

 **ANALYTICAL REPORT****PREPARED FOR**

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Union County Water
500 N Main St.
Monroe, North Carolina 28112

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JOB DESCRIPTION

PFAS - 533

JOB NUMBER

810-106856-1

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: 810-106856-1

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.
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: Union County Water
Project: PFAS - 533

Job ID: 810-106856-1

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Job Narrative 810-106856-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 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 6/4/2024 9:00 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 2.2°C.

PFAS

Method 533: The pH of the following sample was adjusted to pH 7 in the laboratory:.

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

Eurofins Eaton Analytical South Bend

Detection Summary

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

Job ID: 810-106856-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-106856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.4		2.0		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	14		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	12		2.0		ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	5.5		2.0		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.8		2.0		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L	1		533	Total/NA

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-106856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.0		2.0		ng/L	1		533	Total/NA

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-106856-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.9		1.9		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		1.9		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-106856-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-106856-1

Date Collected: 06/03/24 09:44

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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)	7.4		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoropentanoic acid (PFPeA)	14		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorohexanoic acid (PFHxA)	12		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoroheptanoic acid (PFHpA)	3.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorooctanoic acid (PFOA)	5.5		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorobutanesulfonic acid (PFBS)	4.8		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C5 PFPeA	101		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C5 PFHxA	91		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C4 PFHpA	93		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C8 PFOA	94		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C9 PFNA	94		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C6 PFDA	84		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C7 PFUnA	71		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C2 PFDoA	64		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C3 HFPO-DA	95		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C3 PFBS	98		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C8 PFOS	96		50 - 200				06/05/24 08:25	06/06/24 02:37	1
13C2-4:2-FTS	84		50 - 200				06/05/24 08:25	06/06/24 02:37	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-106856-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-106856-1

Date Collected: 06/03/24 09:44

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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	91		50 - 200	06/05/24 08:25	06/06/24 02:37	1
13C2-8:2-FTS	101		50 - 200	06/05/24 08:25	06/06/24 02:37	1
13C3 PFHxS	97		50 - 200	06/05/24 08:25	06/06/24 02:37	1

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-106856-2

Date Collected: 06/03/24 11:21

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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		06/05/24 08:25	06/06/24 02:50	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		06/05/24 08:25	06/06/24 02:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C5 PFPeA	97		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C5 PFHxA	93		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C4 PFHpA	98		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C8 PFOA	100		50 - 200	06/05/24 08:25	06/06/24 02:50	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-106856-1

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-106856-2

Date Collected: 06/03/24 11:21

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	101		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C6 PFDA	93		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C7 PFUnA	91		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C2 PFDoA	81		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C3 HFPO-DA	94		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C3 PFBS	98		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C8 PFOS	97		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C2-4:2-FTS	83		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C2-6:2-FTS	94		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C2-8:2-FTS	101		50 - 200	06/05/24 08:25	06/06/24 02:50	1
13C3 PFHxS	98		50 - 200	06/05/24 08:25	06/06/24 02:50	1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-106856-3

Date Collected: 06/03/24 11:26

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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)	2.4		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoropentanoic acid (PFPeA)	2.5		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorohexanoic acid (PFHxA)	2.5		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorooctanoic acid (PFOA)	2.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluorooctanesulfonic acid (PFOS)	4.6		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-106856-1

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-106856-3

Date Collected: 06/03/24 11:26

Matrix: Drinking Water

Date Received: 06/04/24 09:00

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)	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		06/05/24 08:25	06/06/24 03:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C5 PFPeA	96		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C5 PFHxA	95		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C4 PFHpA	94		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C8 PFOA	94		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C9 PFNA	93		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C6 PFDA	84		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C7 PFUnA	82		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C2 PFDoA	90		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C3 HFPO-DA	96		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C3 PFBS	96		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C8 PFOS	94		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C2-4:2-FTS	87		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C2-6:2-FTS	92		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C2-8:2-FTS	98		50 - 200				06/05/24 08:25	06/06/24 03:04	1
13C3 PFHxS	96		50 - 200				06/05/24 08:25	06/06/24 03:04	1

Isotope Dilution Summary

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

Job ID: 810-106856-1

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)
810-106856-1	J18-Rehobeth ARV	97	101	91	93	94	94	84	71
810-106856-2	Y01-Yadkin Finished Water	99	97	93	98	100	101	93	91
810-106856-3	Y02-Yadkin Raw Water	99	96	95	94	94	93	84	82
LCS 810-101476/3-A	Lab Control Sample	102	101	96	99	97	96	97	97
LLCS 810-101476/2-A	Lab Control Sample	101	100	97	99	99	101	98	97
MBL 810-101476/1-A	Method Blank	97	98	95	93	97	101	94	95

		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)
810-106856-1	J18-Rehobeth ARV	64	95	98	96	84	91	101	97
810-106856-2	Y01-Yadkin Finished Water	81	94	98	97	83	94	101	98
810-106856-3	Y02-Yadkin Raw Water	90	96	96	94	87	92	98	96
LCS 810-101476/3-A	Lab Control Sample	97	101	98	97	94	103	104	100
LLCS 810-101476/2-A	Lab Control Sample	96	98	100	100	83	92	98	100
MBL 810-101476/1-A	Method Blank	91	95	97	99	84	91	97	96

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: 810-106856-1

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

Lab Sample ID: MBL 810-101476/1-A
Matrix: Drinking Water
Analysis Batch: 101509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101476

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		06/05/24 08:25	06/05/24 23:54	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C5 PFPeA	98		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C5 PFHxA	95		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C4 PFHpA	93		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C8 PFOA	97		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C9 PFNA	101		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C6 PFDA	94		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C7 PFUnA	95		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C2 PFDoA	91		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C3 HFPO-DA	95		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C3 PFBS	97		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C8 PFOS	99		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C2-4:2-FTS	84		50 - 200	06/05/24 08:25	06/05/24 23:54	1

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-106856-1

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

Lab Sample ID: MBL 810-101476/1-A
Matrix: Drinking Water
Analysis Batch: 101509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101476

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	91		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C2-8:2-FTS	97		50 - 200	06/05/24 08:25	06/05/24 23:54	1
13C3 PFHxS	96		50 - 200	06/05/24 08:25	06/05/24 23:54	1

Lab Sample ID: LCS 810-101476/3-A
Matrix: Drinking Water
Analysis Batch: 101509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	400	397		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	400	405		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	400	397		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	400	417		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	400	404		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	400	403		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	400	403		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	400	390		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	355	369		ng/L		104	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	376	374		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	365	367		ng/L		100	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	382	403		ng/L		106	70 - 130
Perfluorooctanesulfonic acid (PFOS)	371	381		ng/L		103	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	357	392		ng/L		110	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	375	383		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	381	395		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	384	381		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	400	405		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	378	376		ng/L		99	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	374	381		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	378	384		ng/L		102	70 - 130
Perfluoro(4-methoxybutanoic acid)	400	404		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	400	400		ng/L		100	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	400	399		ng/L		100	70 - 130

QC Sample Results

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

Job ID: 810-106856-1

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	102		50 - 200
13C5 PFPeA	101		50 - 200
13C5 PFHxA	96		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	97		50 - 200
13C9 PFNA	96		50 - 200
13C6 PFDA	97		50 - 200
13C7 PFUnA	97		50 - 200
13C2 PFDoA	97		50 - 200
13C3 HFPO-DA	101		50 - 200
13C3 PFBS	98		50 - 200
13C8 PFOS	97		50 - 200
13C2-4:2-FTS	94		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	104		50 - 200
13C3 PFHxS	100		50 - 200

Lab Sample ID: LLCS 810-101476/2-A

Matrix: Drinking Water

Analysis Batch: 101509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101476

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.05		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.03		ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.70	J	ng/L		96	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.76	J	ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.78	J	ng/L		97	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.75	J	ng/L		92	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.88	J	ng/L		101	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	2.10		ng/L		118	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.84	J	ng/L		98	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.97	J	ng/L		103	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.94	J	ng/L		101	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	1.86	J	ng/L		98	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-106856-1

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

Lab Sample ID: LLCS 810-101476/2-A
Matrix: Drinking Water
Analysis Batch: 101509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101476

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.87	1.86	J	ng/L		100	50 - 150
11-Chloroeicosfluoro-3-oxaund ecane-1-sulfonic acid	1.89	1.91	J	ng/L		101	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.00		ng/L		100	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.95	J	ng/L		97	50 - 150

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	101		50 - 200
13C5 PFPeA	100		50 - 200
13C5 PFHxA	97		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	99		50 - 200
13C9 PFNA	101		50 - 200
13C6 PFDA	98		50 - 200
13C7 PFUnA	97		50 - 200
13C2 PFDoA	96		50 - 200
13C3 HFPO-DA	98		50 - 200
13C3 PFBS	100		50 - 200
13C8 PFOS	100		50 - 200
13C2-4:2-FTS	83		50 - 200
13C2-6:2-FTS	92		50 - 200
13C2-8:2-FTS	98		50 - 200
13C3 PFHxS	100		50 - 200

QC Association Summary

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

Job ID: 810-106856-1

LCMS

Prep Batch: 101476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106856-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	
810-106856-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	
810-106856-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-101476/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-101476/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-101476/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 101509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-106856-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	101476
810-106856-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	101476
810-106856-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	101476
MBL 810-101476/1-A	Method Blank	Total/NA	Drinking Water	533	101476
LCS 810-101476/3-A	Lab Control Sample	Total/NA	Drinking Water	533	101476
LLCS 810-101476/2-A	Lab Control Sample	Total/NA	Drinking Water	533	101476



Lab Chronicle

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

Job ID: 810-106856-1

Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-106856-1

Date Collected: 06/03/24 09:44

Matrix: Drinking Water

Date Received: 06/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			101476	KB	EA SB	06/05/24 08:25
Total/NA	Analysis	533		1	101509	PP	EA SB	06/06/24 02:37

Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-106856-2

Date Collected: 06/03/24 11:21

Matrix: Drinking Water

Date Received: 06/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			101476	KB	EA SB	06/05/24 08:25
Total/NA	Analysis	533		1	101509	PP	EA SB	06/06/24 02:50

Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-106856-3

Date Collected: 06/03/24 11:26

Matrix: Drinking Water

Date Received: 06/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			101476	KB	EA SB	06/05/24 08:25
Total/NA	Analysis	533		1	101509	PP	EA SB	06/06/24 03:04

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: 810-106856-1

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	07-31-24

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: 810-106856-1

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: 810-106856-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-106856-1	J18-Rehobeth ARV	Drinking Water	06/03/24 09:44	06/04/24 09:00
810-106856-2	Y01-Yadkin Finished Water	Drinking Water	06/03/24 11:21	06/04/24 09:00
810-106856-3	Y02-Yadkin Raw Water	Drinking Water	06/03/24 11:26	06/04/24 09:00

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Send

Chain of Custody Record



810-106856 Chain of Custody

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: PFA5 - 533

Site:

Sampler: Jordan Heirs
Phone: 980-269-7128

Lab Pct: Mathis, Joe
E-Mail: Joe.Mathis@et.eurofins.com

Carrier Tracking No(s):
State of Origin:

COC No: 810-34244-6174.1
Page: Page 1 of 1

Analysis Requested

Preservation Codes:
1 - NH4 Acetate

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Urine, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
518- Renobeth ARV	6/3/24	9:44A	G	Drinking Water				
Y01- Yodkin Finished Water	6/3/24	11:21A	G	Drinking Water				
Y02- Yodkin Raw Water	6/3/24	11:26A	G	Drinking Water				

Initial Temp: 3.0
Corrected Temp: 2.2
IR Gun # 18

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

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

Relinquished by: *Jordan Heirs* Date/Time: 6/3/24 1:45P Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: *W* Date/Time: 6-4-24 0900 Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: *W*

Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-106856-1

Login Number: 106856

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: DePriest, Kellie

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	