



# ANALYTICAL REPORT

## PREPARED FOR

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Union County Water  
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Monroe, North Carolina 28112

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## JOB DESCRIPTION

PFAS - 533

## JOB NUMBER

810-126697-1

# 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: 810-126697-1

## 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: 810-126697-1

**Job ID: 810-126697-1**

**Eurofins Eaton Analytical South Bend**

## **Job Narrative 810-126697-1**

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 11/5/2024 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 3.8°C.

### **PFAS**

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18- Rehobeth ARV (810-126697-1), Y01- Yadkin Finished Water (810-126697-2) and Y02- Yadkin Raw Water (810-126697-3)

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: 810-126697-1

## Client Sample ID: J18- Rehobeth ARV

Lab Sample ID: 810-126697-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.4		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	6.3		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.2		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.3		1.9		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.1		1.9		ng/L	1		533	Total/NA

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-126697-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.6		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		1.9		ng/L	1		533	Total/NA

## Client Sample ID: Y02- Yadkin Raw Water

Lab Sample ID: 810-126697-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.0		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		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.

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# Client Sample Results

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

Job ID: 810-126697-1

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

**Lab Sample ID: 810-126697-1**

Date Collected: 11/04/24 11:50

Matrix: Drinking Water

Date Received: 11/05/24 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>3.4</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>6.3</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>5.2</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>3.3</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>2.0</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>3.1</b>		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 05:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C5 PFPeA	114		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C5 PFHxA	88		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C4 PFHpA	87		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C8 PFOA	90		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C9 PFNA	87		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C6 PFDA	86		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C7 PFUnA	81		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C2 PFDoA	77		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C3 HFPO-DA	84		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C3 PFBS	95		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C8 PFOS	94		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C2-4:2-FTS	98		50 - 200	11/06/24 09:18	11/07/24 05:51	1

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# Client Sample Results

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

Job ID: 810-126697-1

## Client Sample ID: J18- Rehobeth ARV

Lab Sample ID: 810-126697-1

Date Collected: 11/04/24 11:50

Matrix: Drinking Water

Date Received: 11/05/24 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	96		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C2-8:2-FTS	106		50 - 200	11/06/24 09:18	11/07/24 05:51	1
13C3 PFHxS	96		50 - 200	11/06/24 09:18	11/07/24 05:51	1

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-126697-2

Date Collected: 11/04/24 14:04

Matrix: Drinking Water

Date Received: 11/05/24 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)	2.6		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoropentanoic acid (PFPeA)	2.1		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluorooctanesulfonic acid (PFOS)	2.3		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:04	1

  

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C5 PFPeA	113		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C5 PFHxA	87		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C4 PFHpA	87		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C8 PFOA	91		50 - 200	11/06/24 09:18	11/07/24 06:04	1

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# Client Sample Results

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

Job ID: 810-126697-1

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-126697-2

Date Collected: 11/04/24 14:04

Matrix: Drinking Water

Date Received: 11/05/24 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	88		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C6 PFDA	87		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C7 PFUnA	84		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C2 PFDoA	83		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C3 HFPO-DA	85		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C3 PFBS	92		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C8 PFOS	93		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C2-4:2-FTS	92		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C2-6:2-FTS	94		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C2-8:2-FTS	105		50 - 200	11/06/24 09:18	11/07/24 06:04	1
13C3 PFHxS	93		50 - 200	11/06/24 09:18	11/07/24 06:04	1

## Client Sample ID: Y02- Yadkin Raw Water

Lab Sample ID: 810-126697-3

Date Collected: 11/04/24 14:06

Matrix: Drinking Water

Date Received: 11/05/24 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>3.0</b>		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.2</b>		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.4</b>		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>4.6</b>		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1

Eurofins Eaton Analytical South Bend

# Client Sample Results

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

Job ID: 810-126697-1

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

**Lab Sample ID: 810-126697-3**

Date Collected: 11/04/24 14:06

Matrix: Drinking Water

Date Received: 11/05/24 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-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		11/06/24 09:18	11/07/24 06:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	96		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C5 PFPeA	130		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C5 PFHxA	89		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C4 PFHpA	86		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C8 PFOA	90		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C9 PFNA	87		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C6 PFDA	87		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C7 PFUnA	83		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C2 PFDoA	81		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C3 HFPO-DA	85		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C3 PFBS	91		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C8 PFOS	96		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C2-4:2-FTS	109		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C2-6:2-FTS	96		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C2-8:2-FTS	108		50 - 200				11/06/24 09:18	11/07/24 06:17	1
13C3 PFHxS	96		50 - 200				11/06/24 09:18	11/07/24 06:17	1

# Isotope Dilution Summary

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

Job ID: 810-126697-1

## 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)
810-126697-1	J18- Rehobeth ARV	97	114	88	87	90	87	86	81
810-126697-2	Y01-Yadkin Finished Water	95	113	87	87	91	88	87	84
810-126697-3	Y02- Yadkin Raw Water	96	130	89	86	90	87	87	83
LLCS 810-121500/2-A	Lab Control Sample	113	118	113	111	112	116	115	112
MBL 810-121500/1-A	Method Blank	96	97	94	94	97	98	97	92

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-126697-1	J18- Rehobeth ARV	77	84	95	94	98	96	106	96
810-126697-2	Y01-Yadkin Finished Water	83	85	92	93	92	94	105	93
810-126697-3	Y02- Yadkin Raw Water	81	85	91	96	109	96	108	96
LLCS 810-121500/2-A	Lab Control Sample	112	107	113	111	104	112	121	115
MBL 810-121500/1-A	Method Blank	92	90	99	96	90	103	107	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
- PFDoA = 13C2 PFDoA
- 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: 810-126697-1

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

**Lab Sample ID: MBL 810-121500/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 121570**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 121500**

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		11/06/24 09:18	11/07/24 01:49	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C5 PFPeA	97		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C5 PFHxA	94		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C4 PFHpA	94		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C8 PFOA	97		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C9 PFNA	98		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C6 PFDA	97		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C7 PFUnA	92		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C2 PFDoA	92		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C3 HFPO-DA	90		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C3 PFBS	99		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C8 PFOS	96		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C2-4:2-FTS	90		50 - 200	11/06/24 09:18	11/07/24 01:49	1

Eurofins Eaton Analytical South Bend

# QC Sample Results

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

Job ID: 810-126697-1

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

**Lab Sample ID: MBL 810-121500/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 121570**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 121500**

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	103		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C2-8:2-FTS	107		50 - 200	11/06/24 09:18	11/07/24 01:49	1
13C3 PFHxS	100		50 - 200	11/06/24 09:18	11/07/24 01:49	1

**Lab Sample ID: LLCS 810-121500/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 121570**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 121500**

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.54	J	ng/L		77	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.57	J	ng/L		78	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.43	J	ng/L		71	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.53	J	ng/L		76	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.59	J	ng/L		79	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.38	J	ng/L		69	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.52	J	ng/L		76	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.58	J	ng/L		79	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.64	J	ng/L		82	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.32	J	ng/L		74	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.28	J	ng/L		68	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.27	J	ng/L		70	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.42	J	ng/L		74	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.50	J	ng/L		81	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.78	1.45	J	ng/L		81	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.60	J	ng/L		85	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.47	J	ng/L		77	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.48	J	ng/L		77	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.43	J	ng/L		71	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.49	J	ng/L		79	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.28	J	ng/L		68	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.46	J	ng/L		77	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.51	J	ng/L		75	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.60	J	ng/L		80	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.47	J	ng/L		73	50 - 150

# QC Sample Results

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

Job ID: 810-126697-1

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

<i>Isotope Dilution</i>	<i>LLCS LLCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C4 PFBA	113		50 - 200
13C5 PFPeA	118		50 - 200
13C5 PFHxA	113		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	112		50 - 200
13C9 PFNA	116		50 - 200
13C6 PFDA	115		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	112		50 - 200
13C3 HFPO-DA	107		50 - 200
13C3 PFBS	113		50 - 200
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	104		50 - 200
13C2-6:2-FTS	112		50 - 200
13C2-8:2-FTS	121		50 - 200
13C3 PFHxS	115		50 - 200

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# QC Association Summary

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

Job ID: 810-126697-1

## LCMS

### Prep Batch: 121500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-126697-1	J18- Rehobeth ARV	Total/NA	Drinking Water	533	
810-126697-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	
810-126697-3	Y02- Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-121500/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-121500/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

### Analysis Batch: 121570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-126697-1	J18- Rehobeth ARV	Total/NA	Drinking Water	533	121500
810-126697-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	121500
810-126697-3	Y02- Yadkin Raw Water	Total/NA	Drinking Water	533	121500
MBL 810-121500/1-A	Method Blank	Total/NA	Drinking Water	533	121500
LLCS 810-121500/2-A	Lab Control Sample	Total/NA	Drinking Water	533	121500

# Lab Chronicle

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

Job ID: 810-126697-1

## Client Sample ID: J18- Rehobeth ARV

Lab Sample ID: 810-126697-1

Date Collected: 11/04/24 11:50

Matrix: Drinking Water

Date Received: 11/05/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			121500	MM	EA SB	11/06/24 09:18
Total/NA	Analysis	533		1	121570	PP	EA SB	11/07/24 05:51

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-126697-2

Date Collected: 11/04/24 14:04

Matrix: Drinking Water

Date Received: 11/05/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			121500	MM	EA SB	11/06/24 09:18
Total/NA	Analysis	533		1	121570	PP	EA SB	11/07/24 06:04

## Client Sample ID: Y02- Yadkin Raw Water

Lab Sample ID: 810-126697-3

Date Collected: 11/04/24 14:06

Matrix: Drinking Water

Date Received: 11/05/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			121500	MM	EA SB	11/06/24 09:18
Total/NA	Analysis	533		1	121570	PP	EA SB	11/07/24 06:17

**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: 810-126697-1

## 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: 810-126697-1

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: 810-126697-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-126697-1	J18- Rehobeth ARV	Drinking Water	11/04/24 11:50	11/05/24 09:30
810-126697-2	Y01-Yadkin Finished Water	Drinking Water	11/04/24 14:04	11/05/24 09:30
810-126697-3	Y02- Yadkin Raw Water	Drinking Water	11/04/24 14:06	11/05/24 09:30

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110 S Hill Street  
 South Bend, IN 46617  
 Phone: 574-233-4777 Fax: 574-2

### Chain of Custody Record



Environment Testing



#### Client Information

Client Contact: Justin Huntley  
 Company: Union County Water

Sampler: Jordan Helms  
 Phone: 080-269-7728  
 PWSID: 810-126697 COC

Lab PM: Mathieis, Joe  
 E-Mail: Joe.Mathieis@et.eurofins.com

Carrier Tracking No(s):  
 State of Origin:

COC No.: 810-34249-6174-1  
 Page: Page 1 of 1  
 Job #:

Address: 500 N Main St  
 City: Monroe  
 State, Zip: NC, 28112  
 Phone: 704-289-3307(Tel)  
 Email: Justin.Huntley@UnionCountyNC.gov

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

Project Name: PFAS - 533  
 Site: SSO#:

Project #: 81004979  
 SSO#:

Field Filtered Sample (Yes or No)  
 Perform MS/MS (Yes or No)  
 533 - (MOD) Local Method

Other:

Preservation Codes:  
 1 - NH4 Acetate

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Onsite, BR=Tissue, A=Air)	Preservation Code
518-Rembeth ARV	11/4/24	11:50A	G	Drinking Water	
Y01-Yadkin Finished Water	11/4/24	2:04P	G	Drinking Water	
Y02-Yadkin Raw Water	11/4/24	2:06P	G	Drinking Water	

Total Number of containers	Special Instructions/Note:

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  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:

Date:

Time:

Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Jordan Helms	11/4/24	Company	Shane	11-5-24	0930
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact:	Custody Seal No.:
<input type="checkbox"/> Yes <input type="checkbox"/> No	

Initial Temp: 30°C  
 Corrected Temp: 30°C  
 IR Gun # 59  
 Initial Temp: 30°C  
 Corrected Temp: 30°C  
 IR Gun # 59

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



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## Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-126697-1

**Login Number: 126697**

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

**List Number: 1**

**Creator: Moore, Gary**

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	