d7-N-MeFOSE-M	66.0		10 - 130	11/26/24 08:36	11/30/24 14:19	1
d9-N-EtFOSE-M	64.8		10 - 130	11/26/24 08:36	11/30/24 14:19	1
d5-NEtPFOSA	63.7		10 - 130	11/26/24 08:36	11/30/24 14:19	1
d3-NMePFOSA	64.7		10 - 130	11/26/24 08:36	11/30/24 14:19	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cld, Cle d, Clf d

Lab Sample ID: 320-117127-2

Date Collected: 11/18/24 09:25

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.1		ng/L		11/26/24 08:36	12/05/24 02:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	60.4		40 - 300				11/26/24 08:36	12/05/24 02:01	1

Client Sample ID: Eld d, Ele d, Elf d

Lab Sample ID: 320-117127-4

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluoropentanoic acid (PFPeA)	2.6		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorohexanoic acid (PFHxA)	2.6		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorooctanoic acid (PFOA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorononanoic acid (PFNA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorodecanoic acid (PFDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorododecanoic acid (PFDoA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorooctanesulfonic acid (PFOS)	2.8		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
4:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:32	1
6:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:32	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NMeFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NEtFOSA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NMeFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NEtFOSAA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NMeFOSE	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:32	1
NEtFOSE	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:32	1
HFPO-DA (GenX)	ND		1.2		ng/L		11/26/24 08:36	11/30/24 14:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
PFMPA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
PFMBA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
NFDHA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
9CI-PF3ONS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
11CI-PF3OUdS	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Eld d, Ele d, Elf d

Lab Sample ID: 320-117127-4

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFEESA	ND		1.6		ng/L		11/26/24 08:36	11/30/24 14:32	1
3:3 FTCA	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:32	1
5:3 FTCA	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:32	1
7:3 FTCA	ND		7.8		ng/L		11/26/24 08:36	11/30/24 14:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94.9		5 - 130				11/26/24 08:36	11/30/24 14:32	1
13C5 PFPeA	93.6		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C5 PFHxA	93.0		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C4 PFHpA	93.6		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C8 PFOA	100		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C9 PFNA	91.4		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C6 PFDA	92.7		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C7 PFUnA	87.9		30 - 130				11/26/24 08:36	11/30/24 14:32	1
13C2 PFDoA	82.0		10 - 130				11/26/24 08:36	11/30/24 14:32	1
13C2 PFTeDA	70.5		10 - 130				11/26/24 08:36	11/30/24 14:32	1
13C3 PFBS	102		40 - 135				11/26/24 08:36	11/30/24 14:32	1
13C3 PFHxS	92.6		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C8 PFOS	97.1		40 - 130				11/26/24 08:36	11/30/24 14:32	1
13C8 FOSA	82.6		40 - 130				11/26/24 08:36	11/30/24 14:32	1
d3-NMeFOSAA	62.7		40 - 170				11/26/24 08:36	11/30/24 14:32	1
d5-NEtFOSAA	58.9		25 - 135				11/26/24 08:36	11/30/24 14:32	1
13C2 4:2 FTS	44.4		40 - 200				11/26/24 08:36	11/30/24 14:32	1
13C2 6:2 FTS	45.1		40 - 200				11/26/24 08:36	11/30/24 14:32	1
13C3 HFPO-DA	90.8		40 - 130				11/26/24 08:36	11/30/24 14:32	1
d7-N-MeFOSE-M	78.2		10 - 130				11/26/24 08:36	11/30/24 14:32	1
d9-N-EtFOSE-M	77.1		10 - 130				11/26/24 08:36	11/30/24 14:32	1
d5-NEtPFOSA	77.9		10 - 130				11/26/24 08:36	11/30/24 14:32	1
d3-NMePFOSA	78.2		10 - 130				11/26/24 08:36	11/30/24 14:32	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.1		ng/L		11/26/24 08:36	12/05/24 02:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	62.5		40 - 300				11/26/24 08:36	12/05/24 02:17	1

Client Sample ID: E-la s, Elb s, Elc s

Lab Sample ID: 320-117127-5

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluoropentanoic acid (PFPeA)	2.0		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorohexanoic acid (PFHxA)	2.0		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorooctanoic acid (PFOA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorononanoic acid (PFNA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorodecanoic acid (PFDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorododecanoic acid (PFDoA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: E-Ia s, Elb s, Elc s

Lab Sample ID: 320-117127-5

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorooctanesulfonic acid (PFOS)	2.4		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
4:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:45	1
6:2 FTS	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NMeFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NEtFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NMeFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NEtFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NMeFOSE	ND		7.7		ng/L		11/26/24 08:36	11/30/24 14:45	1
NEtFOSE	ND		7.7		ng/L		11/26/24 08:36	11/30/24 14:45	1
HFPO-DA (GenX)	ND		1.1		ng/L		11/26/24 08:36	11/30/24 14:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
PFMPA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
PFMBA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
NFDHA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
9CI-PF3ONS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
11CI-PF3OUdS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
PFEESA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:45	1
3:3 FTCA	ND		3.1		ng/L		11/26/24 08:36	11/30/24 14:45	1
5:3 FTCA	ND		7.7		ng/L		11/26/24 08:36	11/30/24 14:45	1
7:3 FTCA	ND		7.7		ng/L		11/26/24 08:36	11/30/24 14:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94.6		5 - 130	11/26/24 08:36	11/30/24 14:45	1
13C5 PFPeA	91.6		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C5 PFHxA	92.8		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C4 PFHpA	91.7		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C8 PFOA	99.7		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C9 PFNA	97.0		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C6 PFDA	91.7		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C7 PFUnA	86.8		30 - 130	11/26/24 08:36	11/30/24 14:45	1
13C2 PFDoA	74.2		10 - 130	11/26/24 08:36	11/30/24 14:45	1
13C2 PFTeDA	66.9		10 - 130	11/26/24 08:36	11/30/24 14:45	1
13C3 PFBS	106		40 - 135	11/26/24 08:36	11/30/24 14:45	1
13C3 PFHxS	92.5		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C8 PFOS	95.3		40 - 130	11/26/24 08:36	11/30/24 14:45	1
13C8 FOSA	80.9		40 - 130	11/26/24 08:36	11/30/24 14:45	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: E-Ia s, Elb s, Elc s

Lab Sample ID: 320-117127-5

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	58.7		40 - 170	11/26/24 08:36	11/30/24 14:45	1
d5-NEtFOSAA	56.8		25 - 135	11/26/24 08:36	11/30/24 14:45	1
13C2 4:2 FTS	50.7		40 - 200	11/26/24 08:36	11/30/24 14:45	1
13C2 6:2 FTS	40.7		40 - 200	11/26/24 08:36	11/30/24 14:45	1
13C3 HFPO-DA	87.9		40 - 130	11/26/24 08:36	11/30/24 14:45	1
d7-N-MeFOSE-M	77.5		10 - 130	11/26/24 08:36	11/30/24 14:45	1
d9-N-EtFOSE-M	73.3		10 - 130	11/26/24 08:36	11/30/24 14:45	1
d5-NEtPFOSA	73.9		10 - 130	11/26/24 08:36	11/30/24 14:45	1
d3-NMePFOSA	74.5		10 - 130	11/26/24 08:36	11/30/24 14:45	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.1		ng/L		11/26/24 08:36	12/05/24 02:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	63.5		40 - 300				11/26/24 08:36	12/05/24 02:34	1

Client Sample ID: Wla s, WIB s, Wlc s

Lab Sample ID: 320-117127-6

Date Collected: 11/18/24 10:00

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluoropentanoic acid (PFPeA)	2.1		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorohexanoic acid (PFHxA)	2.4		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorooctanoic acid (PFOA)	1.5		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorononanoic acid (PFNA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorodecanoic acid (PFDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
4:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 14:58	1
6:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 14:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NMeFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NEtFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Wla s, WIB s, Wlc s

Lab Sample ID: 320-117127-6

Date Collected: 11/18/24 10:00

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NEtFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NMeFOSE	ND		7.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NEtFOSE	ND		7.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
HFPO-DA (GenX)	ND		1.1		ng/L		11/26/24 08:36	11/30/24 14:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
PFMPA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
PFMBA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
NFDHA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
9CI-PF3ONS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
11CI-PF3OUdS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
PFEESA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
3:3 FTCA	ND		3.0		ng/L		11/26/24 08:36	11/30/24 14:58	1
5:3 FTCA	ND		7.5		ng/L		11/26/24 08:36	11/30/24 14:58	1
7:3 FTCA	ND		7.5		ng/L		11/26/24 08:36	11/30/24 14:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93.1		5 - 130	11/26/24 08:36	11/30/24 14:58	1
13C5 PFPeA	97.8		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C5 PFHxA	88.2		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C4 PFHpA	90.5		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C8 PFOA	95.9		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C9 PFNA	91.2		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C6 PFDA	94.4		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C7 PFUnA	87.7		30 - 130	11/26/24 08:36	11/30/24 14:58	1
13C2 PFDoA	79.6		10 - 130	11/26/24 08:36	11/30/24 14:58	1
13C2 PFTeDA	69.4		10 - 130	11/26/24 08:36	11/30/24 14:58	1
13C3 PFBS	106		40 - 135	11/26/24 08:36	11/30/24 14:58	1
13C3 PFHxS	93.7		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C8 PFOS	95.7		40 - 130	11/26/24 08:36	11/30/24 14:58	1
13C8 FOSA	81.7		40 - 130	11/26/24 08:36	11/30/24 14:58	1
d3-NMeFOSAA	58.2		40 - 170	11/26/24 08:36	11/30/24 14:58	1
d5-NEtFOSAA	56.7		25 - 135	11/26/24 08:36	11/30/24 14:58	1
13C2 4:2 FTS	47.3		40 - 200	11/26/24 08:36	11/30/24 14:58	1
13C2 6:2 FTS	40.5		40 - 200	11/26/24 08:36	11/30/24 14:58	1
13C3 HFPO-DA	84.1		40 - 130	11/26/24 08:36	11/30/24 14:58	1
d7-N-MeFOSE-M	78.5		10 - 130	11/26/24 08:36	11/30/24 14:58	1
d9-N-EtFOSE-M	76.7		10 - 130	11/26/24 08:36	11/30/24 14:58	1
d5-NEtPFOSA	78.0		10 - 130	11/26/24 08:36	11/30/24 14:58	1
d3-NMePFOSA	77.8		10 - 130	11/26/24 08:36	11/30/24 14:58	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.0		ng/L		11/26/24 08:36	12/05/24 02:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	64.4		40 - 300				11/26/24 08:36	12/05/24 02:50	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Wld d, Wle d, WIF d

Lab Sample ID: 320-117127-7

Date Collected: 11/18/24 10:10

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluoropentanoic acid (PFPeA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorohexanoic acid (PFHxA)	2.3		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorooctanoic acid (PFOA)	1.5		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorononanoic acid (PFNA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorodecanoic acid (PFDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorooctanesulfonic acid (PFOS)	2.9		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
4:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:11	1
6:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NMeFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NEtFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NMeFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NEtFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NMeFOSE	ND		7.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NEtFOSE	ND		7.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
HFPO-DA (GenX)	ND		1.1		ng/L		11/26/24 08:36	11/30/24 15:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
PFMPA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
PFMBA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
NFDHA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
9CI-PF3ONS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
11CI-PF3OUdS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
PFEESA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
3:3 FTCA	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:11	1
5:3 FTCA	ND		7.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
7:3 FTCA	ND		7.5		ng/L		11/26/24 08:36	11/30/24 15:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93.3		5 - 130				11/26/24 08:36	11/30/24 15:11	1
13C5 PFPeA	90.8		40 - 130				11/26/24 08:36	11/30/24 15:11	1
13C5 PFHxA	91.0		40 - 130				11/26/24 08:36	11/30/24 15:11	1
13C4 PFHpA	89.9		40 - 130				11/26/24 08:36	11/30/24 15:11	1
13C8 PFOA	102		40 - 130				11/26/24 08:36	11/30/24 15:11	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Wld d, Wle d, WIF d

Lab Sample ID: 320-117127-7

Date Collected: 11/18/24 10:10

Matrix: Water

Date Received: 11/19/24 09:25

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	95.1		40 - 130	11/26/24 08:36	11/30/24 15:11	1
13C6 PFDA	94.6		40 - 130	11/26/24 08:36	11/30/24 15:11	1
13C7 PFUnA	93.7		30 - 130	11/26/24 08:36	11/30/24 15:11	1
13C2 PFDoA	77.4		10 - 130	11/26/24 08:36	11/30/24 15:11	1
13C2 PFTeDA	70.6		10 - 130	11/26/24 08:36	11/30/24 15:11	1
13C3 PFBS	122		40 - 135	11/26/24 08:36	11/30/24 15:11	1
13C3 PFHxS	94.6		40 - 130	11/26/24 08:36	11/30/24 15:11	1
13C8 PFOS	94.2		40 - 130	11/26/24 08:36	11/30/24 15:11	1
13C8 FOSA	79.6		40 - 130	11/26/24 08:36	11/30/24 15:11	1
d3-NMeFOSAA	55.9		40 - 170	11/26/24 08:36	11/30/24 15:11	1
d5-NEtFOSAA	56.0		25 - 135	11/26/24 08:36	11/30/24 15:11	1
13C2 4:2 FTS	51.8		40 - 200	11/26/24 08:36	11/30/24 15:11	1
13C2 6:2 FTS	46.4		40 - 200	11/26/24 08:36	11/30/24 15:11	1
13C3 HFPO-DA	84.4		40 - 130	11/26/24 08:36	11/30/24 15:11	1
d7-N-MeFOSE-M	75.1		10 - 130	11/26/24 08:36	11/30/24 15:11	1
d9-N-EtFOSE-M	74.3		10 - 130	11/26/24 08:36	11/30/24 15:11	1
d5-NEtPFOSA	76.2		10 - 130	11/26/24 08:36	11/30/24 15:11	1
d3-NMePFOSA	75.2		10 - 130	11/26/24 08:36	11/30/24 15:11	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.0		ng/L		11/26/24 08:36	12/05/24 03:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	61.6		40 - 300				11/26/24 08:36	12/05/24 03:06	1

Client Sample ID: Fwla s, Fwlb s, Fwlc s

Lab Sample ID: 320-117127-8

Date Collected: 11/18/24 10:15

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.0		3.0		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluoropentanoic acid (PFPeA)	2.5		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorohexanoic acid (PFHxA)	2.2		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorooctanoic acid (PFOA)	1.7		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorononanoic acid (PFNA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorodecanoic acid (PFDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorooctanesulfonic acid (PFOS)	5.5		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Fwla s, Fwlb s, Fwlc s

Lab Sample ID: 320-117127-8

Date Collected: 11/18/24 10:15

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
4:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:50	1
6:2 FTS	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NMeFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NEtFOSA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NMeFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NEtFOSAA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NMeFOSE	ND		7.4		ng/L		11/26/24 08:36	11/30/24 15:50	1
NEtFOSE	ND		7.4		ng/L		11/26/24 08:36	11/30/24 15:50	1
HFPO-DA (GenX)	ND		1.1		ng/L		11/26/24 08:36	11/30/24 15:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
PFMPA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
PFMBA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
NFDHA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
9CI-PF3ONS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
11CI-PF3OUdS	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
PFEESA	ND		1.5		ng/L		11/26/24 08:36	11/30/24 15:50	1
3:3 FTCA	ND		3.0		ng/L		11/26/24 08:36	11/30/24 15:50	1
5:3 FTCA	ND		7.4		ng/L		11/26/24 08:36	11/30/24 15:50	1
7:3 FTCA	ND		7.4		ng/L		11/26/24 08:36	11/30/24 15:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93.6		5 - 130	11/26/24 08:36	11/30/24 15:50	1
13C5 PFPeA	89.8		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C5 PFHxA	93.7		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C4 PFHpA	91.3		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C8 PFOA	90.8		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C9 PFNA	85.6		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C6 PFDA	91.4		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C7 PFUnA	87.9		30 - 130	11/26/24 08:36	11/30/24 15:50	1
13C2 PFDoA	79.2		10 - 130	11/26/24 08:36	11/30/24 15:50	1
13C2 PFTeDA	69.8		10 - 130	11/26/24 08:36	11/30/24 15:50	1
13C3 PFBS	104		40 - 135	11/26/24 08:36	11/30/24 15:50	1
13C3 PFHxS	89.9		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C8 PFOS	91.5		40 - 130	11/26/24 08:36	11/30/24 15:50	1
13C8 FOSA	80.7		40 - 130	11/26/24 08:36	11/30/24 15:50	1
d3-NMeFOSAA	59.2		40 - 170	11/26/24 08:36	11/30/24 15:50	1
d5-NEtFOSAA	57.9		25 - 135	11/26/24 08:36	11/30/24 15:50	1
13C2 4:2 FTS	56.3		40 - 200	11/26/24 08:36	11/30/24 15:50	1
13C2 6:2 FTS	53.3		40 - 200	11/26/24 08:36	11/30/24 15:50	1
13C3 HFPO-DA	84.8		40 - 130	11/26/24 08:36	11/30/24 15:50	1
d7-N-MeFOSE-M	75.8		10 - 130	11/26/24 08:36	11/30/24 15:50	1
d9-N-EtFOSE-M	76.3		10 - 130	11/26/24 08:36	11/30/24 15:50	1
d5-NEtPFOSA	79.6		10 - 130	11/26/24 08:36	11/30/24 15:50	1
d3-NMePFOSA	77.1		10 - 130	11/26/24 08:36	11/30/24 15:50	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Fwla s, Fwlb s, Fwlc s

Lab Sample ID: 320-117127-8

Date Collected: 11/18/24 10:15

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		3.0		ng/L		11/26/24 08:36	12/05/24 03:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	73.4		40 - 300				11/26/24 08:36	12/05/24 03:56	1

Client Sample ID: Fwld d, Fw1e d, Fw-lf d

Lab Sample ID: 320-117127-9

Date Collected: 11/18/24 10:20

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluoropentanoic acid (PFPeA)	3.2		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorohexanoic acid (PFHxA)	2.6		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorooctanoic acid (PFOA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorononanoic acid (PFNA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorodecanoic acid (PFDA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorooctanesulfonic acid (PFOS)	3.2		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
4:2 FTS	ND		3.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
6:2 FTS	ND		3.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
8:2 FTS	ND		3.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NMeFOSA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NEtFOSA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NMeFOSAA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NEtFOSAA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NMeFOSE	ND		7.9		ng/L		11/21/24 07:30	11/23/24 13:25	1
NEtFOSE	ND		7.9		ng/L		11/21/24 07:30	11/23/24 13:25	1
HFPO-DA (GenX)	ND		1.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
PFMPA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
PFMBA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
NFDHA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
9CI-PF3ONS	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1

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Client Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Fwld d, Fw1e d, Fw-lf d

Lab Sample ID: 320-117127-9

Date Collected: 11/18/24 10:20

Matrix: Water

Date Received: 11/20/24 09:40

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
PFEESA	ND		1.6		ng/L		11/21/24 07:30	11/23/24 13:25	1
3:3 FTCA	ND		3.2		ng/L		11/21/24 07:30	11/23/24 13:25	1
5:3 FTCA	ND		7.9		ng/L		11/21/24 07:30	11/23/24 13:25	1
7:3 FTCA	ND		7.9		ng/L		11/21/24 07:30	11/23/24 13:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99.6		5 - 130				11/21/24 07:30	11/23/24 13:25	1
13C5 PFPeA	94.1		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C5 PFHxA	94.0		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C4 PFHpA	92.5		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C8 PFOA	98.8		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C9 PFNA	100		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C6 PFDA	99.7		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C7 PFUnA	94.7		30 - 130				11/21/24 07:30	11/23/24 13:25	1
13C2 PFDoA	82.1		10 - 130				11/21/24 07:30	11/23/24 13:25	1
13C2 PFTeDA	73.3		10 - 130				11/21/24 07:30	11/23/24 13:25	1
13C3 PFBS	105		40 - 135				11/21/24 07:30	11/23/24 13:25	1
13C3 PFHxS	101		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C8 PFOS	101		40 - 130				11/21/24 07:30	11/23/24 13:25	1
13C8 FOSA	95.8		40 - 130				11/21/24 07:30	11/23/24 13:25	1
d3-NMeFOSAA	90.1		40 - 170				11/21/24 07:30	11/23/24 13:25	1
d5-NEtFOSAA	85.7		25 - 135				11/21/24 07:30	11/23/24 13:25	1
13C2 4:2 FTS	160		40 - 200				11/21/24 07:30	11/23/24 13:25	1
13C2 6:2 FTS	117		40 - 200				11/21/24 07:30	11/23/24 13:25	1
13C2 8:2 FTS	88.8		40 - 300				11/21/24 07:30	11/23/24 13:25	1
13C3 HFPO-DA	99.8		40 - 130				11/21/24 07:30	11/23/24 13:25	1
d7-N-MeFOSE-M	77.9		10 - 130				11/21/24 07:30	11/23/24 13:25	1
d9-N-EtFOSE-M	54.8		10 - 130				11/21/24 07:30	11/23/24 13:25	1
d5-NEtPFOSA	73.6		10 - 130				11/21/24 07:30	11/23/24 13:25	1
d3-NMePFOSA	79.8		10 - 130				11/21/24 07:30	11/23/24 13:25	1

Isotope Dilution Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
320-117127-1	Cla s, Clb s, Clc s	95.1	92.4	94.3	97.7	94.3	88.7	90.7	90.6
320-117127-1 - RA	Cla s, Clb s, Clc s								
320-117127-2	Cld, Cle d, Clf d	95.4	96.2	95.4	94.4	101	88.5	88.0	82.6
320-117127-2 - RA	Cld, Cle d, Clf d								
320-117127-4	Eld d, Ele d, Elf d	94.9	93.6	93.0	93.6	100	91.4	92.7	87.9
320-117127-4 - RA	Eld d, Ele d, Elf d								
320-117127-5	E-la s, Elb s, Elc s	94.6	91.6	92.8	91.7	99.7	97.0	91.7	86.8
320-117127-5 - RA	E-la s, Elb s, Elc s								
320-117127-6	Wla s, WIB s, Wlc s	93.1	97.8	88.2	90.5	95.9	91.2	94.4	87.7
320-117127-6 - RA	Wla s, WIB s, Wlc s								
320-117127-7	Wld d, Wle d, WIF d	93.3	90.8	91.0	89.9	102	95.1	94.6	93.7
320-117127-7 - RA	Wld d, Wle d, WIF d								
320-117127-8	Fwla s, Fwlb s, Fwlc s	93.6	89.8	93.7	91.3	90.8	85.6	91.4	87.9
320-117127-8 - RA	Fwla s, Fwlb s, Fwlc s								
320-117127-9	Fwld d, Fwle d, Fwlf d	99.6	94.1	94.0	92.5	98.8	100	99.7	94.7
LCS 320-816874/3-A	Lab Control Sample	101	92.7	96.5	98.7	97.8	106	98.6	101
LCS 320-817915/3-A	Lab Control Sample	94.4	91.8	89.4	87.4	99.9	88.9	91.6	94.3
LCS 320-817915/3-A - RA	Lab Control Sample								
LCSD 320-816874/4-A	Lab Control Sample Dup	109	90.7	93.9	92.7	98.1	99.0	97.6	96.6
LCSD 320-817915/4-A	Lab Control Sample Dup	95.9	91.1	91.7	87.7	95.0	80.8	84.2	82.5
LCSD 320-817915/4-A - RA	Lab Control Sample Dup								
LLCS 320-816874/2-A	Lab Control Sample	103	91.4	92.0	97.6	98.6	98.1	99.5	98.9
LLCS 320-817915/2-A	Lab Control Sample	92.9	92.4	84.4	88.6	89.2	81.4	79.9	87.0
LLCS 320-817915/2-A - RA	Lab Control Sample								
MB 320-816874/1-A	Method Blank	102	92.3	93.8	97.2	97.6	100	101	102
MB 320-817915/1-A	Method Blank	96.3	104	95.0	104	96.5	86.2	92.0	90.8
MB 320-817915/1-A - RA	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
320-117127-1	Cla s, Clb s, Clc s	76.1	65.1	110	94.0	93.3	79.1	64.4	59.9
320-117127-1 - RA	Cla s, Clb s, Clc s								
320-117127-2	Cld, Cle d, Clf d	74.5	61.3	111	91.4	87.0	76.3	56.7	55.3
320-117127-2 - RA	Cld, Cle d, Clf d								
320-117127-4	Eld d, Ele d, Elf d	82.0	70.5	102	92.6	97.1	82.6	62.7	58.9
320-117127-4 - RA	Eld d, Ele d, Elf d								
320-117127-5	E-la s, Elb s, Elc s	74.2	66.9	106	92.5	95.3	80.9	58.7	56.8
320-117127-5 - RA	E-la s, Elb s, Elc s								
320-117127-6	Wla s, WIB s, Wlc s	79.6	69.4	106	93.7	95.7	81.7	58.2	56.7
320-117127-6 - RA	Wla s, WIB s, Wlc s								
320-117127-7	Wld d, Wle d, WIF d	77.4	70.6	122	94.6	94.2	79.6	55.9	56.0
320-117127-7 - RA	Wld d, Wle d, WIF d								
320-117127-8	Fwla s, Fwlb s, Fwlc s	79.2	69.8	104	89.9	91.5	80.7	59.2	57.9
320-117127-8 - RA	Fwla s, Fwlb s, Fwlc s								
320-117127-9	Fwld d, Fwle d, Fwlf d	82.1	73.3	105	101	101	95.8	90.1	85.7
LCS 320-816874/3-A	Lab Control Sample	96.5	89.6	110	103	103	92.6	102	100
LCS 320-817915/3-A	Lab Control Sample	86.5	73.6	104	92.6	90.1	81.9	70.7	72.9
LCS 320-817915/3-A - RA	Lab Control Sample								
LCSD 320-816874/4-A	Lab Control Sample Dup	93.6	86.1	105	101	96.6	90.7	98.5	95.4

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Isotope Dilution Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o A (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
LCSD 320-817915/4-A	Lab Control Sample Dup	78.6	69.0	88.8	80.9	85.8	81.4	68.1	67.0
LCSD 320-817915/4-A - RA	Lab Control Sample Dup								
LLCS 320-816874/2-A	Lab Control Sample	91.8	87.5	108	104	105	92.2	96.9	95.3
LLCS 320-817915/2-A	Lab Control Sample	76.1	69.4	92.4	83.8	84.5	77.1	71.6	69.3
LLCS 320-817915/2-A - RA	Lab Control Sample								
MB 320-816874/1-A	Method Blank	95.9	92.9	105	104	105	92.7	95.8	97.3
MB 320-817915/1-A	Method Blank	85.8	76.8	95.9	93.2	93.9	84.2	78.8	75.8
MB 320-817915/1-A - RA	Method Blank								
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
320-117127-1	Cla s, Clb s, Clc s	52.4	52.3		79.7	72.3	70.9	72.2	73.9
320-117127-1 - RA	Cla s, Clb s, Clc s			73.2					
320-117127-2	Cld, Cle d, Clf d	50.3	50.5		77.0	66.0	64.8	63.7	64.7
320-117127-2 - RA	Cld, Cle d, Clf d			60.4					
320-117127-4	Eld d, Ele d, Elf d	44.4	45.1		90.8	78.2	77.1	77.9	78.2
320-117127-4 - RA	Eld d, Ele d, Elf d			62.5					
320-117127-5	E-la s, Elb s, Elc s	50.7	40.7		87.9	77.5	73.3	73.9	74.5
320-117127-5 - RA	E-la s, Elb s, Elc s			63.5					
320-117127-6	Wla s, Wlb s, Wlc s	47.3	40.5		84.1	78.5	76.7	78.0	77.8
320-117127-6 - RA	Wla s, Wlb s, Wlc s			64.4					
320-117127-7	Wld d, Wle d, Wlf d	51.8	46.4		84.4	75.1	74.3	76.2	75.2
320-117127-7 - RA	Wld d, Wle d, Wlf d			61.6					
320-117127-8	Fwla s, Fwlb s, Fwlc s	56.3	53.3		84.8	75.8	76.3	79.6	77.1
320-117127-8 - RA	Fwla s, Fwlb s, Fwlc s			73.4					
320-117127-9	Fwld d, Fw1e d, Fw-lf d	160	117	88.8	99.8	77.9	54.8	73.6	79.8
LCS 320-816874/3-A	Lab Control Sample	122	122	114	93.7	89.2	56.4	79.4	78.5
LCS 320-817915/3-A	Lab Control Sample	82.2	78.8		75.8	77.5	74.3	71.4	73.9
LCS 320-817915/3-A - RA	Lab Control Sample			96.2					
LCSD 320-816874/4-A	Lab Control Sample Dup	130	118	107	93.4	80.8	50.2	74.3	76.6
LCSD 320-817915/4-A	Lab Control Sample Dup	76.5	72.7		74.2	76.7	73.8	74.9	74.3
LCSD 320-817915/4-A - RA	Lab Control Sample Dup			91.3					
LLCS 320-816874/2-A	Lab Control Sample	127	121	105	91.8	81.4	50.2	72.9	71.1
LLCS 320-817915/2-A	Lab Control Sample	81.5	79.0		73.4	73.2	72.2	66.7	69.7
LLCS 320-817915/2-A - RA	Lab Control Sample			96.6					
MB 320-816874/1-A	Method Blank	132	120	113	95.7	83.9	53.6	70.5	73.5
MB 320-817915/1-A	Method Blank	84.0	86.3		85.8	76.6	76.7	70.5	72.5
MB 320-817915/1-A - RA	Method Blank			114					

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFD_oA = 13C2 PFD_oA
PFTDA = 13C2 PFTeDA

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Isotope Dilution Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

- 1
- 2
- 3
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- 10
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- 12
- 13
- 14

QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-816874/1-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 816874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
4:2 FTS	ND		4.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
6:2 FTS	ND		4.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
8:2 FTS	ND		4.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NMeFOSA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NEtFOSA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NMeFOSAA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NEtFOSAA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NMeFOSE	ND		10		ng/L		11/21/24 07:30	11/23/24 08:50	1
NEtFOSE	ND		10		ng/L		11/21/24 07:30	11/23/24 08:50	1
HFPO-DA (GenX)	ND		1.5		ng/L		11/21/24 07:30	11/23/24 08:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
PFMPA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
PFMBA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
NFDHA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
9CI-PF3ONS	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
11CI-PF3OUdS	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
PFEESA	ND		2.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
3:3 FTCA	ND		4.0		ng/L		11/21/24 07:30	11/23/24 08:50	1
5:3 FTCA	ND		10		ng/L		11/21/24 07:30	11/23/24 08:50	1
7:3 FTCA	ND		10		ng/L		11/21/24 07:30	11/23/24 08:50	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		5 - 130	11/21/24 07:30	11/23/24 08:50	1
13C5 PFPeA	92.3		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C5 PFHxA	93.8		40 - 130	11/21/24 07:30	11/23/24 08:50	1

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-816874/1-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 816874

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	97.2		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C8 PFOA	97.6		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C9 PFNA	100		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C6 PFDA	101		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C7 PFUnA	102		30 - 130	11/21/24 07:30	11/23/24 08:50	1
13C2 PFDoA	95.9		10 - 130	11/21/24 07:30	11/23/24 08:50	1
13C2 PFTeDA	92.9		10 - 130	11/21/24 07:30	11/23/24 08:50	1
13C3 PFBS	105		40 - 135	11/21/24 07:30	11/23/24 08:50	1
13C3 PFHxS	104		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C8 PFOS	105		40 - 130	11/21/24 07:30	11/23/24 08:50	1
13C8 FOSA	92.7		40 - 130	11/21/24 07:30	11/23/24 08:50	1
d3-NMeFOSAA	95.8		40 - 170	11/21/24 07:30	11/23/24 08:50	1
d5-NEtFOSAA	97.3		25 - 135	11/21/24 07:30	11/23/24 08:50	1
13C2 4:2 FTS	132		40 - 200	11/21/24 07:30	11/23/24 08:50	1
13C2 6:2 FTS	120		40 - 200	11/21/24 07:30	11/23/24 08:50	1
13C2 8:2 FTS	113		40 - 300	11/21/24 07:30	11/23/24 08:50	1
13C3 HFPO-DA	95.7		40 - 130	11/21/24 07:30	11/23/24 08:50	1
d7-N-MeFOSE-M	83.9		10 - 130	11/21/24 07:30	11/23/24 08:50	1
d9-N-EtFOSE-M	53.6		10 - 130	11/21/24 07:30	11/23/24 08:50	1
d5-NEtPFOSA	70.5		10 - 130	11/21/24 07:30	11/23/24 08:50	1
d3-NMePFOSA	73.5		10 - 130	11/21/24 07:30	11/23/24 08:50	1

Lab Sample ID: LCS 320-816874/3-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	75.9		ng/L		95	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	41.4		ng/L		104	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	36.2		ng/L		90	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	38.8		ng/L		97	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	37.8		ng/L		95	70 - 150
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		94	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	40.1		ng/L		100	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	39.1		ng/L		98	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	39.8		ng/L		100	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	42.0		ng/L		105	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.9		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.5		ng/L		97	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	37.8		ng/L		101	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.7		ng/L		90	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.2		ng/L		95	70 - 150

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-816874/3-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	37.2	32.6		ng/L		88	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	35.0		ng/L		91	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	35.2		ng/L		91	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.1		ng/L		83	50 - 145
4:2 FTS	75.0	72.4		ng/L		97	70 - 145
6:2 FTS	76.2	69.9		ng/L		92	65 - 155
8:2 FTS	76.8	72.1		ng/L		94	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	38.0		ng/L		95	70 - 145
NMeFOSA	40.0	41.3		ng/L		103	60 - 150
NEtFOSA	40.0	38.9		ng/L		97	65 - 145
NMeFOSAA	40.0	40.4		ng/L		101	50 - 140
NEtFOSAA	40.0	36.3		ng/L		91	70 - 145
NMeFOSE	200	185		ng/L		93	70 - 145
NEtFOSE	200	237		ng/L		118	70 - 135
HFPO-DA (GenX)	30.0	29.9		ng/L		100	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.0		ng/L		100	65 - 145
PFMPA	40.0	45.6		ng/L		114	55 - 140
PFMBA	40.0	42.8		ng/L		107	60 - 150
NFDHA	40.0	40.2		ng/L		101	50 - 150
9Cl-PF3ONS	37.4	37.0		ng/L		99	70 - 155
11Cl-PF3OUdS	37.8	37.8		ng/L		100	55 - 160
PFEESA	35.7	34.2		ng/L		96	70 - 140
3:3 FTCA	80.0	91.5		ng/L		114	65 - 130
5:3 FTCA	200	181		ng/L		91	70 - 135
7:3 FTCA	200	173		ng/L		86	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	101		5 - 130
13C5 PFPeA	92.7		40 - 130
13C5 PFHxA	96.5		40 - 130
13C4 PFHpA	98.7		40 - 130
13C8 PFOA	97.8		40 - 130
13C9 PFNA	106		40 - 130
13C6 PFDA	98.6		40 - 130
13C7 PFUnA	101		30 - 130
13C2 PFDoA	96.5		10 - 130
13C2 PFTeDA	89.6		10 - 130
13C3 PFBS	110		40 - 135
13C3 PFHxS	103		40 - 130
13C8 PFOS	103		40 - 130
13C8 FOSA	92.6		40 - 130
d3-NMeFOSAA	102		40 - 170
d5-NEtFOSAA	100		25 - 135
13C2 4:2 FTS	122		40 - 200

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-816874/3-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 816874

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 6:2 FTS	122		40 - 200
13C2 8:2 FTS	114		40 - 300
13C3 HFPO-DA	93.7		40 - 130
d7-N-MeFOSE-M	89.2		10 - 130
d9-N-EtFOSE-M	56.4		10 - 130
d5-NEtPFOSA	79.4		10 - 130
d3-NMePFOSA	78.5		10 - 130

Lab Sample ID: LCSD 320-816874/4-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	69.9		ng/L		87	70 - 140	8	30
Perfluoropentanoic acid (PFPeA)	40.0	39.1		ng/L		98	65 - 135	6	30
Perfluorohexanoic acid (PFHxA)	40.0	36.4		ng/L		91	70 - 145	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.0		ng/L		95	70 - 150	2	30
Perfluorooctanoic acid (PFOA)	40.0	36.1		ng/L		90	70 - 150	5	30
Perfluorononanoic acid (PFNA)	40.0	37.9		ng/L		95	70 - 150	0	30
Perfluorodecanoic acid (PFDA)	40.0	38.6		ng/L		96	70 - 140	4	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.1		ng/L		100	70 - 145	2	30
Perfluorododecanoic acid (PFDoA)	40.0	39.1		ng/L		98	70 - 140	2	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.5		ng/L		101	65 - 140	4	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.5		ng/L		96	60 - 140	1	30
Perfluorobutanesulfonic acid (PFBS)	35.5	33.5		ng/L		94	60 - 145	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.2		ng/L		94	65 - 140	7	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	30.8		ng/L		84	65 - 145	6	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	36.7		ng/L		96	70 - 150	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	33.9		ng/L		91	55 - 150	4	30
Perfluorononanesulfonic acid (PFNS)	38.5	36.9		ng/L		96	65 - 145	5	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.2		ng/L		96	60 - 145	5	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	31.6		ng/L		81	50 - 145	1	30
4:2 FTS	75.0	69.4		ng/L		93	70 - 145	4	30
6:2 FTS	76.2	66.7		ng/L		88	65 - 155	5	30
8:2 FTS	76.8	70.0		ng/L		91	60 - 150	3	30
Perfluorooctanesulfonamide (PFOSA)	40.0	36.7		ng/L		92	70 - 145	3	30
NMeFOSA	40.0	39.7		ng/L		99	60 - 150	4	30
NEtFOSA	40.0	38.4		ng/L		96	65 - 145	1	30
NMeFOSAA	40.0	39.0		ng/L		98	50 - 140	3	30

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-816874/4-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	40.0	35.4		ng/L		89	70 - 145	2	30
NMeFOSE	200	191		ng/L		96	70 - 145	3	30
NEtFOSE	200	239		ng/L		119	70 - 135	1	30
HFPO-DA (GenX)	30.0	28.6		ng/L		95	70 - 140	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	33.5		ng/L		89	65 - 145	13	30
PFMPA	40.0	43.0		ng/L		107	55 - 140	6	30
PFMBA	40.0	38.7		ng/L		97	60 - 150	10	30
NFDHA	40.0	41.3		ng/L		103	50 - 150	3	30
9Cl-PF3ONS	37.4	33.7		ng/L		90	70 - 155	9	30
11Cl-PF3OUdS	37.8	32.8		ng/L		87	55 - 160	14	30
PFEESA	35.7	33.9		ng/L		95	70 - 140	1	30
3:3 FTCA	80.0	80.0		ng/L		100	65 - 130	13	30
5:3 FTCA	200	179		ng/L		89	70 - 135	1	30
7:3 FTCA	200	164		ng/L		82	50 - 145	5	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	109		5 - 130
13C5 PFPeA	90.7		40 - 130
13C5 PFHxA	93.9		40 - 130
13C4 PFHpA	92.7		40 - 130
13C8 PFOA	98.1		40 - 130
13C9 PFNA	99.0		40 - 130
13C6 PFDA	97.6		40 - 130
13C7 PFUnA	96.6		30 - 130
13C2 PFDoA	93.6		10 - 130
13C2 PFTeDA	86.1		10 - 130
13C3 PFBS	105		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	96.6		40 - 130
13C8 FOSA	90.7		40 - 130
d3-NMeFOSAA	98.5		40 - 170
d5-NEtFOSAA	95.4		25 - 135
13C2 4:2 FTS	130		40 - 200
13C2 6:2 FTS	118		40 - 200
13C2 8:2 FTS	107		40 - 300
13C3 HFPO-DA	93.4		40 - 130
d7-N-MeFOSE-M	80.8		10 - 130
d9-N-EtFOSE-M	50.2		10 - 130
d5-NEtPFOSA	74.3		10 - 130
d3-NMePFOSA	76.6		10 - 130

Lab Sample ID: LLCS 320-816874/2-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.44		ng/L		93	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.97		ng/L		99	65 - 135

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-816874/2-A

Matrix: Water

Analysis Batch: 817414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 816874

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	4.00	4.13		ng/L		103	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.79		ng/L		95	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.89		ng/L		97	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.83		ng/L		96	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.88		ng/L		97	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.91		ng/L		98	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.20		ng/L		105	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.29		ng/L		107	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.06		ng/L		101	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.37		ng/L		95	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.52		ng/L		94	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.23		ng/L		89	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.62		ng/L		95	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.38		ng/L		91	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.52		ng/L		91	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.43		ng/L		89	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.67		ng/L		69	50 - 145
4:2 FTS	7.50	6.75		ng/L		90	70 - 145
6:2 FTS	7.62	6.82		ng/L		90	65 - 155
8:2 FTS	7.68	7.50		ng/L		98	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.55		ng/L		89	70 - 145
NMeFOSA	4.00	3.90		ng/L		97	60 - 150
NEtFOSA	4.00	3.49		ng/L		87	65 - 145
NMeFOSAA	4.00	3.93		ng/L		98	50 - 140
NEtFOSAA	4.00	3.69		ng/L		92	70 - 145
NMeFOSE	20.0	18.2		ng/L		91	70 - 145
NEtFOSE	20.0	23.6		ng/L		118	70 - 135
HFPO-DA (GenX)	3.00	2.90		ng/L		97	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.58		ng/L		95	65 - 145
PFMPA	4.00	4.21		ng/L		105	55 - 140
PFMBA	4.00	4.02		ng/L		101	60 - 150
NFDHA	4.00	3.65		ng/L		91	50 - 150
9Cl-PF3ONS	3.74	3.69		ng/L		99	70 - 155
11Cl-PF3OUdS	3.78	3.74		ng/L		99	55 - 160
PFEESA	3.57	3.63		ng/L		102	70 - 140
3:3 FTCA	8.00	8.08		ng/L		101	65 - 130
5:3 FTCA	20.0	17.6		ng/L		88	70 - 135
7:3 FTCA	20.0	16.7		ng/L		83	50 - 145

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	103		5 - 130
13C5 PFPeA	91.4		40 - 130
13C5 PFHxA	92.0		40 - 130
13C4 PFHpA	97.6		40 - 130
13C8 PFOA	98.6		40 - 130
13C9 PFNA	98.1		40 - 130
13C6 PFDA	99.5		40 - 130
13C7 PFUnA	98.9		30 - 130
13C2 PFDoA	91.8		10 - 130
13C2 PFTeDA	87.5		10 - 130
13C3 PFBS	108		40 - 135
13C3 PFHxS	104		40 - 130
13C8 PFOS	105		40 - 130
13C8 FOSA	92.2		40 - 130
d3-NMeFOSAA	96.9		40 - 170
d5-NEtFOSAA	95.3		25 - 135
13C2 4:2 FTS	127		40 - 200
13C2 6:2 FTS	121		40 - 200
13C2 8:2 FTS	105		40 - 300
13C3 HFPO-DA	91.8		40 - 130
d7-N-MeFOSE-M	81.4		10 - 130
d9-N-EtFOSE-M	50.2		10 - 130
d5-NEtPFOSA	72.9		10 - 130
d3-NMePFOSA	71.1		10 - 130

Lab Sample ID: MB 320-817915/1-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 817915

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		4.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorotridecanoic acid (PFTeDA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
4:2 FTS	ND		4.0		ng/L		11/26/24 08:36	11/30/24 13:01	1

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-817915/1-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 817915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NMeFOSA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NEtFOSA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NMeFOSAA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NEtFOSAA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NMeFOSE	ND		10		ng/L		11/26/24 08:36	11/30/24 13:01	1
NEtFOSE	ND		10		ng/L		11/26/24 08:36	11/30/24 13:01	1
HFPO-DA (GenX)	ND		1.5		ng/L		11/26/24 08:36	11/30/24 13:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
PFMPA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
PFMBA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
NFDHA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
9CI-PF3ONS	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
11CI-PF3OUdS	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
PFEESA	ND		2.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
3:3 FTCA	ND		4.0		ng/L		11/26/24 08:36	11/30/24 13:01	1
5:3 FTCA	ND		10		ng/L		11/26/24 08:36	11/30/24 13:01	1
7:3 FTCA	ND		10		ng/L		11/26/24 08:36	11/30/24 13:01	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96.3		5 - 130	11/26/24 08:36	11/30/24 13:01	1
13C5 PFPeA	104		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C5 PFHxA	95.0		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C4 PFHpA	104		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C8 PFOA	96.5		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C9 PFNA	86.2		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C6 PFDA	92.0		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C7 PFUnA	90.8		30 - 130	11/26/24 08:36	11/30/24 13:01	1
13C2 PFDoA	85.8		10 - 130	11/26/24 08:36	11/30/24 13:01	1
13C2 PFTeDA	76.8		10 - 130	11/26/24 08:36	11/30/24 13:01	1
13C3 PFBS	95.9		40 - 135	11/26/24 08:36	11/30/24 13:01	1
13C3 PFHxS	93.2		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C8 PFOS	93.9		40 - 130	11/26/24 08:36	11/30/24 13:01	1
13C8 FOSA	84.2		40 - 130	11/26/24 08:36	11/30/24 13:01	1
d3-NMeFOSAA	78.8		40 - 170	11/26/24 08:36	11/30/24 13:01	1
d5-NEtFOSAA	75.8		25 - 135	11/26/24 08:36	11/30/24 13:01	1
13C2 4:2 FTS	84.0		40 - 200	11/26/24 08:36	11/30/24 13:01	1
13C2 6:2 FTS	86.3		40 - 200	11/26/24 08:36	11/30/24 13:01	1
13C3 HFPO-DA	85.8		40 - 130	11/26/24 08:36	11/30/24 13:01	1
d7-N-MeFOSE-M	76.6		10 - 130	11/26/24 08:36	11/30/24 13:01	1
d9-N-EtFOSE-M	76.7		10 - 130	11/26/24 08:36	11/30/24 13:01	1
d5-NEtPFOSA	70.5		10 - 130	11/26/24 08:36	11/30/24 13:01	1
d3-NMePFOSA	72.5		10 - 130	11/26/24 08:36	11/30/24 13:01	1

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-817915/3-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	74.8		ng/L		94	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	41.3		ng/L		103	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	37.7		ng/L		94	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	40.0		ng/L		100	70 - 150
Perfluorononanoic acid (PFNA)	40.0	41.8		ng/L		104	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	41.0		ng/L		102	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	43.6		ng/L		109	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	43.9		ng/L		110	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	39.9		ng/L		100	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.7		ng/L		98	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	38.2		ng/L		102	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.6		ng/L		92	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.7		ng/L		104	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	37.4		ng/L		101	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	37.8		ng/L		98	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	39.6		ng/L		103	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.5		ng/L		92	50 - 145
4:2 FTS	75.0	78.2		ng/L		104	70 - 145
6:2 FTS	76.2	71.6		ng/L		94	65 - 155
Perfluorooctanesulfonamide (PFOSA)	40.0	37.6		ng/L		94	70 - 145
NMeFOSA	40.0	42.6		ng/L		106	60 - 150
NEtFOSA	40.0	41.3		ng/L		103	65 - 145
NMeFOSAA	40.0	45.3		ng/L		113	50 - 140
NEtFOSAA	40.0	41.1		ng/L		103	70 - 145
NMeFOSE	200	197		ng/L		99	70 - 145
NEtFOSE	200	201		ng/L		101	70 - 135
HFPO-DA (GenX)	30.0	30.9		ng/L		103	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.2		ng/L		117	65 - 145
PFMPA	40.0	38.7		ng/L		97	55 - 140
PFMBA	40.0	38.8		ng/L		97	60 - 150
NFDHA	40.0	37.2		ng/L		93	50 - 150
9CI-PF3ONS	37.4	38.1		ng/L		102	70 - 155
11CI-PF3OUdS	37.8	41.7		ng/L		110	55 - 160
PFEESA	35.7	35.0		ng/L		98	70 - 140
3:3 FTCA	80.0	68.2		ng/L		85	65 - 130
5:3 FTCA	200	169		ng/L		84	70 - 135

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-817915/3-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
7:3 FTCA	200	150		ng/L		75	50 - 145
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C4 PFBA	94.4		5 - 130				
13C5 PFPeA	91.8		40 - 130				
13C5 PFHxA	89.4		40 - 130				
13C4 PFHpA	87.4		40 - 130				
13C8 PFOA	99.9		40 - 130				
13C9 PFNA	88.9		40 - 130				
13C6 PFDA	91.6		40 - 130				
13C7 PFUnA	94.3		30 - 130				
13C2 PFDoA	86.5		10 - 130				
13C2 PFTeDA	73.6		10 - 130				
13C3 PFBS	104		40 - 135				
13C3 PFHxS	92.6		40 - 130				
13C8 PFOS	90.1		40 - 130				
13C8 FOSA	81.9		40 - 130				
d3-NMeFOSAA	70.7		40 - 170				
d5-NEtFOSAA	72.9		25 - 135				
13C2 4:2 FTS	82.2		40 - 200				
13C2 6:2 FTS	78.8		40 - 200				
13C3 HFPO-DA	75.8		40 - 130				
d7-N-MeFOSE-M	77.5		10 - 130				
d9-N-EtFOSE-M	74.3		10 - 130				
d5-NEtPFOSA	71.4		10 - 130				
d3-NMePFOSA	73.9		10 - 130				

Lab Sample ID: LCSD 320-817915/4-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	80.0	73.1		ng/L		91	70 - 140	2	30
Perfluoropentanoic acid (PFPeA)	40.0	40.0		ng/L		100	65 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	39.5		ng/L		99	70 - 145	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.0		ng/L		100	70 - 150	6	30
Perfluorooctanoic acid (PFOA)	40.0	38.8		ng/L		97	70 - 150	3	30
Perfluorononanoic acid (PFNA)	40.0	41.2		ng/L		103	70 - 150	1	30
Perfluorodecanoic acid (PFDA)	40.0	39.5		ng/L		99	70 - 140	4	30
Perfluoroundecanoic acid (PFUnA)	40.0	42.0		ng/L		105	70 - 145	9	30
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	70 - 140	3	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.1		ng/L		103	65 - 140	6	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	40.5		ng/L		101	60 - 140	1	30
Perfluorobutanesulfonic acid (PFBS)	35.5	33.3		ng/L		94	60 - 145	4	30

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-817915/4-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanesulfonic acid (PFPeS)	37.6	39.1		ng/L		104	65 - 140	2	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.9		ng/L		96	65 - 145	4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.9		ng/L		99	70 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	37.2	35.5		ng/L		95	55 - 150	5	30
Perfluorononanesulfonic acid (PFNS)	38.5	37.8		ng/L		98	65 - 145	0	30
Perfluorodecanesulfonic acid (PFDS)	38.6	39.3		ng/L		102	60 - 145	1	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.6		ng/L		92	50 - 145	0	30
4:2 FTS	75.0	70.1		ng/L		93	70 - 145	11	30
6:2 FTS	76.2	66.5		ng/L		87	65 - 155	7	30
Perfluorooctanesulfonamide (PFOSA)	40.0	36.6		ng/L		91	70 - 145	3	30
NMeFOSA	40.0	43.1		ng/L		108	60 - 150	1	30
NEtFOSA	40.0	40.3		ng/L		101	65 - 145	2	30
NMeFOSAA	40.0	42.3		ng/L		106	50 - 140	7	30
NEtFOSAA	40.0	41.5		ng/L		104	70 - 145	1	30
NMeFOSE	200	195		ng/L		97	70 - 145	1	30
NEtFOSE	200	197		ng/L		98	70 - 135	2	30
HFPO-DA (GenX)	30.0	31.5		ng/L		105	70 - 140	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	43.2		ng/L		114	65 - 145	2	30
PFMPA	40.0	36.7		ng/L		92	55 - 140	5	30
PFMBA	40.0	40.6		ng/L		101	60 - 150	4	30
NFDHA	40.0	32.9		ng/L		82	50 - 150	12	30
9Cl-PF3ONS	37.4	37.9		ng/L		101	70 - 155	0	30
11Cl-PF3OUdS	37.8	40.9		ng/L		108	55 - 160	2	30
PFEESA	35.7	32.2		ng/L		90	70 - 140	8	30
3:3 FTCA	80.0	66.0		ng/L		83	65 - 130	3	30
5:3 FTCA	200	169		ng/L		84	70 - 135	0	30
7:3 FTCA	200	143		ng/L		72	50 - 145	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	95.9		5 - 130
13C5 PFPeA	91.1		40 - 130
13C5 PFHxA	91.7		40 - 130
13C4 PFHpA	87.7		40 - 130
13C8 PFOA	95.0		40 - 130
13C9 PFNA	80.8		40 - 130
13C6 PFDA	84.2		40 - 130
13C7 PFUnA	82.5		30 - 130
13C2 PFDoA	78.6		10 - 130
13C2 PFTeDA	69.0		10 - 130
13C3 PFBS	88.8		40 - 135
13C3 PFHxS	80.9		40 - 130
13C8 PFOS	85.8		40 - 130

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-817915/4-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 817915

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C8 FOSA	81.4		40 - 130
d3-NMeFOSAA	68.1		40 - 170
d5-NEtFOSAA	67.0		25 - 135
13C2 4:2 FTS	76.5		40 - 200
13C2 6:2 FTS	72.7		40 - 200
13C3 HFPO-DA	74.2		40 - 130
d7-N-MeFOSE-M	76.7		10 - 130
d9-N-EtFOSE-M	73.8		10 - 130
d5-NEtPFOSA	74.9		10 - 130
d3-NMePFOSA	74.3		10 - 130

Lab Sample ID: LLCS 320-817915/2-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.83		ng/L		98	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.79		ng/L		120	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.28		ng/L		107	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.36		ng/L		109	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.54		ng/L		113	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.12		ng/L		103	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.48		ng/L		112	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.29		ng/L		107	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.61		ng/L		115	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.35		ng/L		109	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.15		ng/L		104	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.68		ng/L		104	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	4.31		ng/L		115	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.59		ng/L		98	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.06		ng/L		106	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.96		ng/L		106	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.95		ng/L		103	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	4.04		ng/L		105	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.56		ng/L		92	50 - 145
4:2 FTS	7.50	7.94		ng/L		106	70 - 145
6:2 FTS	7.62	7.10		ng/L		93	65 - 155
Perfluorooctanesulfonamide (PFOSA)	4.00	4.06		ng/L		101	70 - 145
NMeFOSA	4.00	4.31		ng/L		108	60 - 150

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-817915/2-A

Matrix: Water

Analysis Batch: 818549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSA	4.00	4.46		ng/L		111	65 - 145
NMeFOSAA	4.00	4.53		ng/L		113	50 - 140
NEtFOSAA	4.00	4.56		ng/L		114	70 - 145
NMeFOSE	20.0	20.6		ng/L		103	70 - 145
NEtFOSE	20.0	20.7		ng/L		104	70 - 135
HFPO-DA (GenX)	3.00	3.09		ng/L		103	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.61		ng/L		122	65 - 145
PFMPA	4.00	4.21		ng/L		105	55 - 140
PFMBA	4.00	4.07		ng/L		102	60 - 150
NFDHA	4.00	4.34		ng/L		108	50 - 150
9Cl-PF3ONS	3.74	3.92		ng/L		105	70 - 155
11Cl-PF3OUdS	3.78	4.50		ng/L		119	55 - 160
PFEESA	3.57	3.80		ng/L		106	70 - 140
3:3 FTCA	8.00	7.32		ng/L		91	65 - 130
5:3 FTCA	20.0	19.7		ng/L		99	70 - 135
7:3 FTCA	20.0	16.5		ng/L		83	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	92.9		5 - 130
13C5 PFPeA	92.4		40 - 130
13C5 PFHxA	84.4		40 - 130
13C4 PFHpA	88.6		40 - 130
13C8 PFOA	89.2		40 - 130
13C9 PFNA	81.4		40 - 130
13C6 PFDA	79.9		40 - 130
13C7 PFUnA	87.0		30 - 130
13C2 PFDoA	76.1		10 - 130
13C2 PFTeDA	69.4		10 - 130
13C3 PFBS	92.4		40 - 135
13C3 PFHxS	83.8		40 - 130
13C8 PFOS	84.5		40 - 130
13C8 FOSA	77.1		40 - 130
d3-NMeFOSAA	71.6		40 - 170
d5-NEtFOSAA	69.3		25 - 135
13C2 4:2 FTS	81.5		40 - 200
13C2 6:2 FTS	79.0		40 - 200
13C3 HFPO-DA	73.4		40 - 130
d7-N-MeFOSE-M	73.2		10 - 130
d9-N-EtFOSE-M	72.2		10 - 130
d5-NEtPFOSA	66.7		10 - 130
d3-NMePFOSA	69.7		10 - 130

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QC Sample Results

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Lab Sample ID: MB 320-817915/1-A

Matrix: Water

Analysis Batch: 819507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 817915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS - RA	ND		4.0		ng/L		11/26/24 08:36	12/05/24 00:39	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 8:2 FTS - RA	114		40 - 300				11/26/24 08:36	12/05/24 00:39	1

Lab Sample ID: LCS 320-817915/3-A

Matrix: Water

Analysis Batch: 819507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
8:2 FTS - RA	76.8	80.3		ng/L		105	60 - 150
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C2 8:2 FTS - RA	96.2		40 - 300				

Lab Sample ID: LCSD 320-817915/4-A

Matrix: Water

Analysis Batch: 819507

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
8:2 FTS - RA	76.8	73.9		ng/L		96	60 - 150	8	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C2 8:2 FTS - RA	91.3		40 - 300						

Lab Sample ID: LLCS 320-817915/2-A

Matrix: Water

Analysis Batch: 819507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 817915

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
8:2 FTS - RA	7.68	8.18		ng/L		106	60 - 150
Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits				
13C2 8:2 FTS - RA	96.6		40 - 300				

Eurofins Sacramento

QC Association Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

LCMS

Prep Batch: 816874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-117127-9	Fwld d, Fw1e d, Fw-lf d	Total/NA	Water	1633	
MB 320-816874/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-816874/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-816874/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-816874/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 817414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-117127-9	Fwld d, Fw1e d, Fw-lf d	Total/NA	Water	1633	816874
MB 320-816874/1-A	Method Blank	Total/NA	Water	1633	816874
LCS 320-816874/3-A	Lab Control Sample	Total/NA	Water	1633	816874
LCSD 320-816874/4-A	Lab Control Sample Dup	Total/NA	Water	1633	816874
LLCS 320-816874/2-A	Lab Control Sample	Total/NA	Water	1633	816874

Prep Batch: 817915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-117127-1 - RA	Cla s, Clb s, Clc s	Total/NA	Water	1633	
320-117127-1	Cla s, Clb s, Clc s	Total/NA	Water	1633	
320-117127-2 - RA	Cld, Cle d, Clf d	Total/NA	Water	1633	
320-117127-2	Cld, Cle d, Clf d	Total/NA	Water	1633	
320-117127-4 - RA	Eld d, Ele d, Elf d	Total/NA	Water	1633	
320-117127-4	Eld d, Ele d, Elf d	Total/NA	Water	1633	
320-117127-5 - RA	E-la s, Elb s, Elc s	Total/NA	Water	1633	
320-117127-5	E-la s, Elb s, Elc s	Total/NA	Water	1633	
320-117127-6 - RA	Wla s, WIB s, Wlc s	Total/NA	Water	1633	
320-117127-6	Wla s, WIB s, Wlc s	Total/NA	Water	1633	
320-117127-7 - RA	Wld d, Wle d, WIF d	Total/NA	Water	1633	
320-117127-7	Wld d, Wle d, WIF d	Total/NA	Water	1633	
320-117127-8 - RA	Fwla s, Fwlb s, Fwlc s	Total/NA	Water	1633	
320-117127-8	Fwla s, Fwlb s, Fwlc s	Total/NA	Water	1633	
MB 320-817915/1-A - RA	Method Blank	Total/NA	Water	1633	
MB 320-817915/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-817915/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCS 320-817915/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-817915/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-817915/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-817915/2-A - RA	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-817915/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 818549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-117127-1	Cla s, Clb s, Clc s	Total/NA	Water	1633	817915
320-117127-2	Cld, Cle d, Clf d	Total/NA	Water	1633	817915
320-117127-4	Eld d, Ele d, Elf d	Total/NA	Water	1633	817915
320-117127-5	E-la s, Elb s, Elc s	Total/NA	Water	1633	817915
320-117127-6	Wla s, WIB s, Wlc s	Total/NA	Water	1633	817915
320-117127-7	Wld d, Wle d, WIF d	Total/NA	Water	1633	817915
320-117127-8	Fwla s, Fwlb s, Fwlc s	Total/NA	Water	1633	817915
MB 320-817915/1-A	Method Blank	Total/NA	Water	1633	817915
LCS 320-817915/3-A	Lab Control Sample	Total/NA	Water	1633	817915
LCSD 320-817915/4-A	Lab Control Sample Dup	Total/NA	Water	1633	817915

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QC Association Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

LCMS (Continued)

Analysis Batch: 818549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 320-817915/2-A	Lab Control Sample	Total/NA	Water	1633	817915

Analysis Batch: 819507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-117127-1 - RA	Cla s, Clb s, Clc s	Total/NA	Water	1633	817915
320-117127-2 - RA	Cld, Cle d, Clf d	Total/NA	Water	1633	817915
320-117127-4 - RA	Eld d, Ele d, Elf d	Total/NA	Water	1633	817915
320-117127-5 - RA	E-la s, Elb s, Elc s	Total/NA	Water	1633	817915
320-117127-6 - RA	Wla s, WIB s, Wlc s	Total/NA	Water	1633	817915
320-117127-7 - RA	Wld d, Wle d, WIF d	Total/NA	Water	1633	817915
320-117127-8 - RA	Fwla s, Fwlb s, Fwlc s	Total/NA	Water	1633	817915
MB 320-817915/1-A - RA	Method Blank	Total/NA	Water	1633	817915
LCS 320-817915/3-A - RA	Lab Control Sample	Total/NA	Water	1633	817915
LCSD 320-817915/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	817915
LLCS 320-817915/2-A - RA	Lab Control Sample	Total/NA	Water	1633	817915

Lab Chronicle

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Cla s, Clb s, Clc s

Lab Sample ID: 320-117127-1

Date Collected: 11/18/24 09:20

Matrix: Water

Date Received: 11/19/24 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		159.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 01:44	K1S	EET SAC
Total/NA	Prep	1633			159.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 14:06	P1P	EET SAC

Client Sample ID: Cld, Cle d, Clf d

Lab Sample ID: 320-117127-2

Date Collected: 11/18/24 09:25

Matrix: Water

Date Received: 11/19/24 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		159.3 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 02:01	K1S	EET SAC
Total/NA	Prep	1633			159.3 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 14:19	P1P	EET SAC

Client Sample ID: Eld d, Ele d, Elf d

Lab Sample ID: 320-117127-4

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/20/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		159.9 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 02:17	K1S	EET SAC
Total/NA	Prep	1633			159.9 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 14:32	P1P	EET SAC

Client Sample ID: E-la s, Elb s, Elc s

Lab Sample ID: 320-117127-5

Date Collected: 11/18/24 09:45

Matrix: Water

Date Received: 11/19/24 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		163.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 02:34	K1S	EET SAC
Total/NA	Prep	1633			163.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 14:45	P1P	EET SAC

Client Sample ID: Wla s, WIB s, Wlc s

Lab Sample ID: 320-117127-6

Date Collected: 11/18/24 10:00

Matrix: Water

Date Received: 11/20/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		166.5 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 02:50	K1S	EET SAC
Total/NA	Prep	1633			166.5 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 14:58	P1P	EET SAC

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Lab Chronicle

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Client Sample ID: Wld d, Wle d, WIF d

Lab Sample ID: 320-117127-7

Date Collected: 11/18/24 10:10

Matrix: Water

Date Received: 11/19/24 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		166.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 03:06	K1S	EET SAC
Total/NA	Prep	1633			166.1 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 15:11	P1P	EET SAC

Client Sample ID: Fwla s, Fwlb s, Fwlc s

Lab Sample ID: 320-117127-8

Date Collected: 11/18/24 10:15

Matrix: Water

Date Received: 11/20/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		168.3 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			819507	12/05/24 03:56	K1S	EET SAC
Total/NA	Prep	1633			168.3 mL	5.0 mL	817915	11/26/24 08:36	CGL	EET SAC
Total/NA	Analysis	1633		1			818549	11/30/24 15:50	P1P	EET SAC

Client Sample ID: Fwld d, Fw1e d, Fw-lf d

Lab Sample ID: 320-117127-9

Date Collected: 11/18/24 10:20

Matrix: Water

Date Received: 11/20/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633			158.1 mL	5.0 mL	816874	11/21/24 07:30	CGL	EET SAC
Total/NA	Analysis	1633		1			817414	11/23/24 13:25	C1P	EET SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Michigan	State	9947	01-29-25
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Sacramento

Method Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

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Sample Summary

Client: West Texas A&M University
Project/Site: PFAS, Corpus Christi Texas Bay

Job ID: 320-117127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-117127-1	Cla s, Clb s, Clc s	Water	11/18/24 09:20	11/19/24 09:25
320-117127-2	Cld, Cle d, Clf d	Water	11/18/24 09:25	11/19/24 09:25
320-117127-4	Eld d, Ele d, Elf d	Water	11/18/24 09:45	11/20/24 09:40
320-117127-5	E-la s, Elb s, Elc s	Water	11/18/24 09:45	11/19/24 09:25
320-117127-6	Wla s, WIB s, Wlc s	Water	11/18/24 10:00	11/20/24 09:40
320-117127-7	Wld d, Wle d, WIF d	Water	11/18/24 10:10	11/19/24 09:25
320-117127-8	Fwla s, Fwlb s, Fwlc s	Water	11/18/24 10:15	11/20/24 09:40
320-117127-9	Fwld d, Fw1e d, Fw-lf d	Water	11/18/24 10:20	11/20/24 09:40

At Note Samples in 2 coolers &

Eurofins Sacramento
880 Riverside Parkway
West Sacramento CA 95605
Phone (916) 373-5600

Chain of Custody Record



En to man Testing

Client Information William J. Rogers		Sampler William J. Rogers		Lab PM		Carrier Tracking No(s)		COC No:	
City		Phone:		E-Mail:		State of Origin:		Page of	
Company OmniGene Solutions		PWSID:		Analysis Requested		Job #:		Preservation Codes	
Address:		Due Date Requested Standard TAT		TAT Requested (days):		Compliance Project: ☒ Yes ☒ No		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (specify)	
State, Zip:		PO #:		NA		WO #:		Other	
Phone:		Project #:		Carpus Christi		SSOW#:			
Email: rogers@omnigenesolutions.com		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (view water, solid, overwater, oil)	
Project Name: Carpus Christi		Sample Identification		Sample Date		Sample Time		Sample Type	
Site: Scary		C1a5 C1b5 C1c5		11/18/24 9:00A		6		W	
		C1d C1e C1f		11/18/24 9:25		6		W	
		C1g C1h C1i C1j C1k C1l		11/18/24 9:30		6		W	
		C1m C1n C1o C1p		11/18/24 9:45		6		W	
		C1q C1r C1s C1t		11/18/24 9:45		6		W	
		C1u C1v C1w C1x		11/18/24 10:00A		6		W	
		C1y C1z C1aa C1ab		11/18/24 10:10A		6		W	
		C1ac C1ad C1ae C1af		11/18/24 10:15A		6		W	
		C1ag C1ah C1ai C1aj		11/18/24 10:20A		6		W	
		C1ak C1al C1am C1an		11/18/24 11:15A		6		W	
		C1ao C1ap C1aq C1ar		11/18/24 11:15A		6		W	
		C1as C1at C1au C1av		11/18/24 11:15A		6		W	
		C1aw C1ax C1ay C1az		11/18/24 11:15A		6		W	
		C1ba C1bb C1bc C1bd		11/18/24 11:15A		6		W	
		C1be C1bf C1bg C1bh		11/18/24 11:15A		6		W	
		C1bi C1bj C1bk C1bl		11/18/24 11:15A		6		W	
		C1bm C1bn C1bo C1bp		11/18/24 11:15A		6		W	
		C1br C1bs C1bt C1bu		11/18/24 11:15A		6		W	
		C1bv C1bw C1bx C1by		11/18/24 11:15A		6		W	
		C1bz C1ca C1cb C1cc		11/18/24 11:15A		6		W	
		C1cd C1ce C1cf C1cg		11/18/24 11:15A		6		W	
		C1ch C1ci C1cj C1ck		11/18/24 11:15A		6		W	
		C1cl C1cm C1cn C1co		11/18/24 11:15A		6		W	
		C1cp C1cq C1cr C1cs		11/18/24 11:15A		6		W	
		C1ct C1cu C1cv C1cw		11/18/24 11:15A		6		W	
		C1cx C1cy C1cz C1da		11/18/24 11:15A		6		W	
		C1db C1dc C1dd C1de		11/18/24 11:15A		6		W	
		C1df C1dg C1dh C1di		11/18/24 11:15A		6		W	
		C1dj C1dk C1dl C1dm		11/18/24 11:15A		6		W	
		C1dn C1do C1dp C1dq		11/18/24 11:15A		6		W	
		C1dr C1ds C1dt C1du		11/18/24 11:15A		6		W	
		C1dv C1dw C1dx C1dy		11/18/24 11:15A		6		W	
		C1dz C1ea C1eb C1ec		11/18/24 11:15A		6		W	
		C1ed C1ee C1ef C1eg		11/18/24 11:15A		6		W	
		C1eh C1ei C1ej C1ek		11/18/24 11:15A		6		W	
		C1el C1em C1en C1eo		11/18/24 11:15A		6		W	
		C1ep C1eq C1er C1es		11/18/24 11:15A		6		W	
		C1et C1eu C1ev C1ew		11/18/24 11:15A		6		W	
		C1ex C1ey C1ez C1fa		11/18/24 11:15A		6		W	
		C1fb C1fc C1fd C1fe		11/18/24 11:15A		6		W	
		C1ff C1fg C1fh C1fi		11/18/24 11:15A		6		W	
		C1fj C1fk C1fl C1fm		11/18/24 11:15A		6		W	
		C1fn C1fo C1fp C1fq		11/18/24 11:15A		6		W	
		C1fr C1fs C1ft C1fu		11/18/24 11:15A		6		W	
		C1fv C1fw C1fx C1fy		11/18/24 11:15A		6		W	
		C1fz C1ga C1gb C1gc		11/18/24 11:15A		6		W	
		C1gd C1ge C1gf C1gg		11/18/24 11:15A		6		W	
		C1gh C1gi C1gj C1gk		11/18/24 11:15A		6		W	
		C1gl C1gm C1gn C1go		11/18/24 11:15A		6		W	
		C1gp C1gq C1gr C1gs		11/18/24 11:15A		6		W	
		C1gt C1gu C1gv C1gw		11/18/24 11:15A		6		W	
		C1gx C1gy C1gz C1ha		11/18/24 11:15A		6		W	
		C1hb C1hc C1hd C1he		11/18/24 11:15A		6		W	
		C1hf C1hg C1hh C1hi		11/18/24 11:15A		6		W	
		C1hj C1hk C1hl C1hm		11/18/24 11:15A		6		W	
		C1hn C1ho C1hp C1hq		11/18/24 11:15A		6		W	
		C1hr C1hs C1ht C1hu		11/18/24 11:15A		6		W	
		C1hv C1hw C1hx C1hy		11/18/24 11:15A		6		W	
		C1hz C1ia C1ib C1ic		11/18/24 11:15A		6		W	
		C1id C1ie C1if C1ig		11/18/24 11:15A		6		W	
		C1ih C1ii C1ij C1ik		11/18/24 11:15A		6		W	
		C1il C1im C1in C1io		11/18/24 11:15A		6		W	
		C1ip C1iq C1ir C1is		11/18/24 11:15A		6		W	
		C1it C1iu C1iv C1iw		11/18/24 11:15A		6		W	
		C1ix C1iy C1iz C1ja		11/18/24 11:15A		6		W	
		C1jb C1jc C1jd C1je		11/18/24 11:15A		6		W	
		C1jf C1jg C1jh C1ji		11/18/24 11:15A		6		W	
		C1jj C1jk C1jl C1jm		11/18/24 11:15A		6		W	
		C1jn C1jo C1jp C1jq		11/18/24 11:15A		6		W	
		C1jr C1js C1jt C1ju		11/18/24 11:15A		6		W	
		C1jv C1jw C1jx C1jy		11/18/24 11:15A		6		W	
		C1jz C1ka C1kb C1kc		11/18/24 11:15A		6		W	
		C1kd C1ke C1kf C1kg		11/18/24 11:15A		6		W	
		C1kh C1ki C1kj C1kl		11/18/24 11:15A		6		W	
		C1km C1kn C1ko C1kp		11/18/24 11:15A		6		W	
		C1kq C1kr C1ks C1kt		11/18/24 11:15A		6		W	
		C1ku C1kv C1kw C1kx		11/18/24 11:15A		6		W	
		C1ky C1kz C1la C1lb		11/18/24 11:15A		6		W	
		C1lc C1ld C1le C1lf		11/18/24 11:15A		6		W	
		C1lg C1lh C1li C1lj		11/18/24 11:15A		6		W	
		C1lj C1lk C1ll C1lm		11/18/24 11:15A		6		W	
		C1ln C1lo C1lp C1lq		11/18/24 11:15A		6		W	
		C1lr C1ls C1lt C1lu		11/18/24 11:15A		6		W	
		C1lv C1lw C1lx C1ly		11/18/24 11:15A		6		W	
		C1lz C1ma C1mb C1mc		11/18/24 11:15A		6		W	
		C1md C1me C1mf C1mg		11/18/24 11:15A		6		W	
		C1mh C1mi C1mj C1mk		11/18/24 11:15A		6		W	
		C1ml C1mn C1mo C1mp		11/18/24 11:15A		6		W	
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		C1mu C1mv C1mw C1mx		11/18/24 11:15A		6		W	
		C1my C1mz C1na C1nb		11/18/24 11:15A		6		W	
		C1nc C1nd C1ne C1nf		11/18/24 11:15A		6		W	
		C1ng C1nh C1ni C1nj		11/18/24 11:15A		6		W	
		C1nj C1nk C1nl C1nm		11/18/24 11:15A		6		W	
		C1nn C1no C1np C1nq		11/18/24 11:15A		6		W	
		C1nr C1ns C1nt C1nu		11/18/24 11:15A		6		W	
		C1nv C1nw C1nx C1ny		11/18/24 11:15A		6		W	
		C1nz C1oa C1ob C1oc		11/18/24 11:15A		6		W	
		C1od C1oe C1of C1og		11/18/24 11:15A		6		W	
		C1oh C1oi C1oj C1ok		11/18/24 11:15A		6		W	
		C1ol C1om C1on C1oo		11/18/24 11:15A		6		W	
		C1op C1oq C1or C1os		11/18/24 11:15A		6		W	
		C1ot C1ou C1ov C1ow		11/18/24 11:15A		6		W	
		C1ox C1oy C1oz C1pa		11/18/24 11:15A		6		W	
		C1pb C1pc C1pd C1pe		11/18/24 11:15A		6		W	
		C1pf C1pg C1ph C1pi		11/18/24 11:15A		6		W	
		C1pj C1pk C1pl C1pm		11/18/24 11:15A		6		W	
		C1pn C1po C1pp C1pq		11/18/24 11:15A		6		W	
		C1pr C1ps C1pt C1pu		11/18/24 11:15A		6		W	
		C1pv C1pw C1px C1py		11/18/24 11:15A		6		W	
		C1pz C1qa C1qb C1qc		11/18/24 11:15A		6		W	
		C1qd C1qe C1qf C1qg		11/18/24 11:15A		6		W	
		C1qh C1qi C1qj C1qk		11/18/24 11:15A		6		W	
		C1ql C1qm C1qn C1qo		11/18/24 11:15A		6		W	
		C1qp C1qq C1qr C1qs		11/18/24 11:15A		6		W	
		C1qt C1qu C1qv C1qw		11/18/24 11:15A		6		W	
		C1qx C1qy C1qz C1ra		11/18/24 11:15A		6		W	
		C1rb C1rc C1rd C1re		11/18/24 11:15A		6		W	
		C1rf C1rg C1rh C1ri		11/18/24 11:15A		6		W	
		C1rj C1rk C1rl C1rm		11/18/24 11:15A		6		W	
		C1rn C1ro C1rp C1rq		11/18/24 11:15A		6		W	
		C1rr C1rs C1rt C1ru		11/18/24 11:15A		6		W	
		C1rv C1rw C1rx C1ry		11/18/24 11:15A		6		W	
		C1rz C1sa C1sb C1sc		11/18/24 11:15A		6		W	
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		C1sh C1si C1sj C1sk		11/18/24 11:15A		6		W	
		C1sl C1sm C1sn C1so		11/18/24 11:15A		6		W	
		C1sp C1sq C1sr C1ss		11/18/24 11:15A		6		W	
		C1st C1su C1sv C1sw		11/18/24 11:15A		6		W	
		C1sx C1sy C1sz C1ta		11/18/24 11:15A		6		W	
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		C1tf C1tg C1th C1ti		11/18/24 11:15A		6		W	
		C1tj C1tk C1tl C1tm		11/18/24 11:15A		6		W	
		C1tn C1to C1tp C1tq		11/18/24 11:15A		6		W	
		C1tr C1ts C1tt C1tu		11/18/24 11:15A		6		W	
		C1tv C1tw C1tx C1ty		11/18/24 11:15A		6		W	
		C1tz C1ua C1ub C1uc		11/18/24 11:15A		6		W	
		C1ud C1ue C1uf C1ug		11/18/24 11:15A		6		W	
		C1uh C1ui C1uj C1uk		11/18/24 11:15A		6		W	
		C1ul C1um C1un C1uo		11/18/24 11:15A		6		W	
		C1up C1uq C1ur C1us		11/18/24 11:15A		6		W	
		C1ut C1uu C1uv C1uw		11/18/24 11:15A		6		W	
		C1ux C1uy C1uz C1va		11/18/24 11:15A		6		W	
		C1vb C1vc C1vd C1ve		11/18/24 11:15A		6		W	
		C1vf C1vg C1vh C1vi		11/18/24 11:15A		6		W	
		C1vj C1vk C1vl C1vm		11/18/24 11:15A		6		W	
		C1vn C1vo C1vp C1vq		11/18/24 11:15A		6		W	
		C1vr C1vs C1vt C1vu		11/18/24 11:15A		6		W	
		C1vv C1vw C1vx C1vy		11/18/24 11:15A		6		W	
		C1vz C1wa C1wb C1wc		11/18/24 11:15A		6		W	
		C1wd C1we C1wf C1wg		11/18/24 11:15A		6		W	
		C1wh C1wi C1wj C1wk		11/18/24 11:15A		6		W	
		C1wl C1wm C1wn C1wo		11/18/24 11:15A		6		W	
		C1wp C1wq C1wr C1ws		11/18/24 11:15A		6		W	
		C1wt C1wu C1wv C1ww		11/18/24 11:15A		6		W	
		C1wx C1wy C1wz C1xa		11/18/24 11:15A		6		W	
		C1xb C1xc C1xd C1xe		11/18/24 11:15A		6		W	
		C1xf C1xg C1xh C1xi		11/18/24 11:15A		6		W	
		C1xj C1xk C1xl C1xm		11/18/24 11:15A		6		W	



Environment Testing

Sacramento Sample
Receiving Notes (SSRN)

Loc: 320

117127

Tracking #

2819 3919 0014

Job

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / 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: 109 Corr Factor: (+/-) °CIce ☒ Wet ☒ Gel OtherCooler Custody Seal: 2501783Cooler ID: 1052Temp Observed 15 °C Corrected: 15 °CFrom Temp Blank ☒ Sandwich ☐ Sidewall ☐

Opening/Processing The Shipment

Cooler compromised/tampered with? Yes ☐ No ☒ NA ☐Cooler Temperature is acceptable? ☒ ☐ ☐Frozen samples show signs of thaw? ☐ ☐ ☒Initials FSH Date 11/19/24

Unpacking/Labeling The Samples

Containers are not broken or leaking? ☒ ☐ ☐Samples compromised/tampered with? ☐ ☒ ☐COC is complete w/o discrepancies ☒ ☐ ☐Sample custody seal? ☐ ☐ ☒Sample containers have legible labels? ☒ ☐ ☐Sample date/times are provided? ☒ ☐ ☐Appropriate containers are used? ☒ ☐ ☐Sample bottles are completely filled? ☒ ☐ ☐Sample preservatives verified? ☐ ☐ ☒Is the Field Sampler's name on COC? ☒ ☐ ☐Samples w/o discrepancies? 5 ☒ ☒ ☐Zero headspace? 1/2 inch ☐ ☐ ☒Alkalinity has no headspace? ☐ ☐ ☒Perchlorate has headspace?
(Methods 314, 331, 6850) ☐ ☐ ☒Multiphasic samples are not present? ☒ ☐ ☐

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

Initials DM Date: 11/19/24

Notes:

no time: date 11-191053 10 per line, 1 per container

Trizma Lot #(s):

Ammonium

Acetate Lot #(s):

Login Completion

Receipt Temperature on COC? Yes ☒ No ☐ NA ☐NCM Filed? ☒ ☐ ☐Samples received within hold time? ☒ ☐ ☐Log Release checked in TALS? ☒ ☐ ☐Initials SO Date 11/19/24



Environment Testing

Sacramento Sample
Receiving Notes (SSRN)Tracking # 2519 39139 0027
5/11/20Job 320-117127SO (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / 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 <u>604</u> Corr Factor (+/- <u>0.15</u>) °C Ice ☒ Wet ☒ Gel _____ Other _____ Cooler Custody Seal <u>2501782</u> Cooler ID <u>2062</u> Temp Observed: <u>1.2</u> °C Corrected: <u>1.2</u> °C From Temp Blank ☒ Sandwich ☐ Sidewall ☐ Opening/Processing The Shipment <table border="1"><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Cooler compromised/tampered with?</td><td>☐</td><td>☒</td><td>☐</td></tr><tr><td>Cooler Temperature is acceptable?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Frozen samples show signs of thaw?</td><td>☐</td><td>☐</td><td>☒</td></tr></tbody></table> Initials <u>SO</u> Date <u>11/20/14</u> Unpacking/Labeling The Samples <table border="1"><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Containers are not broken or leaking?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Samples compromised/tampered with?</td><td>☐</td><td>☒</td><td>☐</td></tr><tr><td>COC is complete w/o discrepancies</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Sample custody seal?</td><td>☐</td><td>☐</td><td>☒</td></tr><tr><td>Sample containers have legible labels?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Sample date/times are provided?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Appropriate containers are used?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Sample bottles are completely filled?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Sample preservatives verified?</td><td>☐</td><td>☐</td><td>☒</td></tr><tr><td>Is the Field Sampler's name on COC?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Samples w/o discrepancies?</td><td>☐</td><td>☒</td><td>☐</td></tr><tr><td>Zero headspace?*</td><td>☐</td><td>☐</td><td>☒</td></tr><tr><td>Alkalinity has no headspace?</td><td>☐</td><td>☐</td><td>☒</td></tr><tr><td>Perchlorate has headspace? (Methods 314, 331, 6850)</td><td>☐</td><td>☐</td><td>☒</td></tr><tr><td>Multiphasic samples are not present?</td><td>☒</td><td>☐</td><td>☐</td></tr></tbody></table> *Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4") Initials <u>SO</u> Date <u>11/20/14</u>		Yes	No	NA	Cooler compromised/tampered with?	☐	☒	☐	Cooler Temperature is acceptable?	☒	☐	☐	Frozen samples show signs of thaw?	☐	☐	☒		Yes	No	NA	Containers are not broken or leaking?	☒	☐	☐	Samples compromised/tampered with?	☐	☒	☐	COC is complete w/o discrepancies	☒	☐	☐	Sample custody seal?	☐	☐	☒	Sample containers have legible labels?	☒	☐	☐	Sample date/times are provided?	☒	☐	☐	Appropriate containers are used?	☒	☐	☐	Sample bottles are completely filled?	☒	☐	☐	Sample preservatives verified?	☐	☐	☒	Is the Field Sampler's name on COC?	☒	☐	☐	Samples w/o discrepancies?	☐	☒	☐	Zero headspace?*	☐	☐	☒	Alkalinity has no headspace?	☐	☐	☒	Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☒	Multiphasic samples are not present?	☒	☐	☐	Notes: <u>4, 6, 8, 9</u> Trizma Lot #(s) _____ Ammonium Acetate Lot #(s) _____ Login Completion <table border="1"><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Receipt Temperature on COC?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>NCM Filed?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Samples received within hold time?</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Log Release checked in TALS?</td><td>☒</td><td>☐</td><td>☐</td></tr></tbody></table> Initials <u>6</u> Date <u>4/20/14</u>		Yes	No	NA	Receipt Temperature on COC?	☒	☐	☐	NCM Filed?	☒	☐	☐	Samples received within hold time?	☒	☐	☐	Log Release checked in TALS?	☒	☐	☐
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