

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/11/2025 6:43:06 PM

JOB DESCRIPTION

PFAS - 533

JOB NUMBER

810-162856-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
9/11/2025 6:43:06 PM

Authorized for release by
Joe Mattheis, Project Manager I
Joe.Mattheis@et.eurofinsus.com
(574)233-4777



Table of Contents

| | |
|------------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Detection Summary | 6 |
| Client Sample Results | 7 |
| Isotope Dilution Summary | 11 |
| QC Sample Results | 12 |
| QC Association Summary | 16 |
| Lab Chronicle | 17 |
| Certification Summary | 18 |
| Method Summary | 19 |
| Sample Summary | 20 |
| Chain of Custody | 21 |
| Receipt Checklists | 23 |

Definitions/Glossary

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

Job ID: 810-162856-1

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: 810-162856-1

Job ID: 810-162856-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-162856-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/5/2025 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 1.2°C.

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18 Rehobeth ARV (810-162856-1), Y01 Yadkin Finished Water (810-162856-2), Y02 Yadkin Raw Water (810-162856-3) and (810-162856-B-1 MS)

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: 810-162856-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-162856-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Perfluorobutanoic acid (PFBA) | 3.5 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluoropentanoic acid (PFPeA) | 6.9 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorohexanoic acid (PFHxA) | 6.0 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluoroheptanoic acid (PFHpA) | 2.1 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | 4.1 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorobutanesulfonic acid (PFBS) | 2.2 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 3.3 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-162856-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Perfluorobutanoic acid (PFBA) | 2.6 | | 2.0 | | ng/L | 1 | | 533 | Total/NA |
| Perfluoropentanoic acid (PFPeA) | 3.0 | | 2.0 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorohexanoic acid (PFHxA) | 2.5 | | 2.0 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | 2.2 | | 2.0 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.4 | | 2.0 | | ng/L | 1 | | 533 | Total/NA |

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-162856-3

| 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) | 2.8 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorohexanoic acid (PFHxA) | 2.7 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | 2.9 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorobutanesulfonic acid (PFBS) | 1.9 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 5.1 | | 1.9 | | ng/L | 1 | | 533 | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-162856-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-162856-1

Date Collected: 09/04/25 10:04

Matrix: Drinking Water

Date Received: 09/05/25 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) | 3.5 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoropentanoic acid (PFPeA) | 6.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorohexanoic acid (PFHxA) | 6.0 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoroheptanoic acid (PFHpA) | 2.1 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorooctanoic acid (PFOA) | 4.1 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorononanoic acid (PFNA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorodecanoic acid (PFDA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorododecanoic acid (PFDoA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | 2.2 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 3.3 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoro(4-methoxybutanoic acid) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| Perfluoro-3,6-dioxaheptanoic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:48 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA | 102 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C5 PFPeA | 107 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C5 PFHxA | 97 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C4 PFHpA | 96 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C8 PFOA | 96 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C9 PFNA | 91 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C6 PFDA | 84 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C7 PFUnA | 83 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C2 PFDoA | 88 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C3 HFPO-DA | 95 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C3 PFBS | 109 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C8 PFOS | 101 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C2-4:2-FTS | 112 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-162856-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-162856-1

Date Collected: 09/04/25 10:04

Matrix: Drinking Water

Date Received: 09/05/25 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 | 135 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C2-8:2-FTS | 104 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |
| 13C3 PFHxS | 101 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:48 | 1 |

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-162856-2

Date Collected: 09/04/25 11:13

Matrix: Drinking Water

Date Received: 09/05/25 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) | 2.6 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoropentanoic acid (PFPeA) | 3.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorohexanoic acid (PFHxA) | 2.5 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorooctanoic acid (PFOA) | 2.2 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 2.4 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoro(4-methoxybutanoic acid) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Perfluoro-3,6-dioxaheptanoic acid | <2.0 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C4 PFBA | 102 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C5 PFPeA | 107 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C5 PFHxA | 97 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C4 PFHpA | 96 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C8 PFOA | 95 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:05 | 1 |

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-162856-1

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-162856-2

Date Collected: 09/04/25 11:13

Matrix: Drinking Water

Date Received: 09/05/25 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 | 92 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C6 PFDA | 86 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C7 PFUnA | 84 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C2 PFDoA | 89 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C3 HFPO-DA | 94 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C3 PFBS | 104 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C8 PFOS | 99 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C2-4:2-FTS | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C2-6:2-FTS | 113 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C2-8:2-FTS | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |
| 13C3 PFHxS | 102 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 16:05 | 1 |

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-162856-3

Date Collected: 09/04/25 11:15

Matrix: Drinking Water

Date Received: 09/05/25 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) | 2.6 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoropentanoic acid (PFPeA) | 2.8 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorohexanoic acid (PFHxA) | 2.7 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorooctanoic acid (PFOA) | 2.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorononanoic acid (PFNA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorodecanoic acid (PFDA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorododecanoic acid (PFDoA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | 1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 5.1 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoro(4-methoxybutanoic acid) | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-162856-1

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-162856-3

Date Collected: 09/04/25 11:15

Matrix: Drinking Water

Date Received: 09/05/25 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 | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Perfluoro-3,6-dioxaheptanoic acid | <1.9 | | 1.9 | | ng/L | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C4 PFBA | 99 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C5 PFPeA | 103 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C5 PFHxA | 95 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C4 PFHpA | 93 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C8 PFOA | 94 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C9 PFNA | 94 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C6 PFDA | 92 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C7 PFUnA | 91 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C2 PFDoA | 90 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C3 HFPO-DA | 91 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C3 PFBS | 107 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C8 PFOS | 99 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C2-4:2-FTS | 114 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C2-6:2-FTS | 118 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C2-8:2-FTS | 107 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |
| 13C3 PFHxS | 98 | | 50 - 200 | | | | 09/08/25 10:46 | 09/10/25 16:20 | 1 |

Isotope Dilution Summary

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

Job ID: 810-162856-1

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) |
|---------------------|---------------------------|------------------|-------------------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| 810-162856-1 | J18 Rehobeth ARV | 102 | 107 | 97 | 96 | 96 | 91 | 84 | 83 |
| 810-162856-1 MS | J18 Rehobeth ARV | 98 | 104 | 97 | 95 | 94 | 80 | 74 | 73 |
| 810-162856-2 | Y01 Yadkin Finished Water | 102 | 107 | 97 | 96 | 95 | 92 | 86 | 84 |
| 810-162856-3 | Y02 Yadkin Raw Water | 99 | 103 | 95 | 93 | 94 | 94 | 92 | 91 |
| LLCS 810-159197/2-A | Lab Control Sample | 95 | 99 | 92 | 95 | 96 | 98 | 98 | 99 |
| MBL 810-159197/1-A | Method Blank | 98 | 99 | 97 | 99 | 97 | 103 | 100 | 101 |

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) |
|---------------------|---------------------------|--------------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|
| 810-162856-1 | J18 Rehobeth ARV | 88 | 95 | 109 | 101 | 112 | 135 | 104 | 101 |
| 810-162856-1 MS | J18 Rehobeth ARV | 79 | 96 | 108 | 102 | 124 | 134 | 107 | 103 |
| 810-162856-2 | Y01 Yadkin Finished Water | 89 | 94 | 104 | 99 | 103 | 113 | 103 | 102 |
| 810-162856-3 | Y02 Yadkin Raw Water | 90 | 91 | 107 | 99 | 114 | 118 | 107 | 98 |
| LLCS 810-159197/2-A | Lab Control Sample | 98 | 91 | 100 | 103 | 89 | 112 | 97 | 101 |
| MBL 810-159197/1-A | Method Blank | 103 | 94 | 103 | 103 | 89 | 99 | 101 | 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_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: 810-162856-1

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

Lab Sample ID: MBL 810-159197/1-A
Matrix: Drinking Water
Analysis Batch: 159490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159197

| Analyte | MBL Result | MBL Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|---------------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA) | <0.52 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoropentanoic acid (PFPeA) | <0.77 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.73 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.72 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.74 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorononanoic acid (PFNA) | <0.73 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.66 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.70 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.70 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.66 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <0.69 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.66 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.60 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.69 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <0.66 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <0.67 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <0.68 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <0.57 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <0.71 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.60 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid | <0.97 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid | <0.82 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoro(4-methoxybutanoic acid) | <0.65 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <0.81 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| Perfluoro-3,6-dioxaheptanoic acid | <0.93 | | 2.0 | | ng/L | | 09/08/25 10:46 | 09/10/25 14:17 | 1 |

| Isotope Dilution | MBL %Recovery | MBL Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|---------------|---------------|----------|----------------|----------------|---------|
| 13C4 PFBA | 98 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C5 PFPeA | 99 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C5 PFHxA | 97 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C4 PFHpA | 99 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C8 PFOA | 97 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C9 PFNA | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C6 PFDA | 100 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C7 PFUnA | 101 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C2 PFDoA | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C3 HFPO-DA | 94 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C3 PFBS | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C8 PFOS | 103 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C2-4:2-FTS | 89 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-162856-1

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

Lab Sample ID: MBL 810-159197/1-A
Matrix: Drinking Water
Analysis Batch: 159490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159197

| Isotope Dilution | MBL MBL | | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C2-6:2-FTS | 99 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C2-8:2-FTS | 101 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |
| 13C3 PFHxS | 100 | | 50 - 200 | 09/08/25 10:46 | 09/10/25 14:17 | 1 |

Lab Sample ID: LLCS 810-159197/2-A
Matrix: Drinking Water
Analysis Batch: 159490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159197

| Analyte | Spike Added | LLCS LLCS | | Unit | D | %Rec | %Rec Limits |
|---|-------------|-----------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Perfluorobutanoic acid (PFBA) | 2.00 | 1.87 | J | ng/L | | 94 | 50 - 150 |
| Perfluoropentanoic acid (PFPeA) | 2.00 | 1.91 | J | ng/L | | 96 | 50 - 150 |
| Perfluorohexanoic acid (PFHxA) | 2.00 | 1.87 | J | ng/L | | 94 | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA) | 2.00 | 1.94 | J | ng/L | | 97 | 50 - 150 |
| Perfluorooctanoic acid (PFOA) | 2.00 | 2.01 | | ng/L | | 101 | 50 - 150 |
| Perfluorononanoic acid (PFNA) | 2.00 | 1.93 | J | ng/L | | 96 | 50 - 150 |
| Perfluorodecanoic acid (PFDA) | 2.00 | 2.01 | | ng/L | | 100 | 50 - 150 |
| Perfluoroundecanoic acid (PFUnA) | 2.00 | 2.00 | | ng/L | | 100 | 50 - 150 |
| Perfluorododecanoic acid (PFDoA) | 2.00 | 2.00 | | ng/L | | 100 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 1.78 | 1.66 | J | ng/L | | 93 | 50 - 150 |
| Perfluoropentanesulfonic acid (PFPeS) | 1.88 | 1.72 | J | ng/L | | 91 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 1.83 | 1.73 | J | ng/L | | 95 | 50 - 150 |
| Perfluoroheptanesulfonic acid (PFHpS) | 1.91 | 1.78 | J | ng/L | | 93 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 1.86 | 1.83 | J | ng/L | | 99 | 50 - 150 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | 1.78 | 1.73 | J | ng/L | | 97 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 1.88 | 1.95 | J | ng/L | | 104 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 1.90 | 2.12 | | ng/L | | 112 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 1.92 | 2.06 | | ng/L | | 107 | 50 - 150 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | 2.00 | 1.88 | J | ng/L | | 94 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 1.89 | 1.85 | J | ng/L | | 98 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 1.87 | 1.75 | J | ng/L | | 94 | 50 - 150 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 1.89 | 1.70 | J | ng/L | | 90 | 50 - 150 |
| Perfluoro(4-methoxybutanoic acid) | 2.00 | 1.91 | J | ng/L | | 95 | 50 - 150 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 2.00 | 1.80 | J | ng/L | | 90 | 50 - 150 |
| Perfluoro-3,6-dioxaheptanoic acid | 2.00 | 1.94 | J | ng/L | | 97 | 50 - 150 |

QC Sample Results

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

Job ID: 810-162856-1

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

| Isotope Dilution | LLCS | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C4 PFBA | 95 | | 50 - 200 |
| 13C5 PFPeA | 99 | | 50 - 200 |
| 13C5 PFHxA | 92 | | 50 - 200 |
| 13C4 PFHpA | 95 | | 50 - 200 |
| 13C8 PFOA | 96 | | 50 - 200 |
| 13C9 PFNA | 98 | | 50 - 200 |
| 13C6 PFDA | 98 | | 50 - 200 |
| 13C7 PFUnA | 99 | | 50 - 200 |
| 13C2 PFDoA | 98 | | 50 - 200 |
| 13C3 HFPO-DA | 91 | | 50 - 200 |
| 13C3 PFBS | 100 | | 50 - 200 |
| 13C8 PFOS | 103 | | 50 - 200 |
| 13C2-4:2-FTS | 89 | | 50 - 200 |
| 13C2-6:2-FTS | 112 | | 50 - 200 |
| 13C2-8:2-FTS | 97 | | 50 - 200 |
| 13C3 PFHxS | 101 | | 50 - 200 |

Lab Sample ID: 810-162856-1 MS

Matrix: Drinking Water

Analysis Batch: 159490

Client Sample ID: J18 Rehobeth ARV

Prep Type: Total/NA

Prep Batch: 159197

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec Limits |
|---|--------|-----------|-------|--------|-----------|------|---|------|----------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Perfluorobutanoic acid (PFBA) | 3.5 | | 198 | 197 | | ng/L | | 98 | 70 - 130 |
| Perfluoropentanoic acid (PFPeA) | 6.9 | | 198 | 201 | | ng/L | | 98 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | 6.0 | | 198 | 201 | | ng/L | | 98 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 2.1 | | 198 | 195 | | ng/L | | 97 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 4.1 | | 198 | 197 | | ng/L | | 97 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | <1.9 | | 198 | 200 | | ng/L | | 100 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | <1.9 | | 198 | 200 | | ng/L | | 101 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | <1.9 | | 198 | 203 | | ng/L | | 102 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | <1.9 | | 198 | 203 | | ng/L | | 102 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 2.2 | | 176 | 176 | | ng/L | | 99 | 70 - 130 |
| Perfluoropentanesulfonic acid (PFPeS) | <1.9 | | 186 | 196 | | ng/L | | 105 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | <1.9 | | 181 | 179 | | ng/L | | 98 | 70 - 130 |
| Perfluoroheptanesulfonic acid (PFHpS) | <1.9 | | 189 | 192 | | ng/L | | 101 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 3.3 | | 184 | 184 | | ng/L | | 98 | 70 - 130 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <1.9 | | 177 | 142 | | ng/L | | 81 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <1.9 | | 186 | 188 | | ng/L | | 101 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <1.9 | | 189 | 198 | | ng/L | | 105 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <1.9 | | 190 | 195 | | ng/L | | 103 | 70 - 130 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <1.9 | | 198 | 196 | | ng/L | | 99 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <1.9 | | 187 | 181 | | ng/L | | 96 | 70 - 130 |

Eurofins Eaton Analytical South Bend

QC Sample Results

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

Job ID: 810-162856-1

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

Lab Sample ID: 810-162856-1 MS

Matrix: Drinking Water

Analysis Batch: 159490

Client Sample ID: J18 Rehobeth ARV

Prep Type: Total/NA

Prep Batch: 159197

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec Limits |
|--|--------|-----------|-------|--------|-----------|------|---|------|----------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | <1.9 | | 185 | 183 | | ng/L | | 99 | 70 - 130 |
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid | <1.9 | | 187 | 179 | | ng/L | | 96 | 70 - 130 |
| Perfluoro(4-methoxybutanoic acid) | <1.9 | | 198 | 191 | | ng/L | | 96 | 70 - 130 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <1.9 | | 198 | 195 | | ng/L | | 98 | 70 - 130 |
| Perfluoro-3,6-dioxaheptanoic acid | <1.9 | | 198 | 198 | | ng/L | | 100 | 70 - 130 |

| Isotope Dilution | MS | MS | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C4 PFBA | 98 | | 50 - 200 |
| 13C5 PFPeA | 104 | | 50 - 200 |
| 13C5 PFHxA | 97 | | 50 - 200 |
| 13C4 PFHpA | 95 | | 50 - 200 |
| 13C8 PFOA | 94 | | 50 - 200 |
| 13C9 PFNA | 80 | | 50 - 200 |
| 13C6 PFDA | 74 | | 50 - 200 |
| 13C7 PFUnA | 73 | | 50 - 200 |
| 13C2 PFDoA | 79 | | 50 - 200 |
| 13C3 HFPO-DA | 96 | | 50 - 200 |
| 13C3 PFBS | 108 | | 50 - 200 |
| 13C8 PFOS | 102 | | 50 - 200 |
| 13C2-4:2-FTS | 124 | | 50 - 200 |
| 13C2-6:2-FTS | 134 | | 50 - 200 |
| 13C2-8:2-FTS | 107 | | 50 - 200 |
| 13C3 PFHxS | 103 | | 50 - 200 |

QC Association Summary

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

Job ID: 810-162856-1

LCMS

Prep Batch: 159197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|----------------|--------|------------|
| 810-162856-1 | J18 Rehobeth ARV | Total/NA | Drinking Water | 533 | |
| 810-162856-2 | Y01 Yadkin Finished Water | Total/NA | Drinking Water | 533 | |
| 810-162856-3 | Y02 Yadkin Raw Water | Total/NA | Drinking Water | 533 | |
| MBL 810-159197/1-A | Method Blank | Total/NA | Drinking Water | 533 | |
| LLCS 810-159197/2-A | Lab Control Sample | Total/NA | Drinking Water | 533 | |
| 810-162856-1 MS | J18 Rehobeth ARV | Total/NA | Drinking Water | 533 | |

Analysis Batch: 159490

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|----------------|--------|------------|
| 810-162856-1 | J18 Rehobeth ARV | Total/NA | Drinking Water | 533 | 159197 |
| 810-162856-2 | Y01 Yadkin Finished Water | Total/NA | Drinking Water | 533 | 159197 |
| 810-162856-3 | Y02 Yadkin Raw Water | Total/NA | Drinking Water | 533 | 159197 |
| MBL 810-159197/1-A | Method Blank | Total/NA | Drinking Water | 533 | 159197 |
| LLCS 810-159197/2-A | Lab Control Sample | Total/NA | Drinking Water | 533 | 159197 |
| 810-162856-1 MS | J18 Rehobeth ARV | Total/NA | Drinking Water | 533 | 159197 |

Lab Chronicle

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

Job ID: 810-162856-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-162856-1

Date Collected: 09/04/25 10:04

Matrix: Drinking Water

Date Received: 09/05/25 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-------|----------------------|
| Total/NA | Prep | 533 | | | 159197 | MP | EA SB | 09/08/25 10:46 |
| Total/NA | Analysis | 533 | | 1 | 159490 | MH | EA SB | 09/10/25 14:48 |

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-162856-2

Date Collected: 09/04/25 11:13

Matrix: Drinking Water

Date Received: 09/05/25 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-------|----------------------|
| Total/NA | Prep | 533 | | | 159197 | MP | EA SB | 09/08/25 10:46 |
| Total/NA | Analysis | 533 | | 1 | 159490 | MH | EA SB | 09/10/25 16:05 |

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-162856-3

Date Collected: 09/04/25 11:15

Matrix: Drinking Water

Date Received: 09/05/25 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-------|----------------------|
| Total/NA | Prep | 533 | | | 159197 | MP | EA SB | 09/08/25 10:46 |
| Total/NA | Analysis | 533 | | 1 | 159490 | MH | EA SB | 09/10/25 16:20 |

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: 810-162856-1

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 | 07-31-26 |

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 | 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 | 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 | Perfluorohexanoic acid (PFHxA) |
| 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: 810-162856-1

| 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: 810-162856-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---------------|---------------------------|----------------|----------------|----------------|----------------|
| 810-162856-1 | J18 Rehobeth ARV | Drinking Water | 09/04/25 10:04 | 09/05/25 09:00 | North Carolina |
| 810-162856-2 | Y01 Yadkin Finished Water | Drinking Water | 09/04/25 11:13 | 09/05/25 09:00 | North Carolina |
| 810-162856-3 | Y02 Yadkin Raw Water | Drinking Water | 09/04/25 11:15 | 09/05/25 09:00 | North Carolina |

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



Chain of Custody Record



810-162856 Chain of Custody

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

Sampler: Deryl Ennis
 Lab P#: Mathews, Joe
 E-Mail: Joe.Mathews@et.eurofins.com
 Carrier Tracking No(s):
 State of Origin:
 Job #:

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

Analysis Requested:
 Preservation Codes:
 #1 - NH4 Acetate

COC No: 810-52869-6174.1
 Page: Page 1 of 1

Received Temp: 16
 Corrected Temp: 26
 IR Gun # 26
 Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (G=Comp, G=grab) | Matrix (Member, Sealed, 810-Tissue, AA/4, DM-Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 533 - (MOD) Local Method | Total Number of containers | Special Instructions/Note: |
|-----------------------------|-------------|-------------|------------------------------|--|-----------------------------------|----------------------------|--------------------------|----------------------------|----------------------------|
| D18 - Rebobeth RRV | 9-4-25 | 1604 | G | Drinking Water | | | | | |
| Y01 - Yackin Finished Water | 9-4-25 | 1113 | G | Drinking Water | | | | | |
| Y02 - Yackin Raw Water | 9-4-25 | 1115 | G | Drinking Water | | | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/OC Requirements:

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: Deryl Ennis Date/Time: 9-4-25 1307 Company: UCCW

Relinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

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

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

Handwritten notes on the left margin, possibly including a date or page reference.

Handwritten notes in the center of the page, possibly a list or a set of instructions.

Handwritten notes on the right margin, possibly including a date or page reference.

Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-162856-1

Login Number: 162856

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moffitt, Heather

| 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 | |

