

# ANALYTICAL REPORT

## PREPARED FOR

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Monroe, North Carolina 28112

Generated 4/9/2025 2:50:12 AM

## JOB DESCRIPTION

PFAS - 533

## JOB NUMBER

810-143492-1

# Eurofins Eaton Analytical South Bend

## Job Notes

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## Authorization



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# Definitions/Glossary

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

Job ID: 810-143492-1

## 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: 810-143492-1

**Job ID: 810-143492-1**

**Eurofins Eaton Analytical South Bend**

## Job Narrative 810-143492-1

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 4/4/2025 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 samples were adjusted to pH 7.5 in the laboratory: J18 - Rehobeth ARV (810-143492-1), Y01 - Yadkin Finished Water (810-143492-2) and Y02 - Yadkin Raw Water (810-143492-3)

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: 810-143492-1

## Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-143492-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.2		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	5.0		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.1		1.9		ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		1.9		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.9		ng/L	1		533	Total/NA

## Client Sample ID: Y01 - Yadkin Finished Water

Lab Sample ID: 810-143492-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.0		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		1.9		ng/L	1		533	Total/NA

## Client Sample ID: Y02 - Yadkin Raw Water

Lab Sample ID: 810-143492-3

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)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.5		1.9		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: 810-143492-1

**Client Sample ID: J18 - Rehobeth ARV**

**Lab Sample ID: 810-143492-1**

Date Collected: 04/03/25 09:54

Matrix: Drinking Water

Date Received: 04/04/25 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)	3.2		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoropentanoic acid (PFPeA)	5.0		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorohexanoic acid (PFHxA)	5.1		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoroheptanoic acid (PFHpA)	1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorooctanoic acid (PFOA)	3.6		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluorooctanesulfonic acid (PFOS)	2.8		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:23	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	96		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C5 PFPeA	125		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C5 PFHxA	94		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C4 PFHpA	90		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C8 PFOA	93		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C9 PFNA	84		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C6 PFDA	75		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C7 PFUnA	76		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C2 PFDoA	81		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C3 HFPO-DA	87		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C3 PFBS	105		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C8 PFOS	96		50 - 200				04/07/25 08:44	04/08/25 11:23	1
13C2-4:2-FTS	131		50 - 200				04/07/25 08:44	04/08/25 11:23	1

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# Client Sample Results

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

Job ID: 810-143492-1

**Client Sample ID: J18 - Rehobeth ARV**

**Lab Sample ID: 810-143492-1**

Date Collected: 04/03/25 09:54

Matrix: Drinking Water

Date Received: 04/04/25 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	122		50 - 200	04/07/25 08:44	04/08/25 11:23	1
13C2-8:2-FTS	111		50 - 200	04/07/25 08:44	04/08/25 11:23	1
13C3 PFHxS	98		50 - 200	04/07/25 08:44	04/08/25 11:23	1

**Client Sample ID: Y01 - Yadkin Finished Water**

**Lab Sample ID: 810-143492-2**

Date Collected: 04/03/25 11:00

Matrix: Drinking Water

Date Received: 04/04/25 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>2.0</b>		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>1.9</b>		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.2</b>		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:37	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	98		50 - 200				04/07/25 08:44	04/08/25 11:37	1
13C5 PFPeA	118		50 - 200				04/07/25 08:44	04/08/25 11:37	1
13C5 PFHxA	97		50 - 200				04/07/25 08:44	04/08/25 11:37	1
13C4 PFHpA	96		50 - 200				04/07/25 08:44	04/08/25 11:37	1
13C8 PFOA	95		50 - 200				04/07/25 08:44	04/08/25 11:37	1

Eurofins Eaton Analytical South Bend

# Client Sample Results

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

Job ID: 810-143492-1

## Client Sample ID: Y01 - Yadkin Finished Water

Lab Sample ID: 810-143492-2

Date Collected: 04/03/25 11:00

Matrix: Drinking Water

Date Received: 04/04/25 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	89		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C6 PFDA	81		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C7 PFUnA	78		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C2 PFDoA	80		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C3 HFPO-DA	92		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C3 PFBS	103		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C8 PFOS	96		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C2-4:2-FTS	117		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C2-6:2-FTS	112		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C2-8:2-FTS	106		50 - 200	04/07/25 08:44	04/08/25 11:37	1
13C3 PFHxS	100		50 - 200	04/07/25 08:44	04/08/25 11:37	1

## Client Sample ID: Y02 - Yadkin Raw Water

Lab Sample ID: 810-143492-3

Date Collected: 04/03/25 10:57

Matrix: Drinking Water

Date Received: 04/04/25 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)	2.1		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoropentanoic acid (PFPeA)	1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorooctanoic acid (PFOA)	2.5		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluorooctanesulfonic acid (PFOS)	3.5		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1

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# Client Sample Results

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

Job ID: 810-143492-1

**Client Sample ID: Y02 - Yadkin Raw Water**

**Lab Sample ID: 810-143492-3**

Date Collected: 04/03/25 10:57

Matrix: Drinking Water

Date Received: 04/04/25 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		04/07/25 08:44	04/08/25 11:50	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		04/07/25 08:44	04/08/25 11:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C5 PFPeA	136		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C5 PFHxA	98		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C4 PFHpA	99		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C8 PFOA	94		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C9 PFNA	92		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C6 PFDA	86		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C7 PFUnA	81		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C2 PFDoA	82		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C3 HFPO-DA	92		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C3 PFBS	104		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C8 PFOS	98		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C2-4:2-FTS	154		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C2-6:2-FTS	121		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C2-8:2-FTS	112		50 - 200				04/07/25 08:44	04/08/25 11:50	1
13C3 PFHxS	98		50 - 200				04/07/25 08:44	04/08/25 11:50	1

# Isotope Dilution Summary

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

Job ID: 810-143492-1

## 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)
810-143492-1	J18 - Rehobeth ARV	96	125	94	90	93	84	75	76
810-143492-2	Y01 - Yadkin Finished Water	98	118	97	96	95	89	81	78
810-143492-3	Y02 - Yadkin Raw Water	98	136	98	99	94	92	86	81
LCS 810-139216/3-A	Lab Control Sample	90	92	93	94	96	95	94	95
LLCS 810-139216/2-A	Lab Control Sample	97	97	96	95	98	99	96	96
MBL 810-139216/1-A	Method Blank	95	95	92	92	94	95	93	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD <sub>o</sub> A (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-143492-1	J18 - Rehobeth ARV	81	87	105	96	131	122	111	98
810-143492-2	Y01 - Yadkin Finished Water	80	92	103	96	117	112	106	100
810-143492-3	Y02 - Yadkin Raw Water	82	92	104	98	154	121	112	98
LCS 810-139216/3-A	Lab Control Sample	94	91	97	97	97	103	100	97
LLCS 810-139216/2-A	Lab Control Sample	96	91	101	99	92	98	102	102
MBL 810-139216/1-A	Method Blank	95	87	100	96	91	95	102	100

### Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFD<sub>o</sub>A = 13C2 PFD<sub>o</sub>A
- 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: 810-143492-1

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

**Lab Sample ID: MBL 810-139216/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 139302**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 139216**

Analyte	MBL	MBL	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		04/07/25 08:44	04/08/25 06:27	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C5 PFPeA	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C5 PFHxA	92		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C4 PFHpA	92		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C8 PFOA	94		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C9 PFNA	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C6 PFDA	93		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C7 PFUnA	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C2 PFDoA	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C3 HFPO-DA	87		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C3 PFBS	100		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C8 PFOS	96		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C2-4:2-FTS	91		50 - 200	04/07/25 08:44	04/08/25 06:27	1

Eurofins Eaton Analytical South Bend

# QC Sample Results

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

Job ID: 810-143492-1

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

**Lab Sample ID: MBL 810-139216/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 139302**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 139216**

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	95		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C2-8:2-FTS	102		50 - 200	04/07/25 08:44	04/08/25 06:27	1
13C3 PFHxS	100		50 - 200	04/07/25 08:44	04/08/25 06:27	1

**Lab Sample ID: LCS 810-139216/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 139302**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 139216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	200	199		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	200	200		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	198		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	200	192		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	200	195		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	200	202		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	200	200		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	200	198		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	178	174		ng/L		98	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	188	183		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	176		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	191	190		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	186	180		ng/L		97	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	184		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	190	188		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	192	190		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	199		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	186		ng/L		98	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	181		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	180		ng/L		95	70 - 130
Perfluoro(4-methoxybutanoic acid)	200	194		ng/L		97	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	196		ng/L		98	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	200	187		ng/L		94	70 - 130

# QC Sample Results

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

Job ID: 810-143492-1

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	90		50 - 200
13C5 PFPeA	92		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	94		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	95		50 - 200
13C6 PFDA	94		50 - 200
13C7 PFUnA	95		50 - 200
13C2 PFDoA	94		50 - 200
13C3 HFPO-DA	91		50 - 200
13C3 PFBS	97		50 - 200
13C8 PFOS	97		50 - 200
13C2-4:2-FTS	97		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	100		50 - 200
13C3 PFHxS	97		50 - 200

**Lab Sample ID: LLCS 810-139216/2-A**

**Matrix: Drinking Water**

**Analysis Batch: 139302**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 139216**

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.85	J	ng/L		92	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.87	J	ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.97	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.63	J	ng/L		92	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.63	J	ng/L		87	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.67	J	ng/L		92	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.69	J	ng/L		89	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.81	J	ng/L		97	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	1.88	J	ng/L		105	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.73	J	ng/L		92	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.88	J	ng/L		99	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.73	J	ng/L		90	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	1.82	J	ng/L		96	50 - 150

Eurofins Eaton Analytical South Bend

# QC Sample Results

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

Job ID: 810-143492-1

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

**Lab Sample ID: LLCS 810-139216/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 139302**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 139216**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.87	1.58	J	ng/L		84	50 - 150
11-Chloroeicosfluoro-3-oxaund ecane-1-sulfonic acid	1.89	1.73	J	ng/L		92	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.87	J	ng/L		94	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.85	J	ng/L		93	50 - 150

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		50 - 200
13C5 PFPeA	97		50 - 200
13C5 PFHxA	96		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	98		50 - 200
13C9 PFNA	99		50 - 200
13C6 PFDA	96		50 - 200
13C7 PFUnA	96		50 - 200
13C2 PFDoA	96		50 - 200
13C3 HFPO-DA	91		50 - 200
13C3 PFBS	101		50 - 200
13C8 PFOS	99		50 - 200
13C2-4:2-FTS	92		50 - 200
13C2-6:2-FTS	98		50 - 200
13C2-8:2-FTS	102		50 - 200
13C3 PFHxS	102		50 - 200

# QC Association Summary

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

Job ID: 810-143492-1

## LCMS

### Prep Batch: 139216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-143492-1	J18 - Rehobeth ARV	Total/NA	Drinking Water	533	
810-143492-2	Y01 - Yadkin Finished Water	Total/NA	Drinking Water	533	
810-143492-3	Y02 - Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-139216/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-139216/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-139216/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

### Analysis Batch: 139302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-143492-1	J18 - Rehobeth ARV	Total/NA	Drinking Water	533	139216
810-143492-2	Y01 - Yadkin Finished Water	Total/NA	Drinking Water	533	139216
810-143492-3	Y02 - Yadkin Raw Water	Total/NA	Drinking Water	533	139216
MBL 810-139216/1-A	Method Blank	Total/NA	Drinking Water	533	139216
LCS 810-139216/3-A	Lab Control Sample	Total/NA	Drinking Water	533	139216
LLCS 810-139216/2-A	Lab Control Sample	Total/NA	Drinking Water	533	139216

# Lab Chronicle

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

Job ID: 810-143492-1

## Client Sample ID: J18 - Rehobeth ARV

Lab Sample ID: 810-143492-1

Date Collected: 04/03/25 09:54

Matrix: Drinking Water

Date Received: 04/04/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			139216	ET	EA SB	04/07/25 08:44
Total/NA	Analysis	533		1	139302	MH	EA SB	04/08/25 11:23

## Client Sample ID: Y01 - Yadkin Finished Water

Lab Sample ID: 810-143492-2

Date Collected: 04/03/25 11:00

Matrix: Drinking Water

Date Received: 04/04/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			139216	ET	EA SB	04/07/25 08:44
Total/NA	Analysis	533		1	139302	MH	EA SB	04/08/25 11:37

## Client Sample ID: Y02 - Yadkin Raw Water

Lab Sample ID: 810-143492-3

Date Collected: 04/03/25 10:57

Matrix: Drinking Water

Date Received: 04/04/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			139216	ET	EA SB	04/07/25 08:44
Total/NA	Analysis	533		1	139302	MH	EA SB	04/08/25 11:50

**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: 810-143492-1

## 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: 810-143492-1

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: 810-143492-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-143492-1	J18 - Rehobeth ARV	Drinking Water	04/03/25 09:54	04/04/25 09:00
810-143492-2	Y01 - Yadkin Finished Water	Drinking Water	04/03/25 11:00	04/04/25 09:00
810-143492-3	Y02 - Yadkin Raw Water	Drinking Water	04/03/25 10:57	04/04/25 09:00

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**Eurofins Eaton Analytical South Bend**  
 110 S Hill Street  
 South Bend, IN 46617  
 Phone: 574-233-4777 Fax: 574-233-8207

**Chain of Custody Record**

**eurofins** | Environment Testing

4979

<b>Client Information</b>		Sampler: <b>Deryl Ennis</b>	Lab P#: <b>Mattheis, Joe</b>	Carrier Tracking No(s): <b>810-52864-6174.1</b>
Company: <b>Justin Huntley Union County Water</b>		Phone: <b>980-269-7728</b>	E-Mail: <b>Joe.Mattheis@et.eurofins.com</b>	State of Origin:
Address: <b>500 N Main St</b>		Analysis Requested		
City: <b>Montroe</b>	Due Date Requested:	Preservation Codes: I - NH4 Acetate		
State, Zip: <b>NC, 28112</b>	TAT Requested (days):	Initial Temp: <b>26</b> Corrected Temp: <b>26</b>		
Phone: <b>704-289-3307 (Tel)</b>	Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Barcode: 		
Email: <b>Justin.Huntley@UnionCountyNC.gov</b>	PO #: <b>Purchase Order not required</b>	810-143492 Chain of Custody		
Project Name: <b>PFAS - 533</b>	WO #: <b>81004979</b>	Instructions/Note:		
Site:	Project #: <b>81004979</b>	533 - (MOD) Local Method		
	SSOW#:	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
<b>Sample Identification</b>	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)
<b>J18- Rebeketh ARV</b>	<b>4/3/25</b>	<b>0954</b>	<b>G</b>	<b>Drinking Water</b>
<b>Y01- Yadkin Finished Water</b>	<b>4/3/25</b>	<b>1100</b>	<b>G</b>	<b>Drinking Water</b>
<b>Y02- Yadkin Raw Water</b>	<b>4/3/25</b>	<b>1057</b>	<b>G</b>	<b>Drinking Water</b>
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)				
<b>Empty Kit Relinquished by:</b> Relinquished by: <b>Deryl Ennis</b> Date: <b>4-3-25</b> Time: <b>1153</b> Company: <b>Company</b> Relinquished by: _____ Date: _____ Time: _____ Company: _____ Relinquished by: _____ Date: _____ Time: _____ Company: _____				
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				
<b>Method of Shipment:</b> Date/Time: <b>04-04-2025 900</b> Company: <b>Company</b> Date/Time: _____ Company: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks:				

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## Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-143492-1

**Login Number: 143492**

**List Source: Eurofins Eaton Analytical South Bend**

**List Number: 1**

**Creator: Alfred, Robbin**

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	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	