



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

810-139918-1

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: 810-139918-1

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: 810-139918-1

Job ID: 810-139918-1

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Job Narrative 810-139918-1

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 3/4/2025 9:15 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 2.6°C.

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18-Renobeth ARV (810-139918-1), Y01-Yadkin Finished Water (810-139918-2) and Y02-Yadkin Raw Water (810-139918-3)

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: 810-139918-1

Client Sample ID: J18-Renobeth ARV

Lab Sample ID: 810-139918-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2		2.0		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	5.1		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.3		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0		ng/L	1		533	Total/NA

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-139918-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.1		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9		ng/L	1		533	Total/NA

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-139918-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4		2.0		ng/L	1		533	Total/NA
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)	2.3		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		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: 810-139918-1

Client Sample ID: J18-Renobeth ARV

Lab Sample ID: 810-139918-1

Date Collected: 03/03/25 09:41

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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)	3.2		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoropentanoic acid (PFPeA)	5.1		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorohexanoic acid (PFHxA)	5.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorooctanoic acid (PFOA)	3.3		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 10:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C5 PFPeA	111		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C5 PFHxA	96		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C4 PFHpA	95		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C8 PFOA	96		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C9 PFNA	91		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C6 PFDA	90		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C7 PFUnA	88		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C2 PFDoA	85		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C3 HFPO-DA	95		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C3 PFBS	100		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C8 PFOS	101		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C2-4:2-FTS	109		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C2-6:2-FTS	103		50 - 200	03/05/25 08:22	03/06/25 10:14	1

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Client Sample Results

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

Job ID: 810-139918-1

Client Sample ID: J18-Renobeth ARV

Lab Sample ID: 810-139918-1

Date Collected: 03/03/25 09:41

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2-FTS	107		50 - 200	03/05/25 08:22	03/06/25 10:14	1
13C3 PFHxS	102		50 - 200	03/05/25 08:22	03/06/25 10:14	1

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-139918-2

Date Collected: 03/03/25 11:32

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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)	2.1		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoropentanoic acid (PFPeA)	2.1		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		03/05/25 08:22	03/06/25 10:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C5 PFPeA	107		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C5 PFHxA	93		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C4 PFHpA	94		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C8 PFOA	92		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C9 PFNA	89		50 - 200	03/05/25 08:22	03/06/25 10:27	1

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Client Sample Results

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

Job ID: 810-139918-1

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-139918-2

Date Collected: 03/03/25 11:32

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	85		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C7 PFOuA	89		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C2 PFDoA	88		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C3 HFPO-DA	93		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C3 PFBS	101		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C8 PFOS	101		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C2-4:2-FTS	101		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C2-6:2-FTS	99		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C2-8:2-FTS	105		50 - 200	03/05/25 08:22	03/06/25 10:27	1
13C3 PFHxS	100		50 - 200	03/05/25 08:22	03/06/25 10:27	1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-139918-3

Date Collected: 03/03/25 11:45

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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)	2.4		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoropentanoic acid (PFPeA)	2.1		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorohexanoic acid (PFHxA)	2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorooctanoic acid (PFOA)	2.3		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoroundecanoic acid (PFUuA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluorooctanesulfonic acid (PFOS)	3.3		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-139918-1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-139918-3

Date Collected: 03/03/25 11:45

Matrix: Drinking Water

Date Received: 03/04/25 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		03/05/25 08:22	03/06/25 11:21	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	105		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C5 PFPeA	118		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C5 PFHxA	104		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C4 PFHpA	104		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C8 PFOA	103		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C9 PFNA	105		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C6 PFDA	102		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C7 PFUnA	105		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C2 PFDoA	103		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C3 HFPO-DA	100		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C3 PFBS	103		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C8 PFOS	104		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C2-4:2-FTS	117		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C2-6:2-FTS	101		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C2-8:2-FTS	109		50 - 200				03/05/25 08:22	03/06/25 11:21	1
13C3 PFHxS	103		50 - 200				03/05/25 08:22	03/06/25 11:21	1

Isotope Dilution Summary

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

Job ID: 810-139918-1

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)
810-139918-1	J18-Renobeth ARV	100	111	96	95	96	91	90	88
810-139918-2	Y01-Yadkin Finished Water	101	107	93	94	92	89	85	89
810-139918-3	Y02-Yadkin Raw Water	105	118	104	104	103	105	102	105
LCS 810-135380/3-A	Lab Control Sample	101	101	95	98	102	101	100	98
LLCS 810-135380/2-A	Lab Control Sample	100	97	96	98	101	107	103	103
MBL 810-135380/1-A	Method Blank	99	97	94	98	98	103	101	100

		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)
810-139918-1	J18-Renobeth ARV	85	95	100	101	109	103	107	102
810-139918-2	Y01-Yadkin Finished Water	88	93	101	101	101	99	105	100
810-139918-3	Y02-Yadkin Raw Water	103	100	103	104	117	101	109	103
LCS 810-135380/3-A	Lab Control Sample	98	98	103	104	97	109	111	105
LLCS 810-135380/2-A	Lab Control Sample	102	96	104	103	89	95	107	105
MBL 810-135380/1-A	Method Blank	100	94	99	99	86	93	106	101

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: 810-139918-1

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

Lab Sample ID: MBL 810-135380/1-A
Matrix: Drinking Water
Analysis Batch: 135490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135380

Analyte	MBL	MBL	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		03/05/25 08:22	03/06/25 08:13	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	99		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C5 PFPeA	97		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C5 PFHxA	94		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C4 PFHpA	98		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C8 PFOA	98		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C9 PFNA	103		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C6 PFDA	101		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C7 PFUnA	100		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C2 PFDoA	100		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C3 HFPO-DA	94		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C3 PFBS	99		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C8 PFOS	99		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C2-4:2-FTS	86		50 - 200	03/05/25 08:22	03/06/25 08:13	1

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-139918-1

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

Lab Sample ID: MBL 810-135380/1-A
Matrix: Drinking Water
Analysis Batch: 135490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135380

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	93		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C2-8:2-FTS	106		50 - 200	03/05/25 08:22	03/06/25 08:13	1
13C3 PFHxS	101		50 - 200	03/05/25 08:22	03/06/25 08:13	1

Lab Sample ID: LCS 810-135380/3-A
Matrix: Drinking Water
Analysis Batch: 135490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	200	192		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	200	195		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	194		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	200	192		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	200	192		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	200	195		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	198		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	200	197		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	178	173		ng/L		97	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	188	182		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	175		ng/L		96	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	191	187		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	186	176		ng/L		95	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	178	172		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	188	185		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190	192		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192	198		ng/L		103	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	195		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	187		ng/L		99	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	175		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	176		ng/L		93	70 - 130
Perfluoro(4-methoxybutanoic acid)	200	190		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	187		ng/L		93	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: 810-139918-1

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	101		50 - 200
13C5 PFPeA	101		50 - 200
13C5 PFHxA	95		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	101		50 - 200
13C6 PFDA	100		50 - 200
13C7 PFUnA	98		50 - 200
13C2 PFDoA	98		50 - 200
13C3 HFPO-DA	98		50 - 200
13C3 PFBS	103		50 - 200
13C8 PFOS	104		50 - 200
13C2-4:2-FTS	97		50 - 200
13C2-6:2-FTS	109		50 - 200
13C2-8:2-FTS	111		50 - 200
13C3 PFHxS	105		50 - 200

Lab Sample ID: LLCS 810-135380/2-A

Matrix: Drinking Water

Analysis Batch: 135490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135380

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.02		ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.87	J	ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.91	J	ng/L		95	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		100	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.64	J	ng/L		93	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.60	J	ng/L		85	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.71	J	ng/L		94	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.83	J	ng/L		96	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.74	J	ng/L		94	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.78	1.74	J	ng/L		98	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.90	J	ng/L		101	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.94	J	ng/L		102	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.96	J	ng/L		102	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	1.87	J	ng/L		99	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-139918-1

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

Lab Sample ID: LLCS 810-135380/2-A

Matrix: Drinking Water

Analysis Batch: 135490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135380

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.67	J	ng/L		90	50 - 150
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	1.89	1.69	J	ng/L		89	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.91	J	ng/L		96	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.87	J	ng/L		94	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	100		50 - 200
13C5 PFPeA	97		50 - 200
13C5 PFHxA	96		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	101		50 - 200
13C9 PFNA	107		50 - 200
13C6 PFDA	103		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	102		50 - 200
13C3 HFPO-DA	96		50 - 200
13C3 PFBS	104		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	95		50 - 200
13C2-8:2-FTS	107		50 - 200
13C3 PFHxS	105		50 - 200

QC Association Summary

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

Job ID: 810-139918-1

LCMS

Prep Batch: 135380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-139918-1	J18-Renobeth ARV	Total/NA	Drinking Water	533	
810-139918-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	
810-139918-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-135380/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-135380/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-135380/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 135490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-139918-1	J18-Renobeth ARV	Total/NA	Drinking Water	533	135380
810-139918-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	135380
810-139918-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	135380
MBL 810-135380/1-A	Method Blank	Total/NA	Drinking Water	533	135380
LCS 810-135380/3-A	Lab Control Sample	Total/NA	Drinking Water	533	135380
LLCS 810-135380/2-A	Lab Control Sample	Total/NA	Drinking Water	533	135380



Lab Chronicle

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

Job ID: 810-139918-1

Client Sample ID: J18-Renobeth ARV

Lab Sample ID: 810-139918-1

Date Collected: 03/03/25 09:41

Matrix: Drinking Water

Date Received: 03/04/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			135380	MM	EA SB	03/05/25 08:22
Total/NA	Analysis	533		1	135490	MH	EA SB	03/06/25 10:14

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-139918-2

Date Collected: 03/03/25 11:32

Matrix: Drinking Water

Date Received: 03/04/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			135380	MM	EA SB	03/05/25 08:22
Total/NA	Analysis	533		1	135490	MH	EA SB	03/06/25 10:27

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-139918-3

Date Collected: 03/03/25 11:45

Matrix: Drinking Water

Date Received: 03/04/25 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			135380	MM	EA SB	03/05/25 08:22
Total/NA	Analysis	533		1	135490	MH	EA SB	03/06/25 11:21

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: 810-139918-1

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-Chloroeicosafluoro-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: 810-139918-1

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: 810-139918-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-139918-1	J18-Renobeth ARV	Drinking Water	03/03/25 09:41	03/04/25 09:15
810-139918-2	Y01-Yadkin Finished Water	Drinking Water	03/03/25 11:32	03/04/25 09:15
810-139918-3	Y02-Yadkin Raw Water	Drinking Water	03/03/25 11:45	03/04/25 09:15

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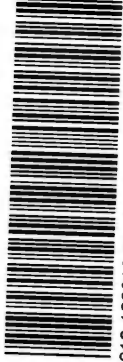
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NO: -52863-6174.1
Page 1 of 1

810-139918 Chain of Custody

Lab PM: Mattheis, Joe
E-Mail: Joe.Mattheis@et.eurofinsus.com

Sampler: **Deryl Ennis**
Phone: 704-506-9683
PWSID:

Client Information
Justin Huntley
Union County Water
Address: 500 N Main St.
City: Monroe
State, Zip: NC, 28112
Phone: 704-289-3307 (Tel)
Email: Justin.Huntley@UnionCountyNC.gov
Project Name: PFAS - 533
Site:

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
PO #: Purchase Order not required
WO #:
Project #: 81004979
SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	533 - (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
518- Renobeth ARV	3/3/25	0941	G	drinking Water					
Y01- Yadkin Finished Water	3/3/25	1132	G	drinking Water					
Y02- Yadkin Raw Water	3/3/25	1745	G	drinking Water					Initial Temp. 29.2, 6.0 Corrected Temp. 29.2 IR Gun # 912

Analysis Requested

Preservation Codes:
J - NH4 Acetate

Other:

Special Instructions/Note:

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Deryl Ennis* Date/Time: 3-3-25 12:21 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

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



Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-139918-1

Login Number: 139918

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Blackburn, Kelly

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	
Container provided by EEA	True	