

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Huntley
Union County Water
500 N Main St.
Monroe, North Carolina 28112

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JOB DESCRIPTION

PFAS - 533

JOB NUMBER

810-91589-1

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: 810-91589-1

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: 810-91589-1

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Job Narrative 810-91589-1

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 1/25/2024 9:30 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 11.2°C

PFAS

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: 810-91589-1

Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-91589-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.5		2.0		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	5.9		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.5		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		2.0		ng/L	1		533	Total/NA

Client Sample ID: T07 - HWY 74 E BPS

Lab Sample ID: 810-91589-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	2.7		2.0		ng/L	1		533	Total/NA

Client Sample ID: NOR - Norwood WTP

Lab Sample ID: 810-91589-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.3		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.4		2.0		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: 810-91589-1

Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-91589-1

Date Collected: 01/23/24 09:12

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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)	2.5		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoropentanoic acid (PFPeA)	5.9		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorohexanoic acid (PFHxA)	5.5		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorooctanoic acid (PFOA)	3.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluorooctanesulfonic acid (PFOS)	2.6		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C5 PFPeA	84		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C5 PFHxA	83		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C4 PFHpA	81		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C8 PFOA	78		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C9 PFNA	76		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C6 PFDA	73		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C7 PFUnA	73		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C2 PFDoA	71		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C3 HFPO-DA	87		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C3 PFBS	91		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C8 PFOS	83		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C2-4:2-FTS	107		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C2-6:2-FTS	97		50 - 200	01/29/24 08:13	01/31/24 19:26	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-91589-1

Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-91589-1

Date Collected: 01/23/24 09:12

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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	92		50 - 200	01/29/24 08:13	01/31/24 19:26	1
13C3 PFHxS	82		50 - 200	01/29/24 08:13	01/31/24 19:26	1

Client Sample ID: T07 - HWY 74 E BPS

Lab Sample ID: 810-91589-2

Date Collected: 01/23/24 10:00

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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		01/29/24 08:13	01/31/24 19:40	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluorooctanesulfonic acid (PFOS)	2.7		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:40	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	83		50 - 200	01/29/24 08:13	01/31/24 19:40	1			
13C5 PFPeA	77		50 - 200	01/29/24 08:13	01/31/24 19:40	1			
13C5 PFHxA	81		50 - 200	01/29/24 08:13	01/31/24 19:40	1			
13C4 PFHpA	81		50 - 200	01/29/24 08:13	01/31/24 19:40	1			
13C8 PFOA	79		50 - 200	01/29/24 08:13	01/31/24 19:40	1			
13C9 PFNA	79		50 - 200	01/29/24 08:13	01/31/24 19:40	1			

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-91589-1

Client Sample ID: T07 - HWY 74 E BPS

Lab Sample ID: 810-91589-2

Date Collected: 01/23/24 10:00

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	76		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C7 PFUnA	74		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C2 PFDoA	71		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C3 HFPO-DA	88		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C3 PFBS	84		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C8 PFOS	81		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C2-4:2-FTS	108		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C2-6:2-FTS	99		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C2-8:2-FTS	90		50 - 200	01/29/24 08:13	01/31/24 19:40	1
13C3 PFHxS	84		50 - 200	01/29/24 08:13	01/31/24 19:40	1

Client Sample ID: NOR - Norwood WTP

Lab Sample ID: 810-91589-3

Date Collected: 01/23/24 10:51

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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		01/29/24 08:13	01/31/24 19:54	1
Perfluoropentanoic acid (PFPeA)	2.3		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorohexanoic acid (PFHxA)	2.3		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorooctanoic acid (PFOA)	2.6		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluorooctanesulfonic acid (PFOS)	4.4		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		01/29/24 08:13	01/31/24 19:54	1

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-91589-1

Client Sample ID: NOR - Norwood WTP

Lab Sample ID: 810-91589-3

Date Collected: 01/23/24 10:51

Matrix: Drinking Water

Date Received: 01/25/24 09:30

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		01/29/24 08:13	01/31/24 19:54	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	80		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C5 PFPeA	76		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C5 PFHxA	79		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C4 PFHpA	78		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C8 PFOA	75		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C9 PFNA	73		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C6 PFDA	68		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C7 PFUnA	66		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C2 PFDoA	66		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C3 HFPO-DA	81		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C3 PFBS	79		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C8 PFOS	79		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C2-4:2-FTS	107		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C2-6:2-FTS	95		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C2-8:2-FTS	91		50 - 200				01/29/24 08:13	01/31/24 19:54	1
13C3 PFHxS	80		50 - 200				01/29/24 08:13	01/31/24 19:54	1

Isotope Dilution Summary

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

Job ID: 810-91589-1

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)
810-91589-1	J18 - Rehobeth ARV	84	84	83	81	78	76	73	73
810-91589-2	T07 - HWY 74 E BPS	83	77	81	81	79	79	76	74
810-91589-3	NOR - Norwood WTP	80	76	79	78	75	73	68	66
LCS 810-86985/3-A	Lab Control Sample	82	83	81	82	81	81	81	79
LLCS 810-86985/2-A	Lab Control Sample	76	79	77	76	76	72	71	71
MBL 810-86985/1-A	Method Blank	75	78	77	76	75	75	73	72

		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)
810-91589-1	J18 - Rehobeth ARV	71	87	91	83	107	97	92	82
810-91589-2	T07 - HWY 74 E BPS	71	88	84	81	108	99	90	84
810-91589-3	NOR - Norwood WTP	66	81	79	79	107	95	91	80
LCS 810-86985/3-A	Lab Control Sample	79	86	81	81	86	85	85	80
LLCS 810-86985/2-A	Lab Control Sample	70	76	84	75	86	80	78	80
MBL 810-86985/1-A	Method Blank	70	77	69	74	74	77	74	75

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: 810-91589-1

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

Lab Sample ID: MBL 810-86985/1-A
Matrix: Drinking Water
Analysis Batch: 87205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86985

Analyte	MBL	MBL	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		01/29/24 08:13	01/31/24 17:48	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	75		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C5 PFPeA	78		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C5 PFHxA	77		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C4 PFHpA	76		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C8 PFOA	75		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C9 PFNA	75		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C6 PFDA	73		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C7 PFUnA	72		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C2 PFDoA	70		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C3 HFPO-DA	77		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C3 PFBS	69		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C8 PFOS	74		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C2-4:2-FTS	74		50 - 200	01/29/24 08:13	01/31/24 17:48	1

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-91589-1

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

Lab Sample ID: MBL 810-86985/1-A
Matrix: Drinking Water
Analysis Batch: 87205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86985

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	77		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C2-8:2-FTS	74		50 - 200	01/29/24 08:13	01/31/24 17:48	1
13C3 PFHxS	75		50 - 200	01/29/24 08:13	01/31/24 17:48	1

Lab Sample ID: LCS 810-86985/3-A
Matrix: Drinking Water
Analysis Batch: 87205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	200	194		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	200	195		ng/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	194		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	200	195		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	200	195		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	200	194		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	194		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	200	196		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	178	180		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	188	183		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	178		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	191	182		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	186	178		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	178	174		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	188	181		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190	199		ng/L		105	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192	193		ng/L		101	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	199		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	183		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	175		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	177		ng/L		94	70 - 130
Perfluoro(4-methoxybutanoic acid)	200	197		ng/L		99	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	207		ng/L		103	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	200	197		ng/L		99	70 - 130

QC Sample Results

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

Job ID: 810-91589-1

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	82		50 - 200
13C5 PFPeA	83		50 - 200
13C5 PFHxA	81		50 - 200
13C4 PFHpA	82		50 - 200
13C8 PFOA	81		50 - 200
13C9 PFNA	81		50 - 200
13C6 PFDA	81		50 - 200
13C7 PFUnA	79		50 - 200
13C2 PFDoA	79		50 - 200
13C3 HFPO-DA	86		50 - 200
13C3 PFBS	81		50 - 200
13C8 PFOS	81		50 - 200
13C2-4:2-FTS	86		50 - 200
13C2-6:2-FTS	85		50 - 200
13C2-8:2-FTS	85		50 - 200
13C3 PFHxS	80		50 - 200

Lab Sample ID: LLCS 810-86985/2-A

Matrix: Drinking Water

Analysis Batch: 87205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86985

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	2.02		ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.03		ng/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.00		ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.72	J	ng/L		97	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.87	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.76	J	ng/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.90	J	ng/L		100	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.85	J	ng/L		100	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	1.52	J	ng/L		85	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.93	J	ng/L		103	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	2.14		ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.99	J	ng/L		104	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.95	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.82	J	ng/L		96	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-91589-1

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

Lab Sample ID: LLCS 810-86985/2-A

Matrix: Drinking Water

Analysis Batch: 87205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86985

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.87	1.75	J	ng/L		94	50 - 150
11-Chloroeicosfluoro-3-oxaund ecane-1-sulfonic acid	1.89	1.74	J	ng/L		92	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.04		ng/L		102	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	2.18		ng/L		109	50 - 150

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	76		50 - 200
13C5 PFPeA	79		50 - 200
13C5 PFHxA	77		50 - 200
13C4 PFHpA	76		50 - 200
13C8 PFOA	76		50 - 200
13C9 PFNA	72		50 - 200
13C6 PFDA	71		50 - 200
13C7 PFUnA	71		50 - 200
13C2 PFDoA	70		50 - 200
13C3 HFPO-DA	76		50 - 200
13C3 PFBS	84		50 - 200
13C8 PFOS	75		50 - 200
13C2-4:2-FTS	86		50 - 200
13C2-6:2-FTS	80		50 - 200
13C2-8:2-FTS	78		50 - 200
13C3 PFHxS	80		50 - 200

QC Association Summary

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

Job ID: 810-91589-1

LCMS

Prep Batch: 86985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91589-1	J18 - Rehobeth ARV	Total/NA	Drinking Water	533	
810-91589-2	T07 - HWY 74 E BPS	Total/NA	Drinking Water	533	
810-91589-3	NOR - Norwood WTP	Total/NA	Drinking Water	533	
MBL 810-86985/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-86985/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-86985/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 87205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91589-1	J18 - Rehobeth ARV	Total/NA	Drinking Water	533	86985
810-91589-2	T07 - HWY 74 E BPS	Total/NA	Drinking Water	533	86985
810-91589-3	NOR - Norwood WTP	Total/NA	Drinking Water	533	86985
MBL 810-86985/1-A	Method Blank	Total/NA	Drinking Water	533	86985
LCS 810-86985/3-A	Lab Control Sample	Total/NA	Drinking Water	533	86985
LLCS 810-86985/2-A	Lab Control Sample	Total/NA	Drinking Water	533	86985

Lab Chronicle

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

Job ID: 810-91589-1

Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-91589-1

Date Collected: 01/23/24 09:12

Matrix: Drinking Water

Date Received: 01/25/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			86985	RR	EA SB	01/29/24 08:13
Total/NA	Analysis	533		1	87205	KB	EA SB	01/31/24 19:26

Client Sample ID: T07 - HWY 74 E BPS

Lab Sample ID: 810-91589-2

Date Collected: 01/23/24 10:00

Matrix: Drinking Water

Date Received: 01/25/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			86985	RR	EA SB	01/29/24 08:13
Total/NA	Analysis	533		1	87205	KB	EA SB	01/31/24 19:40

Client Sample ID: NOR - Norwood WTP

Lab Sample ID: 810-91589-3

Date Collected: 01/23/24 10:51

Matrix: Drinking Water

Date Received: 01/25/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			86985	RR	EA SB	01/29/24 08:13
Total/NA	Analysis	533		1	87205	KB	EA SB	01/31/24 19:54

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: 810-91589-1

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: 810-91589-1

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: 810-91589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-91589-1	J18 - Rehobeth ARV	Drinking Water	01/23/24 09:12	01/25/24 09:30
810-91589-2	T07 - HWY 74 E BPS	Drinking Water	01/23/24 10:00	01/25/24 09:30
810-91589-3	NOR - Norwood WTP	Drinking Water	01/23/24 10:51	01/25/24 09:30

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

Sampler: Chris Tye
 Phone: 980-417-9078
 Lab PM: Mattheis, Joe
 E-Mail: Joe.Mattheis@et.eurofinsus.com
 State of Origin: NC
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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, Swill, On-site)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - (MOD) Local Method
J18-Redobeth ARV	1/23/24	9:12 AM	G	Drinking Water			<input checked="" type="checkbox"/>
TOT - Hwy 74 E BPS	1/23/24	10:00 AM	G	Drinking Water			<input checked="" type="checkbox"/>
NOR - Norwood WTP	1/23/24	10:51 AM	G	Drinking Water			<input checked="" type="checkbox"/>

Analysis Requested

Barcode: 810-91589 Chain of Custody

Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Nitric Acid
R - NaHSO4
S - Na2SO3
T - H2SO4
U - Acetone
V - MCAA
W - pH 4-5
X - Trizma
Y - Trizma
Z - other (specify)

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

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: Chris Tye
 Relinquished by: [Signature]
 Date/Time: 1/23/24 12:16 PM
 Company: [Blank]

Received by: [Signature]
 Date/Time: 1/25/24 9:30 am
 Company: FEET
 Received by: [Blank]
 Date/Time: [Blank]
 Company: [Blank]



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Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-91589-1

Login Number: 91589

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moffitt, Tisha

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	

