



ANALYTICAL REPORT

PREPARED FOR

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Generated 3/28/2023 5:14:05 PM

JOB DESCRIPTION

PFAS Pesticide Testing

JOB NUMBER

410-113812-1

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Job ID: 410-113812-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-113812-1

Receipt

The samples were received on 1/30/2023 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: 19713-217 (410-113812-1), 264-719 (410-113812-2), 69526-5-499 (410-113812-3), 100-896 (410-113812-4), 53883-419-59807 (410-113812-5), 62719-442 (410-113812-6), 239-2717 (410-113812-7), 9688-250-8845 (410-113812-8), 59807-15 (410-113812-9) and Water Blank (410-113812-10). The client was contacted, and the laboratory was instructed to use a sample collection time of 12:00 am.

PFAS

Method PFC_IDA: The sample injection standard peak areas in the following samples: 9688-250-8845 (410-113812-8) and 59807-15 (410-113812-9) are outside of the QC limits for the initial injection and within of the QC limits for the re-injection. The values here are from the initial injection of the sample. Both sets of data are reported.

Method PFC_IDA: The recovery for labeled isotope: 13C2 PFTeDA and d9-N-EtFOSE-M is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: 19713-217 (410-113812-1), 264-719 (410-113812-2), 69526-5-499 (410-113812-3), 62719-442 (410-113812-6), 9688-250-8845 (410-113812-8), 59807-15 (410-113812-9) and Water Blank (410-113812-10), the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) M2-8:2 FTS in the following sample: 9688-250-8845 (410-113812-8) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C3 PFBS and 13C5 PFPeA in the following sample: 59807-15 (410-113812-9) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

Method PFC_IDA: The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: 19713-217 (410-113812-1), 264-719 (410-113812-2), 69526-5-499 (410-113812-3), 62719-442 (410-113812-6), 9688-250-8845 (410-113812-8), 59807-15 (410-113812-9) and Water Blank (410-113812-10), the data is reported.

Method PFC_IDA: The recovery for labeled isotope: M2-8:2 FTS and d9-N-EtFOSE-M is outside the QC acceptance limits in the closing continuing calibration verification standard, biased high. Since the recovery for the labeled isotope is within QC limits in the following sample: 239-2717 (410-113812-7), the data is reported.

Method PFC_IDA: The recovery for target analyte: Perfluorooctadecanoic acid is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target Perfluorooctadecanoic acid is not detected in the following samples: 53883-419-59807 (410-113812-5) and 239-2717 (410-113812-7), the data is reported.

Method PFC_IDA: The recovery for target analyte: Perfluorooctadecanoic acid is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target Perfluorooctadecanoic acid is not detected in the following samples: 53883-419-59807 (410-113812-5) and 239-2717 (410-113812-7), the data is reported.

Method PFC_IDA: The recovery for labeled isotope: M2-8:2 FTS, M2-6:2 FTS, d3-NMeFOSAA, d5-NEtFOSAA and d9-N-EtFOSE-M is outside the QC acceptance limits in the closing continuing calibration verification standard since the failure is due to matrix of samples 100-896 (410-113812-4) and 53883-419-59807 (410-113812-5), the data is reported.

Case Narrative

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Job ID: 410-113812-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method PFC_IDA: The recovery for the labeled isotope(s) M2-8:2 FTS and d7-N-MeFOSE-M in the following sample: 100-896 (410-113812-4) are outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following sample: 100-896 (410-113812-4) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Method PFC_IDA: The sample injection standard peak areas in the following samples: 19713-217 (410-113812-1), 264-719 (410-113812-2) and 62719-442 (410-113812-6) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Method PFC_IDA: The recovery for labeled isotope: 13C2 PFTeDA and d9-N-EtFOSE-M is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: 19713-217 (410-113812-1), 264-719 (410-113812-2), 69526-5-499 (410-113812-3), 62719-442 (410-113812-6), 9688-250-8845 (410-113812-8), 59807-15 (410-113812-9) and Water Blank (410-113812-10), the data is reported.

Method PFC_IDA: The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: 19713-217 (410-113812-1), 264-719 (410-113812-2), 69526-5-499 (410-113812-3), 62719-442 (410-113812-6), 9688-250-8845 (410-113812-8), 59807-15 (410-113812-9) and Water Blank (410-113812-10), the data is reported.

Method PFC_IDA: The recovery for labeled isotope: d9-N-EtFOSE-M is outside the QC acceptance limits in the closing continuing calibration verification standard, biased high. Since the recovery for the labeled isotope is within QC limits in the following sample: 53883-419-59807 (410-113812-5), the data is reported.

Method PFC_IDA: The recovery for labeled isotope: M2-8:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard, biased high. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery in the closing continuing calibration verification standard labeled isotope(s) was within the QC acceptance limits in the following sample: 53883-419-59807 (410-113812-5), the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C3 PFBS, 13C4 PFBA and 13C5 PFPeA in the following sample: 53883-419-59807 (410-113812-5) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were within QC acceptance limits.

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

General Chemistry

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

Detection Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 19713-217

Lab Sample ID: 410-113812-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	510	J cn	1000	250	ng/L	1		537 IDA	Total/NA
Perfluoroheptanesulfonic acid	680	J I cn	1000	250	ng/L	1		537 IDA	Total/NA

Client Sample ID: 264-719

Lab Sample ID: 410-113812-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1500	J cn	2500	1000	ng/L	1		537 IDA	Total/NA

Client Sample ID: 69526-5-499

Lab Sample ID: 410-113812-3

No Detections.

Client Sample ID: 100-896

Lab Sample ID: 410-113812-4

No Detections.

Client Sample ID: 53883-419-59807

Lab Sample ID: 410-113812-5

No Detections.

Client Sample ID: 62719-442

Lab Sample ID: 410-113812-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	350	J I cn	1000	250	ng/L	1		537 IDA	Total/NA

Client Sample ID: 239-2717

Lab Sample ID: 410-113812-7

No Detections.

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

No Detections.

Client Sample ID: 59807-15

Lab Sample ID: 410-113812-9

No Detections.

Client Sample ID: Water Blank

Lab Sample ID: 410-113812-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 19713-217

Lab Sample ID: 410-113812-1

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450	cn	1000	450	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluoroheptanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorooctanoic acid	510	J cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorononanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorodecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorotridecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorotetradecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorobutanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorohexanesulfonic acid	<250	*+ *1 cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorooctanesulfonic acid	<500	cn	1000	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
NEtFOSAA	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
NMeFOSAA	<300	cn	1000	300	ng/L		02/06/23 11:36	02/22/23 21:13	1
10:2 FTS	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluoropentanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluoroheptanesulfonic acid	680	J I cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorononanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorodecanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorododecanesulfonic acid (PFDoS)	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorooctanesulfonamide	<350	cn	1000	350	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorohexadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorobutanoic acid	<1000	cn	2500	1000	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluoropentanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
NMeFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
NMeFOSA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
NEtFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
NEtFOSA	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
HFPODA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
9CI-PF3ONS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
11CI-PF3OUdS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluorododecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
4:2 Fluorotelomer sulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
Perfluoroundecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:13	1
6:2 Fluorotelomer sulfonic acid	<2100	cn	2500	2100	ng/L		02/06/23 11:36	02/22/23 21:13	1
8:2 Fluorotelomer sulfonic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	1326	*5+ cn	47 - 200				02/06/23 11:36	02/22/23 21:13	1
M2-8:2 FTS	190	cn	41 - 198				02/06/23 11:36	02/22/23 21:13	1
M2-6:2 FTS	488	*5+ cn	48 - 195				02/06/23 11:36	02/22/23 21:13	1
13C5 PFHxA	323	*5+ cn	42 - 165				02/06/23 11:36	02/22/23 21:13	1
13C4 PFHpA	341	*5+ cn	45 - 160				02/06/23 11:36	02/22/23 21:13	1
13C8 PFOA	65	cn	47 - 152				02/06/23 11:36	02/22/23 21:13	1
13C9 PFNA	49	cn	30 - 175				02/06/23 11:36	02/22/23 21:13	1
13C6 PFDA	59	cn	42 - 161				02/06/23 11:36	02/22/23 21:13	1
13C7 PFUnA	47	cn	24 - 168				02/06/23 11:36	02/22/23 21:13	1
13C2-PFDoDA	25	cn	14 - 168				02/06/23 11:36	02/22/23 21:13	1
13C2 PFTeDA	57	cn	10 - 171				02/06/23 11:36	02/22/23 21:13	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 19713-217

Lab Sample ID: 410-113812-1

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	89	cn	55 - 157	02/06/23 11:36	02/22/23 21:13	1
13C3 PFHxS	272	*5+ cn	44 - 159	02/06/23 11:36	02/22/23 21:13	1
13C8 PFOS	89	cn	50 - 153	02/06/23 11:36	02/22/23 21:13	1
d3-NMeFOSAA	37	cn	10 - 185	02/06/23 11:36	02/22/23 21:13	1
d5-NEtFOSAA	42	cn	20 - 191	02/06/23 11:36	02/22/23 21:13	1
13C8 FOSA	14	cn	10 - 156	02/06/23 11:36	02/22/23 21:13	1
13C4 PFBA	78	cn	55 - 147	02/06/23 11:36	02/22/23 21:13	1
13C5 PFPeA	65	cn	49 - 156	02/06/23 11:36	02/22/23 21:13	1
d7-N-MeFOSE-M	29	cn	10 - 155	02/06/23 11:36	02/22/23 21:13	1
d3-NMePFOSA	10	cn	10 - 128	02/06/23 11:36	02/22/23 21:13	1
d9-N-EtFOSE-M	25	cn	10 - 169	02/06/23 11:36	02/22/23 21:13	1
d5-NEtPFOSA	17	cn	10 - 128	02/06/23 11:36	02/22/23 21:13	1
13C3 HFPO-DA	179	*5+ cn	15 - 159	02/06/23 11:36	02/22/23 21:13	1

Client Sample ID: 264-719

Lab Sample ID: 410-113812-2

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450	cn	1000	450	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluoroheptanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorooctanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorononanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorodecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorotridecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorotetradecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorobutanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorohexanesulfonic acid	<250	*+ *1 cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorooctanesulfonic acid	<500	cn	1000	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
NEtFOSAA	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
NMeFOSAA	<300	cn	1000	300	ng/L		02/06/23 11:36	02/22/23 21:46	1
10:2 FTS	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluoropentanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluoroheptanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorononanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorodecanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorooctanesulfonamide	<350	cn	1000	350	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorohexadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorobutanoic acid	1500	J cn	2500	1000	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluoropentanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
NMeFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
NMeFOSA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
NEtFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
NEtFOSA	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1
HFPODA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 264-719

Lab Sample ID: 410-113812-2

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
9CI-PF3ONS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
11CI-PF3OUdS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluorododecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
4:2 Fluorotelomer sulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
Perfluoroundecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 21:46	1
6:2 Fluorotelomer sulfonic acid	<2100	cn	2500	2100	ng/L		02/06/23 11:36	02/22/23 21:46	1
8:2 Fluorotelomer sulfonic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 21:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	106	cn	47 - 200	02/06/23 11:36	02/22/23 21:46	1
M2-8:2 FTS	168	cn	41 - 198	02/06/23 11:36	02/22/23 21:46	1
M2-6:2 FTS	107	cn	48 - 195	02/06/23 11:36	02/22/23 21:46	1
13C5 PFHxA	59	cn	42 - 165	02/06/23 11:36	02/22/23 21:46	1
13C4 PFHpA	69	cn	45 - 160	02/06/23 11:36	02/22/23 21:46	1
13C8 PFOA	69	cn	47 - 152	02/06/23 11:36	02/22/23 21:46	1
13C9 PFNA	82	cn	30 - 175	02/06/23 11:36	02/22/23 21:46	1
13C6 PFDA	76	cn	42 - 161	02/06/23 11:36	02/22/23 21:46	1
13C7 PFUnA	81	cn	24 - 168	02/06/23 11:36	02/22/23 21:46	1
13C2-PFDoDA	75	cn	14 - 168	02/06/23 11:36	02/22/23 21:46	1
13C2 PFTeDA	67	cn	10 - 171	02/06/23 11:36	02/22/23 21:46	1
13C3 PFBS	561	*5+ cn	55 - 157	02/06/23 11:36	02/22/23 21:46	1
13C3 PFHxS	68	cn	44 - 159	02/06/23 11:36	02/22/23 21:46	1
13C8 PFOS	82	cn	50 - 153	02/06/23 11:36	02/22/23 21:46	1
d3-NMeFOSAA	80	cn	10 - 185	02/06/23 11:36	02/22/23 21:46	1
d5-NEtFOSAA	90	cn	20 - 191	02/06/23 11:36	02/22/23 21:46	1
13C8 FOSA	42	cn	10 - 156	02/06/23 11:36	02/22/23 21:46	1
13C4 PFBA	77	cn	55 - 147	02/06/23 11:36	02/22/23 21:46	1
13C5 PFPeA	1	*5- cn	49 - 156	02/06/23 11:36	02/22/23 21:46	1
d7-N-MeFOSE-M	31	cn	10 - 155	02/06/23 11:36	02/22/23 21:46	1
d3-NMePFOSA	30	cn	10 - 128	02/06/23 11:36	02/22/23 21:46	1
d9-N-EtFOSE-M	28	cn	10 - 169	02/06/23 11:36	02/22/23 21:46	1
d5-NEtPFOSA	71	cn	10 - 128	02/06/23 11:36	02/22/23 21:46	1
13C3 HFPO-DA	42	cn	15 - 159	02/06/23 11:36	02/22/23 21:46	1

Client Sample ID: 69526-5-499

Lab Sample ID: 410-113812-3

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450		1000	450	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorotridecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorohexanesulfonic acid	<250	*+ *1	1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 69526-5-499

Lab Sample ID: 410-113812-3

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
NEtFOSAA	<250		1500	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
NMeFOSAA	<300		1000	300	ng/L		02/06/23 11:36	02/22/23 21:58	1
10:2 FTS	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorooctadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
NMeFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
NMeFOSA	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
NEtFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
NEtFOSA	<500		2500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
HFPODA	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
9CI-PF3ONS	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
11CI-PF3OUdS	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 21:58	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/06/23 11:36	02/22/23 21:58	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 21:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	122		47 - 200				02/06/23 11:36	02/22/23 21:58	1
M2-8:2 FTS	129		41 - 198				02/06/23 11:36	02/22/23 21:58	1
M2-6:2 FTS	97		48 - 195				02/06/23 11:36	02/22/23 21:58	1
13C5 PFHxA	86		42 - 165				02/06/23 11:36	02/22/23 21:58	1
13C4 PFHpA	80		45 - 160				02/06/23 11:36	02/22/23 21:58	1
13C8 PFOA	79		47 - 152				02/06/23 11:36	02/22/23 21:58	1
13C9 PFNA	84		30 - 175				02/06/23 11:36	02/22/23 21:58	1
13C6 PFDA	82		42 - 161				02/06/23 11:36	02/22/23 21:58	1
13C7 PFUnA	87		24 - 168				02/06/23 11:36	02/22/23 21:58	1
13C2-PFDoDA	100		14 - 168				02/06/23 11:36	02/22/23 21:58	1
13C2 PFTeDA	123	cn	10 - 171				02/06/23 11:36	02/22/23 21:58	1
13C3 PFBS	93		55 - 157				02/06/23 11:36	02/22/23 21:58	1
13C3 PFHxS	87		44 - 159				02/06/23 11:36	02/22/23 21:58	1
13C8 PFOS	90		50 - 153				02/06/23 11:36	02/22/23 21:58	1
d3-NMeFOSAA	71		10 - 185				02/06/23 11:36	02/22/23 21:58	1
d5-NEtFOSAA	78		20 - 191				02/06/23 11:36	02/22/23 21:58	1
13C8 FOSA	64		10 - 156				02/06/23 11:36	02/22/23 21:58	1
13C4 PFBA	91		55 - 147				02/06/23 11:36	02/22/23 21:58	1
13C5 PFPeA	87		49 - 156				02/06/23 11:36	02/22/23 21:58	1
d7-N-MeFOSE-M	89		10 - 155				02/06/23 11:36	02/22/23 21:58	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 69526-5-499

Lab Sample ID: 410-113812-3

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	71		10 - 128	02/06/23 11:36	02/22/23 21:58	1
d9-N-EtFOSE-M	115	cn	10 - 169	02/06/23 11:36	02/22/23 21:58	1
d5-NEtPFOSA	77		10 - 128	02/06/23 11:36	02/22/23 21:58	1
13C3 HFPO-DA	48		15 - 159	02/06/23 11:36	02/22/23 21:58	1

Client Sample ID: 100-896

Lab Sample ID: 410-113812-4

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450	cn	1000	450	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluoroheptanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorooctanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorononanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorodecanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorotridecanoic acid	<250	*1 cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorotetradecanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorobutanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorohexanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorooctanesulfonic acid	<500	cn	1000	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
NEtFOSAA	<250	cn	1500	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
NMeFOSAA	<300	cn	1000	300	ng/L		02/07/23 10:14	02/15/23 01:14	1
10:2 FTS	<500	cn	2500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluoropentanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluoroheptanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorononanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorodecanesulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorododecanesulfonic acid (PFDoS)	<250	cn	1500	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorooctanesulfonamide	<350	cn	1000	350	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorohexadecanoic acid	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorobutanoic acid	<1000	cn	2500	1000	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluoropentanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
NMeFOSE	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
NMeFOSA	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
NEtFOSE	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
NEtFOSA	<500	cn	2500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
HFPODA	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
9Cl-PF3ONS	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
11Cl-PF3OUdS	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluorododecanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
4:2 Fluorotelomer sulfonic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
Perfluoroundecanoic acid	<250	cn	1000	250	ng/L		02/07/23 10:14	02/15/23 01:14	1
6:2 Fluorotelomer sulfonic acid	<2100	cn	2500	2100	ng/L		02/07/23 10:14	02/15/23 01:14	1
8:2 Fluorotelomer sulfonic acid	<500	cn	1500	500	ng/L		02/07/23 10:14	02/15/23 01:14	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 100-896

Date Collected: 01/27/23 00:00

Date Received: 01/30/23 12:15

Lab Sample ID: 410-113812-4

Matrix: Water

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-4:2 FTS	102	cn	47 - 200	02/07/23 10:14	02/15/23 01:14	1
M2-8:2 FTS	242	*5+ cn	41 - 198	02/07/23 10:14	02/15/23 01:14	1
M2-6:2 FTS	145	cn	48 - 195	02/07/23 10:14	02/15/23 01:14	1
13C5 PFHxA	66	cn	42 - 165	02/07/23 10:14	02/15/23 01:14	1
13C4 PFHpA	77	cn	45 - 160	02/07/23 10:14	02/15/23 01:14	1
13C8 PFOA	82	cn	47 - 152	02/07/23 10:14	02/15/23 01:14	1
13C9 PFNA	118	cn	30 - 175	02/07/23 10:14	02/15/23 01:14	1
13C6 PFDA	72	cn	42 - 161	02/07/23 10:14	02/15/23 01:14	1
13C7 PFUnA	65	cn	24 - 168	02/07/23 10:14	02/15/23 01:14	1
13C2-PFDoDA	29	cn	14 - 168	02/07/23 10:14	02/15/23 01:14	1
13C2 PFTeDA	44	cn	10 - 171	02/07/23 10:14	02/15/23 01:14	1
13C3 PFBS	68	cn	55 - 157	02/07/23 10:14	02/15/23 01:14	1
13C3 PFHxS	62	cn	44 - 159	02/07/23 10:14	02/15/23 01:14	1
13C8 PFOS	82	cn	50 - 153	02/07/23 10:14	02/15/23 01:14	1
d3-NMeFOSAA	157	cn	10 - 185	02/07/23 10:14	02/15/23 01:14	1
d5-NEtFOSAA	147	cn	20 - 191	02/07/23 10:14	02/15/23 01:14	1
13C8 FOSA	45	cn	10 - 156	02/07/23 10:14	02/15/23 01:14	1
13C4 PFBA	85	cn	55 - 147	02/07/23 10:14	02/15/23 01:14	1
13C5 PFPeA	90	cn	49 - 156	02/07/23 10:14	02/15/23 01:14	1
d7-N-MeFOSE-M	8	*5- cn	10 - 155	02/07/23 10:14	02/15/23 01:14	1
d3-NMePFOSA	14	cn	10 - 128	02/07/23 10:14	02/15/23 01:14	1
d9-N-EtFOSE-M	14	cn	10 - 169	02/07/23 10:14	02/15/23 01:14	1
d5-NEtPFOSA	24	cn	10 - 128	02/07/23 10:14	02/15/23 01:14	1
13C3 HFPO-DA	66	cn	15 - 159	02/07/23 10:14	02/15/23 01:14	1

Client Sample ID: 53883-419-59807

Date Collected: 01/27/23 00:00

Date Received: 01/30/23 12:15

Lab Sample ID: 410-113812-5

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorohexanoic acid	<450		1000	450	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorotridecanoic acid	<250	*1	1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorohexanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
NEtFOSAA	<250		1500	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
NMeFOSAA	<300		1000	300	ng/L		02/07/23 10:14	02/11/23 23:54	1
10:2 FTS	<500		2500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/07/23 10:14	02/11/23 23:54	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 53883-419-59807

Lab Sample ID: 410-113812-5

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
NMeFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
NMeFOSA	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
NEtFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
NEtFOSA	<500		2500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
HFPODA	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
9Cl-PF3ONS	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
11Cl-PF3OUdS	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 23:54	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/07/23 10:14	02/11/23 23:54	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 23:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	280	*5+	47 - 200				02/07/23 10:14	02/11/23 23:54	1
M2-8:2 FTS	407	*5+ cn	41 - 198				02/07/23 10:14	02/11/23 23:54	1
M2-6:2 FTS	308	*5+ cn	48 - 195				02/07/23 10:14	02/11/23 23:54	1
13C5 PFHxA	75		42 - 165				02/07/23 10:14	02/11/23 23:54	1
13C4 PFHpA	103		45 - 160				02/07/23 10:14	02/11/23 23:54	1
13C8 PFOA	85		47 - 152				02/07/23 10:14	02/11/23 23:54	1
13C9 PFNA	119		30 - 175				02/07/23 10:14	02/11/23 23:54	1
13C6 PFDA	95		42 - 161				02/07/23 10:14	02/11/23 23:54	1
13C7 PFUnA	34		24 - 168				02/07/23 10:14	02/11/23 23:54	1
13C2-PFDoDA	134		14 - 168				02/07/23 10:14	02/11/23 23:54	1
13C2 PFTeDA	189	*5+	10 - 171				02/07/23 10:14	02/11/23 23:54	1
13C3 PFBS	45	*5- cn	55 - 157				02/07/23 10:14	02/11/23 23:54	1
13C3 PFHxS	106		44 - 159				02/07/23 10:14	02/11/23 23:54	1
13C8 PFOS	104		50 - 153				02/07/23 10:14	02/11/23 23:54	1
d3-NMeFOSAA	251	*5+ cn	10 - 185				02/07/23 10:14	02/11/23 23:54	1
d5-NEtFOSAA	29	cn	20 - 191				02/07/23 10:14	02/11/23 23:54	1
13C8 FOSA	85		10 - 156				02/07/23 10:14	02/11/23 23:54	1
13C4 PFBA	15	*5- cn	55 - 147				02/07/23 10:14	02/11/23 23:54	1
13C5 PFPeA	46	*5- cn	49 - 156				02/07/23 10:14	02/11/23 23:54	1
d7-N-MeFOSE-M	116		10 - 155				02/07/23 10:14	02/11/23 23:54	1
d3-NMePFOSA	99		10 - 128				02/07/23 10:14	02/11/23 23:54	1
d9-N-EtFOSE-M	123	cn	10 - 169				02/07/23 10:14	02/11/23 23:54	1
d5-NEtPFOSA	120		10 - 128				02/07/23 10:14	02/11/23 23:54	1
13C3 HFPO-DA	55		15 - 159				02/07/23 10:14	02/11/23 23:54	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 62719-442

Lab Sample ID: 410-113812-6

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450	cn	1000	450	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluoroheptanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorooctanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorononanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorodecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorotridecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorotetradecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorobutanesulfonic acid	350	J I cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorohexanesulfonic acid	<250	*+ *1 cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorooctanesulfonic acid	<500	cn	1000	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
NETFOSAA	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
NMeFOSAA	<300	cn	1000	300	ng/L		02/06/23 11:36	02/22/23 22:09	1
10:2 FTS	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluoropentanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluoroheptanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorononanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorodecanesulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorododecanesulfonic acid (PFDoS)	<250	cn	1500	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorooctanesulfonamide	<350	cn	1000	350	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorohexadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorobutanoic acid	<1000	cn	2500	1000	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluoropentanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
NMeFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
NMeFOSA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
NETFOSE	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
NETFOSA	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
HFPODA	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
9CI-PF3ONS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
11CI-PF3OUdS	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluorododecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
4:2 Fluorotelomer sulfonic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
Perfluoroundecanoic acid	<250	cn	1000	250	ng/L		02/06/23 11:36	02/22/23 22:09	1
6:2 Fluorotelomer sulfonic acid	<2100	cn	2500	2100	ng/L		02/06/23 11:36	02/22/23 22:09	1
8:2 Fluorotelomer sulfonic acid	<500	cn	1500	500	ng/L		02/06/23 11:36	02/22/23 22:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	7035	*5+ cn	47 - 200				02/06/23 11:36	02/22/23 22:09	1
M2-8:2 FTS	163	cn	41 - 198				02/06/23 11:36	02/22/23 22:09	1
M2-6:2 FTS	233	*5+ cn	48 - 195				02/06/23 11:36	02/22/23 22:09	1
13C5 PFHxA	2569	*5+ cn	42 - 165				02/06/23 11:36	02/22/23 22:09	1
13C4 PFHpA	1194	*5+ cn	45 - 160				02/06/23 11:36	02/22/23 22:09	1
13C8 PFOA	68	cn	47 - 152				02/06/23 11:36	02/22/23 22:09	1
13C9 PFNA	34	cn	30 - 175				02/06/23 11:36	02/22/23 22:09	1
13C6 PFDA	74	cn	42 - 161				02/06/23 11:36	02/22/23 22:09	1
13C7 PFUnA	90	cn	24 - 168				02/06/23 11:36	02/22/23 22:09	1
13C2-PFDoDA	117	cn	14 - 168				02/06/23 11:36	02/22/23 22:09	1
13C2 PFTeDA	68	cn	10 - 171				02/06/23 11:36	02/22/23 22:09	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 62719-442

Lab Sample ID: 410-113812-6

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	128	cn	55 - 157	02/06/23 11:36	02/22/23 22:09	1
13C3 PFHxS	2670	*5+ cn	44 - 159	02/06/23 11:36	02/22/23 22:09	1
13C8 PFOS	76	cn	50 - 153	02/06/23 11:36	02/22/23 22:09	1
d3-NMeFOSAA	71	cn	10 - 185	02/06/23 11:36	02/22/23 22:09	1
d5-NEtFOSAA	112	cn	20 - 191	02/06/23 11:36	02/22/23 22:09	1
13C8 FOSA	73	cn	10 - 156	02/06/23 11:36	02/22/23 22:09	1
13C4 PFBA	83	cn	55 - 147	02/06/23 11:36	02/22/23 22:09	1
13C5 PFPeA	104	cn	49 - 156	02/06/23 11:36	02/22/23 22:09	1
d7-N-MeFOSE-M	92	cn	10 - 155	02/06/23 11:36	02/22/23 22:09	1
d3-NMePFOSA	81	cn	10 - 128	02/06/23 11:36	02/22/23 22:09	1
d9-N-EtFOSE-M	137	cn	10 - 169	02/06/23 11:36	02/22/23 22:09	1
d5-NEtPFOSA	78	cn	10 - 128	02/06/23 11:36	02/22/23 22:09	1
13C3 HFPO-DA	2364	*5+ cn	15 - 159	02/06/23 11:36	02/22/23 22:09	1

Client Sample ID: 239-2717

Lab Sample ID: 410-113812-7

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450		1000	450	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorotridecanoic acid	<250	*1	1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorohexanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
NEtFOSAA	<250		1500	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
NMeFOSAA	<300		1000	300	ng/L		02/07/23 10:14	02/12/23 00:05	1
10:2 FTS	<500		2500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorooctadecanoic acid	<500	cn	1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
NMeFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
NMeFOSA	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
NEtFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
NEtFOSA	<500		2500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
HFPODA	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 239-2717

Lab Sample ID: 410-113812-7

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
9CI-PF3ONS	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
11CI-PF3OUdS	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/12/23 00:05	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/07/23 10:14	02/12/23 00:05	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/07/23 10:14	02/12/23 00:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	199		47 - 200				02/07/23 10:14	02/12/23 00:05	1
M2-8:2 FTS	172	cn	41 - 198				02/07/23 10:14	02/12/23 00:05	1
M2-6:2 FTS	178		48 - 195				02/07/23 10:14	02/12/23 00:05	1
13C5 PFHxA	74		42 - 165				02/07/23 10:14	02/12/23 00:05	1
13C4 PFHpA	105		45 - 160				02/07/23 10:14	02/12/23 00:05	1
13C8 PFOA	86		47 - 152				02/07/23 10:14	02/12/23 00:05	1
13C9 PFNA	120		30 - 175				02/07/23 10:14	02/12/23 00:05	1
13C6 PFDA	84		42 - 161				02/07/23 10:14	02/12/23 00:05	1
13C7 PFUnA	77		24 - 168				02/07/23 10:14	02/12/23 00:05	1
13C2-PFDoDA	45		14 - 168				02/07/23 10:14	02/12/23 00:05	1
13C2 PFTeDA	150		10 - 171				02/07/23 10:14	02/12/23 00:05	1
13C3 PFBS	76		55 - 157				02/07/23 10:14	02/12/23 00:05	1
13C3 PFHxS	88		44 - 159				02/07/23 10:14	02/12/23 00:05	1
13C8 PFOS	108		50 - 153				02/07/23 10:14	02/12/23 00:05	1
d3-NMeFOSAA	76		10 - 185				02/07/23 10:14	02/12/23 00:05	1
d5-NEtFOSAA	95		20 - 191				02/07/23 10:14	02/12/23 00:05	1
13C8 FOSA	55		10 - 156				02/07/23 10:14	02/12/23 00:05	1
13C4 PFBA	98		55 - 147				02/07/23 10:14	02/12/23 00:05	1
13C5 PFPeA	98		49 - 156				02/07/23 10:14	02/12/23 00:05	1
d7-N-MeFOSE-M	42		10 - 155				02/07/23 10:14	02/12/23 00:05	1
d3-NMePFOSA	37		10 - 128				02/07/23 10:14	02/12/23 00:05	1
d9-N-EtFOSE-M	86	cn	10 - 169				02/07/23 10:14	02/12/23 00:05	1
d5-NEtPFOSA	65		10 - 128				02/07/23 10:14	02/12/23 00:05	1
13C3 HFPO-DA	63		15 - 159				02/07/23 10:14	02/12/23 00:05	1

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluoroheptanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorooctanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorononanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorodecanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorotridecanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorotetradecanoic acid	<0.22	cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorobutanesulfonic acid	<0.43	cn	2.2	0.43	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1
Perfluorohexanesulfonic acid	<0.22	*+ *1 cn	0.65	0.22	ng/g	☆	02/06/23 11:36	02/22/23 22:20	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NEtFOSAA	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NMeFOSAA	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
10:2 FTS	<0.65	cn	2.2	0.65	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluoropentanesulfonic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluoroheptanesulfonic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorononanesulfonic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorodecanesulfonic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorooctanesulfonamide	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorohexadecanoic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorooctadecanoic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorobutanoic acid	<0.87	cn	2.2	0.87	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluoropentanoic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NMeFOSE	<0.54	cn	2.2	0.54	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NMeFOSA	<0.54	cn	2.2	0.54	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NEtFOSE	<0.54	cn	2.2	0.54	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
NEtFOSA	<0.54	cn	2.2	0.54	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
HFPODA	<1.1	cn	2.2	1.1	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.22	cn	3.3	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
9CI-PF3ONS	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
11CI-PF3OUdS	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluorododecanoic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
4:2 Fluorotelomer sulfonic acid	<0.65	cn	2.2	0.65	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Perfluoroundecanoic acid	<0.22	cn	0.65	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
6:2 Fluorotelomer sulfonic acid	<0.65	cn	2.2	0.65	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
8:2 Fluorotelomer sulfonic acid	<0.65	cn	3.3	0.65	ng/g	✱	02/06/23 11:36	02/22/23 22:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	114	cn	10 - 200				02/06/23 11:36	02/22/23 22:20	1
M2-8:2 FTS	205	*5+ cn	15 - 200				02/06/23 11:36	02/22/23 22:20	1
M2-6:2 FTS	185	cn	10 - 200				02/06/23 11:36	02/22/23 22:20	1
13C5 PFHxA	66	cn	10 - 174				02/06/23 11:36	02/22/23 22:20	1
13C4 PFHpA	70	cn	10 - 178				02/06/23 11:36	02/22/23 22:20	1
13C8 PFOA	75	cn	26 - 159				02/06/23 11:36	02/22/23 22:20	1
13C9 PFNA	82	cn	26 - 165				02/06/23 11:36	02/22/23 22:20	1
13C6 PFDA	79	cn	26 - 161				02/06/23 11:36	02/22/23 22:20	1
13C7 PFUnA	79	cn	12 - 173				02/06/23 11:36	02/22/23 22:20	1
13C2-PFDoDA	86	cn	11 - 166				02/06/23 11:36	02/22/23 22:20	1
13C2 PFTeDA	80	cn	10 - 169				02/06/23 11:36	02/22/23 22:20	1
13C3 PFBS	100	cn	27 - 179				02/06/23 11:36	02/22/23 22:20	1
13C3 PFHxS	75	cn	24 - 171				02/06/23 11:36	02/22/23 22:20	1
13C8 PFOS	91	cn	41 - 154				02/06/23 11:36	02/22/23 22:20	1
d3-NMeFOSAA	67	cn	10 - 178				02/06/23 11:36	02/22/23 22:20	1
d5-NEtFOSAA	89	cn	10 - 193				02/06/23 11:36	02/22/23 22:20	1
13C8 FOSA	57	cn	14 - 163				02/06/23 11:36	02/22/23 22:20	1
13C4 PFBA	84	cn	28 - 153				02/06/23 11:36	02/22/23 22:20	1
13C5 PFPeA	87	cn	24 - 161				02/06/23 11:36	02/22/23 22:20	1
d7-N-MeFOSE-M	64	cn	10 - 179				02/06/23 11:36	02/22/23 22:20	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 92.1

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	47	cn	10 - 175	02/06/23 11:36	02/22/23 22:20	1
d9-N-EtFOSE-M	78	cn	10 - 185	02/06/23 11:36	02/22/23 22:20	1
d5-NEtPFOSA	56	cn	10 - 180	02/06/23 11:36	02/22/23 22:20	1
13C3 HFPO-DA	43	cn	10 - 169	02/06/23 11:36	02/22/23 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9		1.0	1.0	%			02/01/23 07:18	1

Client Sample ID: 59807-15

Lab Sample ID: 410-113812-9

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 90.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluoroheptanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorooctanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorononanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorodecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorotridecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorotetradecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorobutanesulfonic acid	<0.44	cn	2.2	0.44	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorohexanesulfonic acid	<0.22	*+ *1 cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorooctanesulfonic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NEtFOSAA	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NMeFOSAA	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
10:2 FTS	<0.66	cn	2.2	0.66	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluoropentanesulfonic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluoroheptanesulfonic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorononanesulfonic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorodecanesulfonic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorooctanesulfonamide	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorohexadecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorooctadecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorobutanoic acid	<0.88	cn	2.2	0.88	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluoropentanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NMeFOSE	<0.55	cn	2.2	0.55	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NMeFOSA	<0.55	cn	2.2	0.55	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NEtFOSE	<0.55	cn	2.2	0.55	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
NEtFOSA	<0.55	cn	2.2	0.55	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
HFPODA	<1.1	cn	2.2	1.1	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.22	cn	3.3	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
9Cl-PF3ONS	<0.22	cn	2.2	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
11Cl-PF3OUdS	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluorododecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
4:2 Fluorotelomer sulfonic acid	<0.66	cn	2.2	0.66	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1
Perfluoroundecanoic acid	<0.22	cn	0.66	0.22	ng/g	✱	02/06/23 11:36	02/22/23 22:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 59807-15

Lab Sample ID: 410-113812-9

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 90.5

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	<0.66	cn	2.2	0.66	ng/g	☼	02/06/23 11:36	02/22/23 22:31	1
8:2 Fluorotelomer sulfonic acid	<0.66	cn	3.3	0.66	ng/g	☼	02/06/23 11:36	02/22/23 22:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	160	cn	10 - 200				02/06/23 11:36	02/22/23 22:31	1
M2-8:2 FTS	111	cn	15 - 200				02/06/23 11:36	02/22/23 22:31	1
M2-6:2 FTS	133	cn	10 - 200				02/06/23 11:36	02/22/23 22:31	1
13C5 PFHxA	72	cn	10 - 174				02/06/23 11:36	02/22/23 22:31	1
13C4 PFHpA	78	cn	10 - 178				02/06/23 11:36	02/22/23 22:31	1
13C8 PFOA	75	cn	26 - 159				02/06/23 11:36	02/22/23 22:31	1
13C9 PFNA	107	cn	26 - 165				02/06/23 11:36	02/22/23 22:31	1
13C6 PFDA	82	cn	26 - 161				02/06/23 11:36	02/22/23 22:31	1
13C7 PFUnA	128	cn	12 - 173				02/06/23 11:36	02/22/23 22:31	1
13C2-PFDoDA	90	cn	11 - 166				02/06/23 11:36	02/22/23 22:31	1
13C2 PFTeDA	124	cn	10 - 169				02/06/23 11:36	02/22/23 22:31	1
13C3 PFBS	732	*5+ cn	27 - 179				02/06/23 11:36	02/22/23 22:31	1
13C3 PFHxS	81	cn	24 - 171				02/06/23 11:36	02/22/23 22:31	1
13C8 PFOS	92	cn	41 - 154				02/06/23 11:36	02/22/23 22:31	1
d3-NMeFOSAA	74	cn	10 - 178				02/06/23 11:36	02/22/23 22:31	1
d5-NEtFOSAA	168	cn	10 - 193				02/06/23 11:36	02/22/23 22:31	1
13C8 FOSA	58	cn	14 - 163				02/06/23 11:36	02/22/23 22:31	1
13C4 PFBA	83	cn	28 - 153				02/06/23 11:36	02/22/23 22:31	1
13C5 PFPeA	679	*5+ cn	24 - 161				02/06/23 11:36	02/22/23 22:31	1
d7-N-MeFOSE-M	122	cn	10 - 179				02/06/23 11:36	02/22/23 22:31	1
d3-NMePFOSA	84	cn	10 - 175				02/06/23 11:36	02/22/23 22:31	1
d9-N-EtFOSE-M	103	cn	10 - 185				02/06/23 11:36	02/22/23 22:31	1
d5-NEtPFOSA	69	cn	10 - 180				02/06/23 11:36	02/22/23 22:31	1
13C3 HFPO-DA	36	cn	10 - 169				02/06/23 11:36	02/22/23 22:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5		1.0	1.0	%			02/01/23 07:18	1

Client Sample ID: Water Blank

Lab Sample ID: 410-113812-10

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<450		1000	450	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorotridecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorohexanesulfonic acid	<250	*+ *1	1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
NEtFOSAA	<250		1500	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
NMeFOSAA	<300		1000	300	ng/L		02/06/23 11:36	02/22/23 22:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: Water Blank

Lab Sample ID: 410-113812-10

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	<500	cn	2500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorooctadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
NMeFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
NMeFOSA	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
NEtFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
NEtFOSA	<500		2500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
HFPODA	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
9CI-PF3ONS	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
11CI-PF3OUdS	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/22/23 22:42	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/06/23 11:36	02/22/23 22:42	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/06/23 11:36	02/22/23 22:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	85		47 - 200	02/06/23 11:36	02/22/23 22:42	1
M2-8:2 FTS	138		41 - 198	02/06/23 11:36	02/22/23 22:42	1
M2-6:2 FTS	95		48 - 195	02/06/23 11:36	02/22/23 22:42	1
13C5 PFHxA	81		42 - 165	02/06/23 11:36	02/22/23 22:42	1
13C4 PFHpA	85		45 - 160	02/06/23 11:36	02/22/23 22:42	1
13C8 PFOA	80		47 - 152	02/06/23 11:36	02/22/23 22:42	1
13C9 PFNA	84		30 - 175	02/06/23 11:36	02/22/23 22:42	1
13C6 PFDA	84		42 - 161	02/06/23 11:36	02/22/23 22:42	1
13C7 PFUnA	96		24 - 168	02/06/23 11:36	02/22/23 22:42	1
13C2-PFDoDA	106		14 - 168	02/06/23 11:36	02/22/23 22:42	1
13C2 PFTeDA	141	cn	10 - 171	02/06/23 11:36	02/22/23 22:42	1
13C3 PFBS	95		55 - 157	02/06/23 11:36	02/22/23 22:42	1
13C3 PFHxS	94		44 - 159	02/06/23 11:36	02/22/23 22:42	1
13C8 PFOS	93		50 - 153	02/06/23 11:36	02/22/23 22:42	1
d3-NMeFOSAA	89		10 - 185	02/06/23 11:36	02/22/23 22:42	1
d5-NEtFOSAA	112		20 - 191	02/06/23 11:36	02/22/23 22:42	1
13C8 FOSA	59		10 - 156	02/06/23 11:36	02/22/23 22:42	1
13C4 PFBA	92		55 - 147	02/06/23 11:36	02/22/23 22:42	1
13C5 PFPeA	94		49 - 156	02/06/23 11:36	02/22/23 22:42	1
d7-N-MeFOSE-M	66		10 - 155	02/06/23 11:36	02/22/23 22:42	1
d3-NMePFOSA	35		10 - 128	02/06/23 11:36	02/22/23 22:42	1
d9-N-EtFOSE-M	81	cn	10 - 169	02/06/23 11:36	02/22/23 22:42	1
d5-NEtPFOSA	44		10 - 128	02/06/23 11:36	02/22/23 22:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: Water Blank

Lab Sample ID: 410-113812-10

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C3 HFPO-DA	66		15 - 159	02/06/23 11:36	02/22/23 22:42	1

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Isotope Dilution Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)	
410-113812-8	9688-250-8845	114 cn	205 *5+ cn	185 cn	66 cn	70 cn	75 cn	82 cn	79 cn	
410-113812-9	59807-15	160 cn	111 cn	133 cn	72 cn	78 cn	75 cn	107 cn	82 cn	

		Percent Isotope Dilution Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)	
410-113812-8	9688-250-8845	79 cn	86 cn	80 cn	100 cn	75 cn	91 cn	67 cn	89 cn	
410-113812-9	59807-15	128 cn	90 cn	124 cn	732 *5+ cn	81 cn	92 cn	74 cn	168 cn	

		Percent Isotope Dilution Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)	
410-113812-8	9688-250-8845	57 cn	84 cn	87 cn	64 cn	47 cn	78 cn	56 cn	43 cn	
410-113812-9	59807-15	58 cn	83 cn	679 *5+ cn	122 cn	84 cn	103 cn	69 cn	36 cn	

Surrogate Legend

- M242FTS = M2-4:2 FTS
- M282FTS = M2-8:2 FTS
- M262FTS = M2-6:2 FTS
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoDA = 13C2-PFDoDA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- PFOSA = 13C8 FOSA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- NMFM = d7-N-MeFOSE-M
- d3NMFSA = d3-NMePFOSA
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	M242FTS (47-200)	M282FTS (41-198)	M262FTS (48-195)	13C5PHA (42-165)	C4PFHA (45-160)	C8PFOA (47-152)	C9PFNA (30-175)	C6PFDA (42-161)	
LCS 410-341867/2-B	Lab Control Sample	82	98	97	88	88	87	94	81	
LCSD 410-341867/3-B	Lab Control Sample Dup	87	111	101	90	90	91	93	85	
MB 410-341867/1-B	Method Blank	87	106	103	88	93	87	91	81	

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (24-168)	PFDODA (14-168)	PFTDA (10-171)	C3PFBS (55-157)	C3PFHS (44-159)	C8PFOS (50-153)	d3NMFOS (10-185)	d5NEFOS (20-191)
LCS 410-341867/2-B	Lab Control Sample	83	80	88	81	82	92	76	75
LCSD 410-341867/3-B	Lab Control Sample Dup	85	82	88	88	87	91	74	81
MB 410-341867/1-B	Method Blank	80	78	88	81	81	88	69	74

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (10-156)	PFBA (55-147)	PFPeA (49-156)	NMFM (10-155)	d3NMFSA (10-128)	NEFM (10-169)	d5NPFSA (10-128)	HFPODA (15-159)
LCS 410-341867/2-B	Lab Control Sample	61	90	85	56	34	58	40	61
LCSD 410-341867/3-B	Lab Control Sample Dup	62	96	91	57	36	58	41	71
MB 410-341867/1-B	Method Blank	55	91	86	47	27	53	33	59

Surrogate Legend

- M242FTS = M2-4:2 FTS
- M282FTS = M2-8:2 FTS
- M262FTS = M2-6:2 FTS
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDODA = 13C2-PFDoDA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- PFOSA = 13C8 FOSA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- NMFM = d7-N-MeFOSE-M
- d3NMFSA = d3-NMePFOSA
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- HFPODA = 13C3 HFPO-DA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (47-200)	M282FTS (41-198)	M262FTS (48-195)	13C5PHA (42-165)	C4PFHA (45-160)	C8PFOA (47-152)	C9PFNA (30-175)	C6PFDA (42-161)
410-113812-1	19713-217	1326 *5+ cn	190 cn	488 *5+ cn	323 *5+ cn	341 *5+ cn	65 cn	49 cn	59 cn
410-113812-2	264-719	106 cn	168 cn	107 cn	59 cn	69 cn	69 cn	82 cn	76 cn
410-113812-3	69526-5-499	122	129	97	86	80	79	84	82
410-113812-4	100-896	102 cn	242 *5+ cn	145 cn	66 cn	77 cn	82 cn	118 cn	72 cn
410-113812-5	53883-419-59807	280 *5+	407 *5+ cn	308 *5+ cn	75	103	85	119	95
410-113812-6	62719-442	7035 *5+ cn	163 cn	233 *5+ cn	2569 *5+ cn	1194 *5+ cn	68 cn	34 cn	74 cn

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (47-200)	M282FTS (41-198)	M262FTS (48-195)	13C5PHA (42-165)	C4PFHA (45-160)	C8PFOA (47-152)	C9PFNA (30-175)	C6PFDA (42-161)
410-113812-7	239-2717	199	172 cn	178	74	105	86	120	84
410-113812-10	Water Blank	85	138	95	81	85	80	84	84
LCS 410-342254/2-B	Lab Control Sample	97	109	106	98	102	99	101	95
LCSD 410-342254/3-B	Lab Control Sample Dup	98	118	115	107	108	104	103	95
MB 410-342254/1-B	Method Blank	89	110	101	98	100	97	104	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (24-168)	PFDODA (14-168)	PFTDA (10-171)	C3PFBS (55-157)	C3PFHS (44-159)	C8PFOS (50-153)	d3NMFOS (10-185)	d5NEFOS (20-191)
410-113812-1	19713-217	47 cn	25 cn	57 cn	89 cn	272 *5+ cn	89 cn	37 cn	42 cn
410-113812-2	264-719	81 cn	75 cn	67 cn	561 *5+ cn	68 cn	82 cn	80 cn	90 cn
410-113812-3	69526-5-499	87	100	123 cn	93	87	90	71	78
410-113812-4	100-896	65 cn	29 cn	44 cn	68 cn	62 cn	82 cn	157 cn	147 cn
410-113812-5	53883-419-59807	34	134	189 *5+	45 *5- cn	106	104	251 *5+ cn	29 cn
410-113812-6	62719-442	90 cn	117 cn	68 cn	128 cn	2670 *5+ cn	76 cn	71 cn	112 cn
410-113812-7	239-2717	77	45	150	76	88	108	76	95
410-113812-10	Water Blank	96	106	141 cn	95	94	93	89	112
LCS 410-342254/2-B	Lab Control Sample	94	90	87	92	97	100	90	94
LCSD 410-342254/3-B	Lab Control Sample Dup	92	89	104	94	102	100	90	91
MB 410-342254/1-B	Method Blank	92	82	88	90	94	101	84	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-156)	PFBA (55-147)	PFPeA (49-156)	NMFm (10-155)	d3NMFSA (10-128)	NEFM (10-169)	d5NPFSA (10-128)	HFPODA (15-159)
410-113812-1	19713-217	14 cn	78 cn	65 cn	29 cn	10 cn	25 cn	17 cn	179 *5+ cn
410-113812-2	264-719	42 cn	77 cn	1 *5- cn	31 cn	30 cn	28 cn	71 cn	42 cn
410-113812-3	69526-5-499	64	91	87	89	71	115 cn	77	48
410-113812-4	100-896	45 cn	85 cn	90 cn	8 *5- cn	14 cn	14 cn	24 cn	66 cn
410-113812-5	53883-419-59807	85	15 *5- cn	46 *5- cn	116	99	123 cn	120	55
410-113812-6	62719-442	73 cn	83 cn	104 cn	92 cn	81 cn	137 cn	78 cn	2364 *5+ cn
410-113812-7	239-2717	55	98	98	42	37	86 cn	65	63
410-113812-10	Water Blank	59	92	94	66	35	81 cn	44	66
LCS 410-342254/2-B	Lab Control Sample	80	94	96	57	47	60	55	99
LCSD 410-342254/3-B	Lab Control Sample Dup	81	103	99	57	48	57	50	97
MB 410-342254/1-B	Method Blank	77	97	92	56	44	57	47	108

Surrogate Legend

- M242FTS = M2-4:2 FTS
- M282FTS = M2-8:2 FTS
- M262FTS = M2-6:2 FTS
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDODA = 13C2-PFDODA

Isotope Dilution Summary

Job ID: 410-113812-1

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFm = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

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QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-341867/1-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 341867

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<450		1000	450	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorotridecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorohexanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
NEtFOSAA	<250		1500	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
NMeFOSAA	<300		1000	300	ng/L		02/06/23 11:36	02/12/23 00:27	1
10:2 FTS	<500		2500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorooctadecanoic acid	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
NMeFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
NMeFOSA	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
NEtFOSE	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
NEtFOSA	<500		2500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
HFPODA	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
9CI-PF3ONS	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
11CI-PF3OUdS	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/06/23 11:36	02/12/23 00:27	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/06/23 11:36	02/12/23 00:27	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/06/23 11:36	02/12/23 00:27	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	87		47 - 200	02/06/23 11:36	02/12/23 00:27	1
M2-8:2 FTS	106		41 - 198	02/06/23 11:36	02/12/23 00:27	1
M2-6:2 FTS	103		48 - 195	02/06/23 11:36	02/12/23 00:27	1
13C5 PFHxA	88		42 - 165	02/06/23 11:36	02/12/23 00:27	1
13C4 PFHpA	93		45 - 160	02/06/23 11:36	02/12/23 00:27	1
13C8 PFOA	87		47 - 152	02/06/23 11:36	02/12/23 00:27	1
13C9 PFNA	91		30 - 175	02/06/23 11:36	02/12/23 00:27	1
13C6 PFDA	81		42 - 161	02/06/23 11:36	02/12/23 00:27	1
13C7 PFUnA	80		24 - 168	02/06/23 11:36	02/12/23 00:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-341867/1-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 341867

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-PFDoDA	78		14 - 168	02/06/23 11:36	02/12/23 00:27	1
13C2 PFTeDA	88		10 - 171	02/06/23 11:36	02/12/23 00:27	1
13C3 PFBS	81		55 - 157	02/06/23 11:36	02/12/23 00:27	1
13C3 PFHxS	81		44 - 159	02/06/23 11:36	02/12/23 00:27	1
13C8 PFOS	88		50 - 153	02/06/23 11:36	02/12/23 00:27	1
d3-NMeFOSAA	69		10 - 185	02/06/23 11:36	02/12/23 00:27	1
d5-NEtFOSAA	74		20 - 191	02/06/23 11:36	02/12/23 00:27	1
13C8 FOSA	55		10 - 156	02/06/23 11:36	02/12/23 00:27	1
13C4 PFBA	91		55 - 147	02/06/23 11:36	02/12/23 00:27	1
13C5 PFPeA	86		49 - 156	02/06/23 11:36	02/12/23 00:27	1
d7-N-MeFOSE-M	47		10 - 155	02/06/23 11:36	02/12/23 00:27	1
d3-NMePFOSA	27		10 - 128	02/06/23 11:36	02/12/23 00:27	1
d9-N-EtFOSE-M	53		10 - 169	02/06/23 11:36	02/12/23 00:27	1
d5-NEtPFOSA	33		10 - 128	02/06/23 11:36	02/12/23 00:27	1
13C3 HFPO-DA	59		15 - 159	02/06/23 11:36	02/12/23 00:27	1

Lab Sample ID: LCS 410-341867/2-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 341867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid	6400	7620		ng/L		119	59 - 145
Perfluorooctanoic acid	6400	6470		ng/L		101	51 - 145
Perfluorononanoic acid	6400	7360		ng/L		115	61 - 139
Perfluorodecanoic acid	6400	7740		ng/L		121	56 - 138
Perfluorotridecanoic acid	6400	7860		ng/L		123	58 - 146
Perfluorotetradecanoic acid	6400	7560		ng/L		118	62 - 139
Perfluorobutanesulfonic acid	5660	6890		ng/L		122	53 - 138
Perfluorohexanesulfonic acid	5840	6760		ng/L		116	58 - 134
Perfluorooctanesulfonic acid	5920	6490		ng/L		110	45 - 150
NEtFOSAA	6400	7230		ng/L		113	55 - 134
NMeFOSAA	6400	7080		ng/L		111	59 - 140
10:2 FTS	6170	6990		ng/L		113	50 - 146
Perfluoropentanesulfonic acid	6000	7320		ng/L		122	55 - 140
Perfluoroheptanesulfonic acid	6090	7120		ng/L		117	56 - 140
Perfluorononanesulfonic acid	6140	6390		ng/L		104	59 - 136
Perfluorodecanesulfonic acid	6170	7000		ng/L		113	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	6200	6270		ng/L		101	48 - 138
Perfluorooctanesulfonamide	6400	7590		ng/L		119	43 - 167
Perfluorohexadecanoic acid	6400	8400		ng/L		131	41 - 158
Perfluorooctadecanoic acid	6400	10400		ng/L		162	29 - 172
Perfluorobutanoic acid	6400	6680		ng/L		104	59 - 136
Perfluoropentanoic acid	6400	7150		ng/L		112	57 - 141
NMeFOSE	6400	7360		ng/L		115	55 - 144
NMeFOSA	6400	7600		ng/L		119	64 - 143
NEtFOSE	6400	7850		ng/L		123	60 - 136
NEtFOSA	6400	6930		ng/L		108	61 - 134

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QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-341867/2-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 341867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPODA	6400	7310		ng/L		114	50 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6050	6630		ng/L		110	55 - 143
9Cl-PF3ONS	5950	6360		ng/L		107	59 - 135
11Cl-PF3OUdS	5950	6380		ng/L		107	53 - 139
Perfluorododecanoic acid	6400	7060		ng/L		110	59 - 143
4:2 Fluorotelomer sulfonic acid	5980	7070		ng/L		118	55 - 139
Perfluoroundecanoic acid	6400	7530		ng/L		118	60 - 141
6:2 Fluorotelomer sulfonic acid	6070	7190		ng/L		118	28 - 173
8:2 Fluorotelomer sulfonic acid	6130	6980		ng/L		114	55 - 138

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	82		47 - 200
M2-8:2 FTS	98		41 - 198
M2-6:2 FTS	97		48 - 195
13C5 PFHxA	88		42 - 165
13C4 PFHpA	88		45 - 160
13C8 PFOA	87		47 - 152
13C9 PFNA	94		30 - 175
13C6 PFDA	81		42 - 161
13C7 PFUnA	83		24 - 168
13C2-PFDoDA	80		14 - 168
13C2 PFTeDA	88		10 - 171
13C3 PFBS	81		55 - 157
13C3 PFHxS	82		44 - 159
13C8 PFOS	92		50 - 153
d3-NMeFOSAA	76		10 - 185
d5-NEtFOSAA	75		20 - 191
13C8 FOSA	61		10 - 156
13C4 PFBA	90		55 - 147
13C5 PFPeA	85		49 - 156
d7-N-MeFOSE-M	56		10 - 155
d3-NMePFOSA	34		10 - 128
d9-N-EtFOSE-M	58		10 - 169
d5-NEtPFOSA	40		10 - 128
13C3 HFPO-DA	61		15 - 159

Lab Sample ID: LCSD 410-341867/3-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 341867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	6400	7220		ng/L		113	58 - 139	3	30
Perfluoroheptanoic acid	6400	7790		ng/L		122	59 - 145	2	30
Perfluorooctanoic acid	6400	6720		ng/L		105	51 - 145	4	30
Perfluorononanoic acid	6400	7680		ng/L		120	61 - 139	4	30
Perfluorodecanoic acid	6400	7450		ng/L		116	56 - 138	4	30
Perfluorotridecanoic acid	6400	8420		ng/L		132	58 - 146	7	30
Perfluorotetradecanoic acid	6400	7660		ng/L		120	62 - 139	1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-341867/3-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 341867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid	5660	7040		ng/L		124	53 - 138	2	30
Perfluorohexanesulfonic acid	5840	10100	*+ *1	ng/L		173	58 - 134	40	30
Perfluorooctanesulfonic acid	5920	6780		ng/L		114	45 - 150	4	30
NEtFOSAA	6400	6890		ng/L		108	55 - 134	5	30
NMeFOSAA	6400	7670		ng/L		120	59 - 140	8	30
10:2 FTS	6170	6210		ng/L		101	50 - 146	12	30
Perfluoropentanesulfonic acid	6000	7470		ng/L		124	55 - 140	2	30
Perfluoroheptanesulfonic acid	6090	7380		ng/L		121	56 - 140	4	30
Perfluorononanesulfonic acid	6140	6550		ng/L		107	59 - 136	2	30
Perfluorodecanesulfonic acid	6170	6740		ng/L		109	55 - 137	4	30
Perfluorododecanesulfonic acid (PFDoS)	6200	6580		ng/L		106	48 - 138	5	30
Perfluorooctanesulfonamide	6400	7720		ng/L		121	43 - 167	2	30
Perfluorohexadecanoic acid	6400	8570		ng/L		134	41 - 158	2	30
Perfluorooctadecanoic acid	6400	10200		ng/L		160	29 - 172	2	30
Perfluorobutanoic acid	6400	6740		ng/L		105	59 - 136	1	30
Perfluoropentanoic acid	6400	7370		ng/L		115	57 - 141	3	30
NMeFOSE	6400	7300		ng/L		114	55 - 144	1	30
NMeFOSA	6400	6910		ng/L		108	64 - 143	9	30
NEtFOSE	6400	7600		ng/L		119	60 - 136	3	30
NEtFOSA	6400	7140		ng/L		112	61 - 134	3	30
HFPODA	6400	7010		ng/L		110	50 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6050	7030		ng/L		116	55 - 143	6	30
9Cl-PF3ONS	5950	6290		ng/L		106	59 - 135	1	30
11Cl-PF3OUdS	5950	6530		ng/L		110	53 - 139	2	30
Perfluorododecanoic acid	6400	7560		ng/L		118	59 - 143	7	30
4:2 Fluorotelomer sulfonic acid	5980	7200		ng/L		120	55 - 139	2	30
Perfluoroundecanoic acid	6400	7800		ng/L		122	60 - 141	3	30
6:2 Fluorotelomer sulfonic acid	6070	6930		ng/L		114	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid	6130	6490		ng/L		106	55 - 138	7	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	87		47 - 200
M2-8:2 FTS	111		41 - 198
M2-6:2 FTS	101		48 - 195
13C5 PFHxA	90		42 - 165
13C4 PFHpA	90		45 - 160
13C8 PFOA	91		47 - 152
13C9 PFNA	93		30 - 175
13C6 PFDA	85		42 - 161
13C7 PFUnA	85		24 - 168
13C2-PFDoDA	82		14 - 168
13C2 PFTeDA	88		10 - 171
13C3 PFBS	88		55 - 157
13C3 PFHxS	87		44 - 159
13C8 PFOS	91		50 - 153
d3-NMeFOSAA	74		10 - 185
d5-NEtFOSAA	81		20 - 191

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-341867/3-B
Matrix: Solid
Analysis Batch: 343698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 341867

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C8 FOSA	62		10 - 156
13C4 PFBA	96		55 - 147
13C5 PFPeA	91		49 - 156
d7-N-MeFOSE-M	57		10 - 155
d3-NMePFOSA	36		10 - 128
d9-N-EtFOSE-M	58		10 - 169
d5-NEtPFOSA	41		10 - 128
13C3 HFPO-DA	71		15 - 159

Lab Sample ID: MB 410-342254/1-B
Matrix: Water
Analysis Batch: 343698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 342254

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<450		1000	450	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluoroheptanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorooctanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorononanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorodecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorotridecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorotetradecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorobutanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorohexanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorooctanesulfonic acid	<500		1000	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
NEtFOSAA	<250		1500	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
NMeFOSAA	<300		1000	300	ng/L		02/07/23 10:14	02/11/23 22:47	1
10:2 FTS	<500		2500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluoropentanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluoroheptanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorononanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorodecanesulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorododecanesulfonic acid (PFDoS)	<250		1500	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorooctanesulfonamide	<350		1000	350	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorohexadecanoic acid	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorooctadecanoic acid	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorobutanoic acid	<1000		2500	1000	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluoropentanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
NMeFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
NMeFOSA	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
NEtFOSE	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
NEtFOSA	<500		2500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
HFPODA	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
9CI-PF3ONS	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
11CI-PF3OUdS	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
Perfluorododecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
4:2 Fluorotelomer sulfonic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-342254/1-B
Matrix: Water
Analysis Batch: 343698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 342254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid	<250		1000	250	ng/L		02/07/23 10:14	02/11/23 22:47	1
6:2 Fluorotelomer sulfonic acid	<2100		2500	2100	ng/L		02/07/23 10:14	02/11/23 22:47	1
8:2 Fluorotelomer sulfonic acid	<500		1500	500	ng/L		02/07/23 10:14	02/11/23 22:47	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	89		47 - 200	02/07/23 10:14	02/11/23 22:47	1
M2-8:2 FTS	110		41 - 198	02/07/23 10:14	02/11/23 22:47	1
M2-6:2 FTS	101		48 - 195	02/07/23 10:14	02/11/23 22:47	1
13C5 PFHxA	98		42 - 165	02/07/23 10:14	02/11/23 22:47	1
13C4 PFHpA	100		45 - 160	02/07/23 10:14	02/11/23 22:47	1
13C8 PFOA	97		47 - 152	02/07/23 10:14	02/11/23 22:47	1
13C9 PFNA	104		30 - 175	02/07/23 10:14	02/11/23 22:47	1
13C6 PFDA	90		42 - 161	02/07/23 10:14	02/11/23 22:47	1
13C7 PFUnA	92		24 - 168	02/07/23 10:14	02/11/23 22:47	1
13C2-PFDoDA	82		14 - 168	02/07/23 10:14	02/11/23 22:47	1
13C2 PFTeDA	88		10 - 171	02/07/23 10:14	02/11/23 22:47	1
13C3 PFBS	90		55 - 157	02/07/23 10:14	02/11/23 22:47	1
13C3 PFHxS	94		44 - 159	02/07/23 10:14	02/11/23 22:47	1
13C8 PFOS	101		50 - 153	02/07/23 10:14	02/11/23 22:47	1
d3-NMeFOSAA	84		10 - 185	02/07/23 10:14	02/11/23 22:47	1
d5-NEtFOSAA	82		20 - 191	02/07/23 10:14	02/11/23 22:47	1
13C8 FOSA	77		10 - 156	02/07/23 10:14	02/11/23 22:47	1
13C4 PFBA	97		55 - 147	02/07/23 10:14	02/11/23 22:47	1
13C5 PFPeA	92		49 - 156	02/07/23 10:14	02/11/23 22:47	1
d7-N-MeFOSE-M	56		10 - 155	02/07/23 10:14	02/11/23 22:47	1
d3-NMePFOSA	44		10 - 128	02/07/23 10:14	02/11/23 22:47	1
d9-N-EtFOSE-M	57		10 - 169	02/07/23 10:14	02/11/23 22:47	1
d5-NEtPFOSA	47		10 - 128	02/07/23 10:14	02/11/23 22:47	1
13C3 HFPO-DA	108		15 - 159	02/07/23 10:14	02/11/23 22:47	1

Lab Sample ID: LCS 410-342254/2-B
Matrix: Water
Analysis Batch: 343698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 342254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	6400	5740		ng/L		90	58 - 139
Perfluoroheptanoic acid	6400	6040		ng/L		94	59 - 145
Perfluorooctanoic acid	6400	5480		ng/L		86	51 - 145
Perfluorononanoic acid	6400	6100		ng/L		95	61 - 139
Perfluorodecanoic acid	6400	5930		ng/L		93	56 - 138
Perfluorotridecanoic acid	6400	8780		ng/L		137	58 - 146
Perfluorotetradecanoic acid	6400	6330		ng/L		99	62 - 139
Perfluorobutanesulfonic acid	5660	5560		ng/L		98	53 - 138
Perfluorohexanesulfonic acid	5840	5380		ng/L		92	58 - 134
Perfluorooctanesulfonic acid	5920	5450		ng/L		92	45 - 150
NEtFOSAA	6400	5400		ng/L		84	55 - 134
NMeFOSAA	6400	6130		ng/L		96	59 - 140
10:2 FTS	6170	4960		ng/L		80	50 - 146
Perfluoropentanesulfonic acid	6000	5890		ng/L		98	55 - 140

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-342254/2-B

Matrix: Water

Analysis Batch: 343698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 342254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid	6090	5750		ng/L		94	56 - 140
Perfluorononanesulfonic acid	6140	5200		ng/L		85	59 - 136
Perfluorodecanesulfonic acid	6170	5800		ng/L		94	55 - 137
Perfluorododecanesulfonic acid (PFDoS)	6200	4930		ng/L		80	48 - 138
Perfluorooctanesulfonamide	6400	5950		ng/L		93	43 - 167
Perfluorohexadecanoic acid	6400	6210		ng/L		97	41 - 158
Perfluorooctadecanoic acid	6400	6230		ng/L		97	29 - 172
Perfluorobutanoic acid	6400	5230		ng/L		82	59 - 136
Perfluoropentanoic acid	6400	5650		ng/L		88	57 - 141
NMeFOSE	6400	6430		ng/L		101	55 - 144
NMeFOSA	6400	5750		ng/L		90	64 - 143
NEtFOSE	6400	6160		ng/L		96	60 - 136
NEtFOSA	6400	5970		ng/L		93	61 - 134
HFPODA	6400	5000		ng/L		78	50 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6050	5540		ng/L		92	55 - 143
9Cl-PF3ONS	5950	5130		ng/L		86	59 - 135
11Cl-PF3OUdS	5950	5320		ng/L		89	53 - 139
Perfluorododecanoic acid	6400	5950		ng/L		93	59 - 143
4:2 Fluorotelomer sulfonic acid	5980	5110		ng/L		85	55 - 139
Perfluoroundecanoic acid	6400	6130		ng/L		96	60 - 141
6:2 Fluorotelomer sulfonic acid	6070	5350		ng/L		88	28 - 173
8:2 Fluorotelomer sulfonic acid	6130	5430		ng/L		89	55 - 138

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	97		47 - 200
M2-8:2 FTS	109		41 - 198
M2-6:2 FTS	106		48 - 195
13C5 PFHxA	98		42 - 165
13C4 PFHpA	102		45 - 160
13C8 PFOA	99		47 - 152
13C9 PFNA	101		30 - 175
13C6 PFDA	95		42 - 161
13C7 PFUnA	94		24 - 168
13C2-PFDoDA	90		14 - 168
13C2 PFTeDA	87		10 - 171
13C3 PFBS	92		55 - 157
13C3 PFHxS	97		44 - 159
13C8 PFOS	100		50 - 153
d3-NMeFOSAA	90		10 - 185
d5-NEtFOSAA	94		20 - 191
13C8 FOSA	80		10 - 156
13C4 PFBA	94		55 - 147
13C5 PFPeA	96		49 - 156
d7-N-MeFOSE-M	57		10 - 155
d3-NMePFOSA	47		10 - 128
d9-N-EtFOSE-M	60		10 - 169
d5-NEtPFOSA	55		10 - 128

QC Sample Results

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-342254/2-B
Matrix: Water
Analysis Batch: 343698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 342254

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	99		15 - 159

Lab Sample ID: LCSD 410-342254/3-B
Matrix: Water
Analysis Batch: 343698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 342254

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid	6400	6070		ng/L		95	59 - 145	0	30
Perfluorooctanoic acid	6400	5500		ng/L		86	51 - 145	0	30
Perfluorononanoic acid	6400	6480		ng/L		101	61 - 139	6	30
Perfluorodecanoic acid	6400	5770		ng/L		90	56 - 138	3	30
Perfluorotridecanoic acid	6400	6360	*1	ng/L		99	58 - 146	32	30
Perfluorotetradecanoic acid	6400	5750		ng/L		90	62 - 139	10	30
Perfluorobutanesulfonic acid	5660	5730		ng/L		101	53 - 138	3	30
Perfluorohexanesulfonic acid	5840	5440		ng/L		93	58 - 134	1	30
Perfluorooctanesulfonic acid	5920	5530		ng/L		93	45 - 150	1	30
NEtFOSAA	6400	5630		ng/L		88	55 - 134	4	30
NMeFOSAA	6400	5900		ng/L		92	59 - 140	4	30
10:2 FTS	6170	4060		ng/L		66	50 - 146	20	30
Perfluoropentanesulfonic acid	6000	5930		ng/L		99	55 - 140	1	30
Perfluoroheptanesulfonic acid	6090	5580		ng/L		92	56 - 140	3	30
Perfluorononanesulfonic acid	6140	5440		ng/L		88	59 - 136	4	30
Perfluorodecanesulfonic acid	6170	5840		ng/L		95	55 - 137	1	30
Perfluorododecanesulfonic acid (PFDoS)	6200	5030		ng/L		81	48 - 138	2	30
Perfluorooctanesulfonamide	6400	6030		ng/L		94	43 - 167	1	30
Perfluorohexadecanoic acid	6400	4970		ng/L		78	41 - 158	22	30
Perfluorooctadecanoic acid	6400	5030		ng/L		79	29 - 172	21	30
Perfluorobutanoic acid	6400	5220		ng/L		82	59 - 136	0	30
Perfluoropentanoic acid	6400	5590		ng/L		87	57 - 141	1	30
NMeFOSE	6400	5890		ng/L		92	55 - 144	9	30
NMeFOSA	6400	6220		ng/L		97	64 - 143	8	30
NEtFOSE	6400	6070		ng/L		95	60 - 136	2	30
NEtFOSA	6400	5620		ng/L		88	61 - 134	6	30
HFPODA	6400	5210		ng/L		81	50 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6050	5350		ng/L		88	55 - 143	3	30
9Cl-PF3ONS	5950	5450		ng/L		92	59 - 135	6	30
11Cl-PF3OUdS	5950	5790		ng/L		97	53 - 139	9	30
Perfluorododecanoic acid	6400	6150		ng/L		96	59 - 143	3	30
4:2 Fluorotelomer sulfonic acid	5980	5370		ng/L		90	55 - 139	5	30
Perfluoroundecanoic acid	6400	6360		ng/L		99	60 - 141	4	30
6:2 Fluorotelomer sulfonic acid	6070	5400		ng/L		89	28 - 173	1	30
8:2 Fluorotelomer sulfonic acid	6130	4920		ng/L		80	55 - 138	10	30

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	98		47 - 200
M2-8:2 FTS	118		41 - 198

QC Sample Results

Client: Biological Diversity
 Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-342254/3-B
 Matrix: Water
 Analysis Batch: 343698

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 342254

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	115		48 - 195
13C5 PFHxA	107		42 - 165
13C4 PFHpA	108		45 - 160
13C8 PFOA	104		47 - 152
13C9 PFNA	103		30 - 175
13C6 PFDA	95		42 - 161
13C7 PFUnA	92		24 - 168
13C2-PFDoDA	89		14 - 168
13C2 PFTeDA	104		10 - 171
13C3 PFBS	94		55 - 157
13C3 PFHxS	102		44 - 159
13C8 PFOS	100		50 - 153
d3-NMeFOSAA	90		10 - 185
d5-NEtFOSAA	91		20 - 191
13C8 FOSA	81		10 - 156
13C4 PFBA	103		55 - 147
13C5 PFPeA	99		49 - 156
d7-N-MeFOSE-M	57		10 - 155
d3-NMePFOSA	48		10 - 128
d9-N-EtFOSE-M	57		10 - 169
d5-NEtPFOSA	50		10 - 128
13C3 HFPO-DA	97		15 - 159



QC Association Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

LCMS

Prep Batch: 341867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-1 - RA	19713-217	Total/NA	Water	EPA 537 (Mod)	
410-113812-1	19713-217	Total/NA	Water	EPA 537 (Mod)	
410-113812-2 - RA	264-719	Total/NA	Water	EPA 537 (Mod)	
410-113812-2	264-719	Total/NA	Water	EPA 537 (Mod)	
410-113812-3	69526-5-499	Total/NA	Water	EPA 537 (Mod)	
410-113812-6 - RA	62719-442	Total/NA	Water	EPA 537 (Mod)	
410-113812-6	62719-442	Total/NA	Water	EPA 537 (Mod)	
410-113812-8 - RA	9688-250-8845	Total/NA	Solid	EPA 537 (Mod)	
410-113812-8	9688-250-8845	Total/NA	Solid	EPA 537 (Mod)	
410-113812-9 - RA	59807-15	Total/NA	Solid	EPA 537 (Mod)	
410-113812-9	59807-15	Total/NA	Solid	EPA 537 (Mod)	
410-113812-10	Water Blank	Total/NA	Water	EPA 537 (Mod)	
MB 410-341867/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	
LCS 410-341867/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	
LCSD 410-341867/3-B	Lab Control Sample Dup	Total/NA	Solid	EPA 537 (Mod)	

Prep Batch: 342254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-4 - RA	100-896	Total/NA	Water	EPA 537 (Mod)	
410-113812-4	100-896	Total/NA	Water	EPA 537 (Mod)	
410-113812-5	53883-419-59807	Total/NA	Water	EPA 537 (Mod)	
410-113812-7	239-2717	Total/NA	Water	EPA 537 (Mod)	
MB 410-342254/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-342254/2-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-342254/3-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 342480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-1	19713-217	Total/NA	Water	Extract Aliquot	341867
410-113812-1 - RA	19713-217	Total/NA	Water	Extract Aliquot	341867
410-113812-2	264-719	Total/NA	Water	Extract Aliquot	341867
410-113812-2 - RA	264-719	Total/NA	Water	Extract Aliquot	341867
410-113812-3	69526-5-499	Total/NA	Water	Extract Aliquot	341867
410-113812-6 - RA	62719-442	Total/NA	Water	Extract Aliquot	341867
410-113812-6	62719-442	Total/NA	Water	Extract Aliquot	341867
410-113812-8 - RA	9688-250-8845	Total/NA	Solid	Extract Aliquot	341867
410-113812-8	9688-250-8845	Total/NA	Solid	Extract Aliquot	341867
410-113812-9 - RA	59807-15	Total/NA	Solid	Extract Aliquot	341867
410-113812-9	59807-15	Total/NA	Solid	Extract Aliquot	341867
410-113812-10	Water Blank	Total/NA	Water	Extract Aliquot	341867
MB 410-341867/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	341867
LCS 410-341867/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	341867
LCSD 410-341867/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	341867

Cleanup Batch: 342481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-4	100-896	Total/NA	Water	Extract Aliquot	342254
410-113812-4 - RA	100-896	Total/NA	Water	Extract Aliquot	342254
410-113812-5	53883-419-59807	Total/NA	Water	Extract Aliquot	342254
410-113812-7	239-2717	Total/NA	Water	Extract Aliquot	342254
MB 410-342254/1-B	Method Blank	Total/NA	Water	Extract Aliquot	342254

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

LCMS (Continued)

Cleanup Batch: 342481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-342254/2-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	342254
LCSD 410-342254/3-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	342254

Analysis Batch: 343698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-5	53883-419-59807	Total/NA	Water	537 IDA	342481
410-113812-6 - RA	62719-442	Total/NA	Water	537 IDA	342480
410-113812-7	239-2717	Total/NA	Water	537 IDA	342481
410-113812-8 - RA	9688-250-8845	Total/NA	Solid	537 IDA	342480
410-113812-9 - RA	59807-15	Total/NA	Solid	537 IDA	342480
MB 410-341867/1-B	Method Blank	Total/NA	Solid	537 IDA	342480
MB 410-342254/1-B	Method Blank	Total/NA	Water	537 IDA	342481
LCS 410-341867/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	342480
LCS 410-342254/2-B	Lab Control Sample	Total/NA	Water	537 IDA	342481
LCSD 410-341867/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	342480
LCSD 410-342254/3-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	342481

Analysis Batch: 344449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-4	100-896	Total/NA	Water	537 IDA	342481
410-113812-4 - RA	100-896	Total/NA	Water	537 IDA	342481

Analysis Batch: 346894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-1	19713-217	Total/NA	Water	537 IDA	342480
410-113812-1 - RA	19713-217	Total/NA	Water	537 IDA	342480
410-113812-2 - RA	264-719	Total/NA	Water	537 IDA	342480
410-113812-2	264-719	Total/NA	Water	537 IDA	342480
410-113812-3	69526-5-499	Total/NA	Water	537 IDA	342480
410-113812-6	62719-442	Total/NA	Water	537 IDA	342480
410-113812-8	9688-250-8845	Total/NA	Solid	537 IDA	342480
410-113812-9	59807-15	Total/NA	Solid	537 IDA	342480
410-113812-10	Water Blank	Total/NA	Water	537 IDA	342480

Prep Batch: 355041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-5 - RE	53883-419-59807	Total/NA	Water	EPA 537 (Mod)	
MB 410-355041/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-355041/2-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-355041/3-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 355340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-5 - RE	53883-419-59807	Total/NA	Water	Extract Aliquot	355041
MB 410-355041/1-B	Method Blank	Total/NA	Water	Extract Aliquot	355041
LCS 410-355041/2-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	355041
LCSD 410-355041/3-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	355041

Analysis Batch: 357670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-5 - RE	53883-419-59807	Total/NA	Water	537 IDA	355340

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

LCMS (Continued)

Analysis Batch: 357670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-355041/1-B	Method Blank	Total/NA	Water	537 IDA	355340
LCS 410-355041/2-B	Lab Control Sample	Total/NA	Water	537 IDA	355340
LCSD 410-355041/3-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	355340

General Chemistry

Analysis Batch: 340388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113812-8	9688-250-8845	Total/NA	Solid	Moisture	
410-113812-9	59807-15	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 19713-217

Lab Sample ID: 410-113812-1

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 21:13
Total/NA	Prep	EPA 537 (Mod)	RA		341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot	RA		342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA	RA	1	346894	DTA4	ELLE	02/22/23 21:24

Client Sample ID: 264-719

Lab Sample ID: 410-113812-2

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)	RA		341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot	RA		342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA	RA	1	346894	DTA4	ELLE	02/22/23 21:35
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 21:46

Client Sample ID: 69526-5-499

Lab Sample ID: 410-113812-3

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 21:58

Client Sample ID: 100-896

Lab Sample ID: 410-113812-4

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)			342254	D5VP	ELLE	02/07/23 10:14
Total/NA	Cleanup	Extract Aliquot			342481	K9VR	ELLE	02/07/23 20:30
Total/NA	Analysis	537 IDA		1	344449	JVK6	ELLE	02/15/23 01:14
Total/NA	Prep	EPA 537 (Mod)	RA		342254	D5VP	ELLE	02/07/23 10:14
Total/NA	Cleanup	Extract Aliquot	RA		342481	K9VR	ELLE	02/07/23 20:30
Total/NA	Analysis	537 IDA	RA	1	344449	JVK6	ELLE	02/15/23 01:25

Lab Chronicle

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 53883-419-59807

Lab Sample ID: 410-113812-5

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)	RE		355041	D5VP	ELLE	03/19/23 11:33
Total/NA	Cleanup	Extract Aliquot	RE		355340	D5VP	ELLE	03/20/23 14:11
Total/NA	Analysis	537 IDA	RE	1	357670	PY4D	ELLE	03/27/23 13:57
Total/NA	Prep	EPA 537 (Mod)			342254	D5VP	ELLE	02/07/23 10:14
Total/NA	Cleanup	Extract Aliquot			342481	K9VR	ELLE	02/07/23 20:30
Total/NA	Analysis	537 IDA		1	343698	UCD3	ELLE	02/11/23 23:54

Client Sample ID: 62719-442

Lab Sample ID: 410-113812-6

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)	RA		341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot	RA		342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA	RA	1	343698	UCD3	ELLE	02/12/23 02:07
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 22:09

Client Sample ID: 239-2717

Lab Sample ID: 410-113812-7

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)			342254	D5VP	ELLE	02/07/23 10:14
Total/NA	Cleanup	Extract Aliquot			342481	K9VR	ELLE	02/07/23 20:30
Total/NA	Analysis	537 IDA		1	343698	UCD3	ELLE	02/12/23 00:05

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	340388	UVJN	ELLE	02/01/23 07:18

Client Sample ID: 9688-250-8845

Lab Sample ID: 410-113812-8

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)	RA		341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot	RA		342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA	RA	1	343698	UCD3	ELLE	02/12/23 02:18
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 22:20

Lab Chronicle

Client: Biological Diversity
 Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Client Sample ID: 59807-15

Lab Sample ID: 410-113812-9

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	340388	UVJN	ELLE	02/01/23 07:18

Client Sample ID: 59807-15

Lab Sample ID: 410-113812-9

Date Collected: 01/27/23 00:00

Matrix: Solid

Date Received: 01/30/23 12:15

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)	RA		341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot	RA		342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA	RA	1	343698	UCD3	ELLE	02/12/23 02:29
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 22:31

Client Sample ID: Water Blank

Lab Sample ID: 410-113812-10

Date Collected: 01/27/23 00:00

Matrix: Water

Date Received: 01/30/23 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537 (Mod)			341867	D5VP	ELLE	02/06/23 11:36
Total/NA	Cleanup	Extract Aliquot			342480	K9VR	ELLE	02/07/23 20:29
Total/NA	Analysis	537 IDA		1	346894	DTA4	ELLE	02/22/23 22:42

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA200001	09-11-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture



Method Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: Biological Diversity
Project/Site: PFAS Pesticide Testing

Job ID: 410-113812-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-113812-1	19713-217	Water	01/27/23 00:00	01/30/23 12:15
410-113812-2	264-719	Water	01/27/23 00:00	01/30/23 12:15
410-113812-3	69526-5-499	Water	01/27/23 00:00	01/30/23 12:15
410-113812-4	100-896	Water	01/27/23 00:00	01/30/23 12:15
410-113812-5	53883-419-59807	Water	01/27/23 00:00	01/30/23 12:15
410-113812-6	62719-442	Water	01/27/23 00:00	01/30/23 12:15
410-113812-7	239-2717	Water	01/27/23 00:00	01/30/23 12:15
410-113812-8	9688-250-8845	Solid	01/27/23 00:00	01/30/23 12:15
410-113812-9	59807-15	Solid	01/27/23 00:00	01/30/23 12:15
410-113812-10	Water Blank	Water	01/27/23 00:00	01/30/23 12:15

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Eurofins Lancaster Laboratories Environme

2425 New Holland Pike
Lancaster, PA 17601
Phone 717-656-2300 Fax 717-656-2681

Chain of Custody Record



410-113812 Chain of Custody

Eurofins

Client Information		Sampler	Lab PM	410-113812 Chain of Custody				No
Client Contact Nathan Donley		Phone	E-Mail	Dana Kauffman@et eurofins.com				-77869-21580 1
Company Biological Diversity		PWSID:	Analysis Requested				Job #	
Address PO BOX 11374		Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC_IDA - Standard 32, plus 4 replacements				Total Number of containers	
City Portland		TAT Requested (days):						
State Zip OR, 97211		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Phone:		PO # Pay by Credit Card						
Email NDonley@biologicaldiversity.org		WO #						
Project Name PFAS Pesticide Testing		Project # 41013581					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)	
Site		SSOW#					Other:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
				Preservation Code:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
19713-217					Water		Y	
264-719					Water		Y	
69526-5-499					Water		Y	
100-896					Water		Y	limited sample - 5 only 1 tube
53883-419-59807					Water		Y	
62719-442					Water		Y	
239-2717					Water		Y	
9688-250-8845					Solid		Y	
59807-15					Solid		Y	
water blank					Water		Y	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:				
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time: 1/30/23 12:15	Company: CLO	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: N/A		Cooler Temperature(s) °C and Other Remarks: N/A				

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RJH

Login Sample Receipt Checklist

Client: Biological Diversity

Job Number: 410-113812-1

Login Number: 113812

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Metzger, Katherine A

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	Thermal preservation not required.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	