



ANALYTICAL REPORT

PREPARED FOR

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Union County Water
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Monroe, North Carolina 28112

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JOB DESCRIPTION

PFAS - 533

JOB NUMBER

810-148055-1

Eurofins Eaton Analytical South Bend

Job Notes

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

Authorization



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Definitions/Glossary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Qualifiers

LCMS

Qualifier	Qualifier Description
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.
☼	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: Union County Water
Project: PFAS - 533

Job ID: 810-148055-1

Job ID: 810-148055-1

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Job Narrative 810-148055-1

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

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

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

Receipt

The samples were received on 5/12/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.8°C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: J18-Rehobeth ARV (810-148055-1), Y01-Yadkin Finishe4d Water (810-148055-2) and Y02-Yadkin Raw Water (810-148055-3). This does not meet regulatory requirement. Temped at 18.8

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18-Rehobeth ARV (810-148055-1), Y01-Yadkin Finishe4d Water (810-148055-2) and Y02-Yadkin Raw Water (810-148055-3)

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

Detection Summary

Client: Union County Water
 Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-148055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.3		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	6.2		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	6.2		1.9		ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		1.9		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		1.9		ng/L	1		533	Total/NA

Client Sample ID: Y01-Yadkin Finishe4d Water

Lab Sample ID: 810-148055-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.1		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L	1		533	Total/NA

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-148055-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.0		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.8		2.0		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-148055-1

Date Collected: 05/08/25 11:08

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.3		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoropentanoic acid (PFPeA)	6.2		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorohexanoic acid (PFHxA)	6.2		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoroheptanoic acid (PFHpA)	2.2		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorooctanoic acid (PFOA)	4.1		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluorooctanesulfonic acid (PFOS)	3.0		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		05/13/25 08:41	05/15/25 06:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C5 PFPeA	102		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C5 PFHxA	94		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C4 PFHpA	85		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C8 PFOA	83		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C9 PFNA	72		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C6 PFDA	71		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C7 PFUnA	77		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C2 PFDoA	87		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C3 HFPO-DA	91		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C3 PFBS	106		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C8 PFOS	100		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C2-4:2-FTS	109		50 - 200	05/13/25 08:41	05/15/25 06:13	1

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Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-148055-1

Date Collected: 05/08/25 11:08

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	119		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C2-8:2-FTS	118		50 - 200	05/13/25 08:41	05/15/25 06:13	1
13C3 PFHxS	96		50 - 200	05/13/25 08:41	05/15/25 06:13	1

Client Sample ID: Y01-Yadkin Finishe4d Water

Lab Sample ID: 810-148055-2

Date Collected: 05/08/25 12:31

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoropentanoic acid (PFPeA)	2.1		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorohexanoic acid (PFHxA)	2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorooctanoic acid (PFOA)	2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:17	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	99		50 - 200	05/13/25 08:41	05/15/25 03:17	1			
13C5 PFPeA	104		50 - 200	05/13/25 08:41	05/15/25 03:17	1			
13C5 PFHxA	89		50 - 200	05/13/25 08:41	05/15/25 03:17	1			
13C4 PFHpA	86		50 - 200	05/13/25 08:41	05/15/25 03:17	1			
13C8 PFOA	85		50 - 200	05/13/25 08:41	05/15/25 03:17	1			

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Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: Y01-Yadkin Finishe4d Water

Lab Sample ID: 810-148055-2

Date Collected: 05/08/25 12:31

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	74		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C6 PFDA	77		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C7 PFUnA	82		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C2 PFDoA	90		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C3 HFPO-DA	87		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C3 PFBS	103		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C8 PFOS	102		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C2-4:2-FTS	108		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C2-6:2-FTS	115		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C2-8:2-FTS	118		50 - 200	05/13/25 08:41	05/15/25 03:17	1
13C3 PFHxS	99		50 - 200	05/13/25 08:41	05/15/25 03:17	1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-148055-3

Date Collected: 05/08/25 12:35

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoropentanoic acid (PFPeA)	2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorohexanoic acid (PFHxA)	2.2		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorooctanoic acid (PFOA)	2.6		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluorooctanesulfonic acid (PFOS)	3.8		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Union County Water
 Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-148055-3

Date Collected: 05/08/25 12:35

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		05/13/25 08:41	05/15/25 03:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C5 PFPeA	100		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C5 PFHxA	93		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C4 PFHpA	88		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C8 PFOA	92		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C9 PFNA	88		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C6 PFDA	94		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C7 PFUnA	94		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C2 PFDoA	90		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C3 HFPO-DA	91		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C3 PFBS	104		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C8 PFOS	97		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C2-4:2-FTS	122		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C2-6:2-FTS	112		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C2-8:2-FTS	115		50 - 200				05/13/25 08:41	05/15/25 03:44	1
13C3 PFHxS	100		50 - 200				05/13/25 08:41	05/15/25 03:44	1

Isotope Dilution Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	C6PFDA (50-200)	13C7PUA (50-200)
810-148055-1	J18-Rehobeth ARV	96	102	94	85	83	72	71	77
810-148055-2	Y01-Yadkin Finishe4d Water	99	104	89	86	85	74	77	82
810-148055-3	Y02-Yadkin Raw Water	95	100	93	88	92	88	94	94
LCS 810-143728/3-A	Lab Control Sample	60	62	58	64	70	74	75	82
LLCS 810-143728/2-A	Lab Control Sample	96	99	93	94	96	95	94	92
MBL 810-143728/1-A	Method Blank	71	73	70	76	77	75	73	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o A (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-148055-1	J18-Rehobeth ARV	87	91	106	100	109	119	118	96
810-148055-2	Y01-Yadkin Finishe4d Water	90	87	103	102	108	115	118	99
810-148055-3	Y02-Yadkin Raw Water	90	91	104	97	122	112	115	100
LCS 810-143728/3-A	Lab Control Sample	84	57	98	96	103	116	111	98
LLCS 810-143728/2-A	Lab Control Sample	93	92	100	99	98	113	103	99
MBL 810-143728/1-A	Method Blank	79	70	104	101	93	103	105	100

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFD_oA
- HFPODA = 13C3 HFPO-DA
- C3PFBS = 13C3 PFBS
- C8PFOS = 13C8 PFOS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS
- C3PFHS = 13C3 PFHxS

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-143728/1-A
Matrix: Drinking Water
Analysis Batch: 144052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143728

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoropentanoic acid (PFPeA)	<0.77		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorohexanoic acid (PFHxA)	<0.73		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoroheptanoic acid (PFHpA)	<0.72		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorooctanoic acid (PFOA)	<0.74		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorononanoic acid (PFNA)	<0.73		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorodecanoic acid (PFDA)	<0.66		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoroundecanoic acid (PFUnA)	<0.70		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorododecanoic acid (PFDoA)	<0.70		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.66		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.69		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.66		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.60		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.69		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.66		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.67		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.71		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.97		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.82		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoro(4-methoxybutanoic acid)	<0.65		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.81		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		05/13/25 08:41	05/15/25 00:06	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	71		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C5 PFPeA	73		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C5 PFHxA	70		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C4 PFHpA	76		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C8 PFOA	77		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C9 PFNA	75		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C6 PFDA	73		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C7 PFUnA	76		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C2 PFDoA	79		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C3 HFPO-DA	70		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C3 PFBS	104		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C8 PFOS	101		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C2-4:2-FTS	93		50 - 200	05/13/25 08:41	05/15/25 00:06	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-143728/1-A
Matrix: Drinking Water
Analysis Batch: 144052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143728

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	103		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C2-8:2-FTS	105		50 - 200	05/13/25 08:41	05/15/25 00:06	1
13C3 PFHxS	100		50 - 200	05/13/25 08:41	05/15/25 00:06	1

Lab Sample ID: LCS 810-143728/3-A
Matrix: Drinking Water
Analysis Batch: 144052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	200	206		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	200	205		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	208		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	200	195		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	200	202		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	200	203		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	203		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	200	208		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	178	189		ng/L		106	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	188	197		ng/L		105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	185		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	191	199		ng/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	186	194		ng/L		104	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	178	186		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	188	202		ng/L		108	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190	198		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192	203		ng/L		106	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	205		ng/L		102	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	169		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	199		ng/L		107	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	189		ng/L		100	70 - 130
Perfluoro(4-methoxybutanoic acid)	200	199		ng/L		100	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	201		ng/L		101	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	200	190		ng/L		95	70 - 130

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	60		50 - 200
13C5 PFPeA	62		50 - 200
13C5 PFHxA	58		50 - 200
13C4 PFHpA	64		50 - 200
13C8 PFOA	70		50 - 200
13C9 PFNA	74		50 - 200
13C6 PFDA	75		50 - 200
13C7 PFUnA	82		50 - 200
13C2 PFDoA	84		50 - 200
13C3 HFPO-DA	57		50 - 200
13C3 PFBS	98		50 - 200
13C8 PFOS	96		50 - 200
13C2-4:2-FTS	103		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	111		50 - 200
13C3 PFHxS	98		50 - 200

Lab Sample ID: LLCS 810-143728/2-A

Matrix: Drinking Water

Analysis Batch: 144052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143728

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.83	J	ng/L		91	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.05		ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.75	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.87	J	ng/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.72	J	ng/L		94	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.82	J	ng/L		96	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.89	J	ng/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	1.93	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	2.03		ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	2.03		ng/L		107	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	2.17		ng/L		113	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.94	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.90	J	ng/L		100	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-143728/2-A

Matrix: Drinking Water

Analysis Batch: 144052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143728

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.87	1.85	J	ng/L		99	50 - 150
11-Chloroeicosafuoro-3-oxaund ecane-1-sulfonic acid	1.89	1.88	J	ng/L		99	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.08		ng/L		104	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.97	J	ng/L		99	50 - 150

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	96		50 - 200
13C5 PFPeA	99		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	94		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	95		50 - 200
13C6 PFDA	94		50 - 200
13C7 PFUnA	92		50 - 200
13C2 PFDoA	93		50 - 200
13C3 HFPO-DA	92		50 - 200
13C3 PFBS	100		50 - 200
13C8 PFOS	99		50 - 200
13C2-4:2-FTS	98		50 - 200
13C2-6:2-FTS	113		50 - 200
13C2-8:2-FTS	103		50 - 200
13C3 PFHxS	99		50 - 200

QC Association Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

LCMS

Prep Batch: 143728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-148055-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	
810-148055-2	Y01-Yadkin Finishe4d Water	Total/NA	Drinking Water	533	
810-148055-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-143728/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-143728/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-143728/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 144052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-148055-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	143728
810-148055-2	Y01-Yadkin Finishe4d Water	Total/NA	Drinking Water	533	143728
810-148055-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	143728
MBL 810-143728/1-A	Method Blank	Total/NA	Drinking Water	533	143728
LCS 810-143728/3-A	Lab Control Sample	Total/NA	Drinking Water	533	143728
LLCS 810-143728/2-A	Lab Control Sample	Total/NA	Drinking Water	533	143728

Lab Chronicle

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-148055-1

Date Collected: 05/08/25 11:08

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			143728	ET	EA SB	05/13/25 08:41
Total/NA	Analysis	533		1	144052	MH	EA SB	05/15/25 06:13

Client Sample ID: Y01-Yadkin Finishe4d Water

Lab Sample ID: 810-148055-2

Date Collected: 05/08/25 12:31

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			143728	ET	EA SB	05/13/25 08:41
Total/NA	Analysis	533		1	144052	MH	EA SB	05/15/25 03:17

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-148055-3

Date Collected: 05/08/25 12:35

Matrix: Drinking Water

Date Received: 05/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			143728	ET	EA SB	05/13/25 08:41
Total/NA	Analysis	533		1	144052	MH	EA SB	05/15/25 03:44

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	18700	07-31-25

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
533	533	Drinking Water	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
533	533	Drinking Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
533	533	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
533	533	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
533	533	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
533	533	Drinking Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)
533	533	Drinking Water	Perfluoro(4-methoxybutanoic acid)
533	533	Drinking Water	Perfluoro-3,6-dioxaheptanoic acid
533	533	Drinking Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
533	533	Drinking Water	Perfluorobutanesulfonic acid (PFBS)
533	533	Drinking Water	Perfluorobutanoic acid (PFBA)
533	533	Drinking Water	Perfluorodecanoic acid (PFDA)
533	533	Drinking Water	Perfluorododecanoic acid (PFDoA)
533	533	Drinking Water	Perfluoroheptanesulfonic acid (PFHpS)
533	533	Drinking Water	Perfluoroheptanoic acid (PFHpA)
533	533	Drinking Water	Perfluorohexanesulfonic acid (PFHxS)
533	533	Drinking Water	Perfluorohexanoic acid (PFHxA)
533	533	Drinking Water	Perfluorononanoic acid (PFNA)
533	533	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
533	533	Drinking Water	Perfluorooctanoic acid (PFOA)
533	533	Drinking Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Drinking Water	Perfluoropentanoic acid (PFPeA)
533	533	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-148055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-148055-1	J18-Rehobeth ARV	Drinking Water	05/08/25 11:08	05/12/25 08:00
810-148055-2	Y01-Yadkin Finishe4d Water	Drinking Water	05/08/25 12:31	05/12/25 08:00
810-148055-3	Y02-Yadkin Raw Water	Drinking Water	05/08/25 12:35	05/12/25 08:00

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Chain of Custody Record



Environment Testing America

810-148055 Chain of Custody

Client Contact: Justin Huntley

Phone: 704-506-9683

E-Mail: Joe.Mattheiss@eurofins.com

State of Origin:

Page: Page 1 of

Company: Union County Water

Due Date Requested:

PWSID:

Analysis Requested

Job #:

Address: 500 N. Main St

TAT Requested (days):

Compliance Project: Yes No

Carrier Tracking No(s):

COC No.:

City: Monroe

PO #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

State, Zip: NC, 28112

PO #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

Phone: 704-289-3307

Project #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

Email: Justin.Huntley@unioncountync.gov

Project #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

Project Name: PFAS-533

Project #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

Site: SSO#:

Project #:

Field Filtered Sample (Yes or No)

Perform MS/MSI

State of Origin:

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab, B=Tri-Sam, A=Air)

Matrix (Water, Solid, Over-sat, etc.)

Field Filtered Sample (Yes or No)

Perform MS/MSI

Field Filtered Sample (Yes or No)

Perform MS/MSI

Field Filtered Sample (Yes or No)

Perform MS/MSI

Field Filtered Sample (Yes or No)

Perform MS/MSI

S18- Rehobeth ARV

5/8/25

1108

G

DW

Y01- Yadkin Finished Water

5/8/25

1231

G

DW

Y02- Yadkin Raw Water

5/8/25

1235

G

DW

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

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

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by: *Deryl Ennis*

Date/Time: 5-8-25

1336

Company: UCU

Received by: *Heather White*

Date/Time: 05/12/2025

Company: *(Signature)*

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Initial Temp: *18.88*
Corrected Temp: *18.88*
IR Gun # *210*
Special Instructions/Note:

- Preservation Codes:
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - NaHSO4
 - F - MeOH
 - G - Amorph
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - M - Hexane
 - N - None
 - O - AsH2O2
 - P - Na2CO3
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Dodecahydrate
 - U - Acetone
 - V - MCAA
 - W - pH 4-5
 - Z - other (specify)

Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-148055-1

Login Number: 148055

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moffitt, Heather

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	