

How to read a water report

Introduction to Reading a Water Test using EPA 533 Testing Guidelines




U = Undetectable

A rating of 1.7 U on the EPA 533 test indicates that the concentration of non-condensable gas liquids (NGLs) in the sample was below the detection limit of the test.

In other words, the rating of 1.7U means that the level of NGLs in the sample was simply undetectable, and this is the lowest rating possible on the EPA 533 test.

Workorder: PFAS (T2221830)

November 08, 2022



Advanced Environmental Laboratories, Inc.
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P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813) 630-9616 Fax: (813) 630-4327

Workorder: PFAS (T2221830)

November 08, 2022

RE: Workorder: T2221830-PFAS

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday October 27, 2022. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise indicated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as ordered by the Client of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact us.

Client:

████████████████████
████████████████████

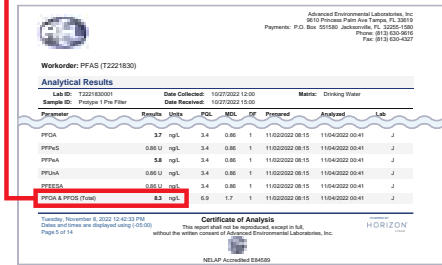
Tuesday, November 8, 2022 12:42:33 PM
Data and times are displayed using UTC-05:00
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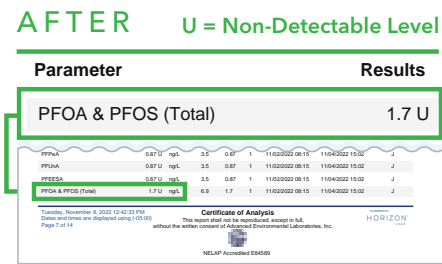
BEFORE Dangerous Level ←

| Parameter | Results |
|---------------------|------------|
| PFOA & PFOS (Total) | 8.3 |



AFTER U = Non-Detectable Level ←

| Parameter | Results |
|---------------------|--------------|
| PFOA & PFOS (Total) | 1.7 U |



Water testing is an essential tool for ensuring that drinking water is safe and free from harmful contaminants. The EPA 533 test is a widely used testing methodology that is designed to detect non-condensable gas liquids (NGLs) in water samples. This test follows the guidelines set forth by the U.S. Environmental Protection Agency (EPA) and is used by many regulatory agencies to ensure compliance with safe drinking water standards.

The EPA 533 test specifically targets a group of organic compounds known as non-condensable gas liquids, which include hydrocarbons, volatile organic compounds (VOCs), and other organic contaminants. These compounds can be found in a variety of sources, including industrial and agricultural activities, landfills, and leaking underground storage tanks.

The test measures the concentration of NGLs in a water sample, with a detection limit of 17 micrograms per liter of

water. Meaning, a rating of 1.7U on the EPA 533 test indicates that the concentration of non-condensable gas liquids (NGLs) in the sample was below the detection limit of the test.

Interpreting the results of a water test is crucial for determining whether the water is safe to drink. In the case of this recent test using the Melissani M1 machine, the results indicate that the water passed all tests and removed 99.9% of all contaminants from the water sample.



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Workorder: PFAS (T2221830)

November 08, 2022

RE: Workorder: T2221830 PFAS

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday October 27, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

[Redacted signature block]

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Workorder: PFAS (T2221830)

Sample Summary

| Lab ID | Sample ID | Matrix | Method | Date Collected | Date Received | Analytes Reported | Basis |
|-------------|-------------------------|--------|---------|------------------|------------------|-------------------|-------|
| T2221830001 | Prototype 1 Pre Filter | DW | EPA 533 | 10/27/2022 12:00 | 10/27/2022 15:00 | 26 | NA |
| T2221830002 | Prototype 1 Post Filter | DW | EPA 533 | 10/27/2022 12:00 | 10/27/2022 15:00 | 26 | NA |
| T2221830003 | Field Blank | DW | EPA 533 | 10/27/2022 12:00 | 10/27/2022 15:00 | 26 | NA |

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Workorder: PFAS (T2221830)

Workorder Summary

Batch Comments

HPLj/1666 - E533 Analysis,Water

The relative percent difference (RPD) for PFHxA between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 4529661LCSD in comparison with 4529660LCS. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

Task Comments

T2221830001 (Prototype 1 Pre Filter) - HPLj/1666 - E533 Analysis,Water

The lower control criterion was exceeded for the following surrogate/EIS in T2221830001 due to matrix interference: 13C2-4:2FTS. A low bias surrogate/EIS equates to a high bias target analyte concentration, however no associated target analyte was detected in the sample. The quality of the sample data is not significantly affected as internal standard area counts met criteria. No further corrective action is required.

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Workorder: PFAS (T2221830)

Analytical Results Qualifiers

Parameter Qualifiers

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Lab Qualifiers

- J DOH Certification #E82574 (FL NELAC) AEL-Jacksonville

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Workorder: PFAS (T2221830)

Analytical Results

Lab ID: T2221830001 Date Collected: 10/27/2022 12:00 Matrix: Drinking Water
 Sample ID: Prototype 1 Pre Filter Date Received: 10/27/2022 15:00

| Parameter | Results | Units | PQL | MDL | DF | Prepared | Analyzed | Lab |
|---------------------|--------------|-------|-----|------|----|------------------|------------------|-----|
| (EPA 533) | | | | | | | | |
| 11CI-PF3OUdS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| 9CI-PF3ONS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| ADONA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| 4:2 FTS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| 6:2 FTS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| 8:2 FTS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| HFPO-DA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| NFDHA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFBS | 4.1 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFBA | 8.5 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFDA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFDoA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFHpS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFHpA | 2.1 I | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFHxS | 2.6 I | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFHxA | 3.9 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFMBA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFMPA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFNA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFOS | 4.7 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFOA | 3.7 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFPeS | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFPeA | 5.8 | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFUnA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFEESA | 0.86 U | ng/L | 3.4 | 0.86 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |
| PFOA & PFOS (Total) | 8.3 | ng/L | 6.9 | 1.7 | 1 | 11/02/2022 08:15 | 11/04/2022 00:41 | J |

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Workorder: PFAS (T2221830)

Analytical Results

| Surrogates | | | | | | |
|------------------|-------|---------------|--------------|----------------|----------------|-----|
| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery | Control Limits | Lab |
| 13C2-4:2FTS (S) | ng/L | 8.60 | 4.20 | 49 | 50 - 150 | J |
| 13C2-6:2FTS (S) | ng/L | 8.60 | 5.20 | 60.40 | 50 - 150 | J |
| 13C2-8:2FTS (S) | ng/L | 8.60 | 7.30 | 85 | 50 - 150 | J |
| 13C2-PFDOA (S) | ng/L | 3.40 | 3.40 | 97.40 | 50 - 150 | J |
| 13C3-HFPO-DA (S) | ng/L | 3.40 | 3 | 88.20 | 50 - 150 | J |
| 13C3-PFBS (S) | ng/L | 3.40 | 3.20 | 93.70 | 50 - 150 | J |
| 13C3-PFHXS (S) | ng/L | 3.40 | 3.40 | 97.60 | 50 - 150 | J |
| 13C4-PFBA (S) | ng/L | 3.40 | 3.40 | 97.80 | 50 - 150 | J |
| 13C4-PFHXA (S) | ng/L | 3.40 | 3.70 | 106 | 50 - 150 | J |
| 13C5-PFHXA (S) | ng/L | 3.40 | 3.30 | 95 | 50 - 150 | J |
| 13C5-PFPEA (S) | ng/L | 3.40 | 4.40 | 128 | 50 - 150 | J |
| 13C6-PFDA (S) | ng/L | 3.40 | 3.20 | 94.30 | 50 - 150 | J |
| 13C7-PFUNA (S) | ng/L | 3.40 | 3.20 | 93.60 | 50 - 150 | J |
| 13C8-PFOA (S) | ng/L | 3.40 | 3.50 | 101 | 50 - 150 | J |
| 13C8-PFOS (S) | ng/L | 3.40 | 3.10 | 88.90 | 50 - 150 | J |
| 13C9-PFNA (S) | ng/L | 3.40 | 3.50 | 102 | 50 - 150 | J |

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Workorder: PFAS (T2221830)

Analytical Results

Lab ID: T2221830002 Date Collected: 10/27/2022 12:00 Matrix: Drinking Water
 Sample ID: Prototype 1 Post Filter Date Received: 10/27/2022 15:00

| Parameter | Results | Units | PQL | MDL | DF | Prepared | Analyzed | Lab |
|---------------------|---------|-------|-----|------|----|------------------|------------------|-----|
| (EPA 533) | | | | | | | | |
| 11CI-PF3OUdS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| 9CI-PF3ONS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| ADONA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| 4:2 FTS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| 6:2 FTS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| 8:2 FTS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| HFPO-DA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| NFDHA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFBS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFBA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFDA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFDoA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFHpS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFHpA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFHxS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFHxA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFMBA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFMPA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFNA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFOS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFOA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFPeS | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFPeA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFUnA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFEESA | 0.87 U | ng/L | 3.5 | 0.87 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |
| PFOA & PFOS (Total) | 1.7 U | ng/L | 6.9 | 1.7 | 1 | 11/02/2022 08:15 | 11/04/2022 15:02 | J |

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Workorder: PFAS (T2221830)

Analytical Results

| Surrogates | | | | | | |
|------------------|-------|---------------|--------------|----------------|----------------|-----|
| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery | Control Limits | Lab |
| 13C4-PFHPA (S) | ng/L | 3.50 | 3.60 | 104 | 50 - 150 | J |
| 13C5-PFHXA (S) | ng/L | 3.50 | 3.50 | 102 | 50 - 150 | J |
| 13C5-PFPEA (S) | ng/L | 3.50 | 3.10 | 88.50 | 50 - 150 | J |
| 13C6-PFDA (S) | ng/L | 3.50 | 3.50 | 102 | 50 - 150 | J |
| 13C7-PFUNA (S) | ng/L | 3.50 | 3.30 | 94.40 | 50 - 150 | J |
| 13C8-PFOA (S) | ng/L | 3.50 | 3.40 | 97.30 | 50 - 150 | J |
| 13C8-PFOS (S) | ng/L | 3.50 | 3.20 | 91.20 | 50 - 150 | J |
| 13C9-PFNA (S) | ng/L | 3.50 | 3.50 | 101 | 50 - 150 | J |
| 13C2-4:2FTS (S) | ng/L | 8.70 | 7.40 | 84.80 | 50 - 150 | J |
| 13C2-6:2FTS (S) | ng/L | 8.70 | 7.70 | 89.10 | 50 - 150 | J |
| 13C2-8:2FTS (S) | ng/L | 8.70 | 9 | 103 | 50 - 150 | J |
| 13C2-PFDOA (S) | ng/L | 3.50 | 3.50 | 102 | 50 - 150 | J |
| 13C3-HFPO-DA (S) | ng/L | 3.50 | 3.80 | 109 | 50 - 150 | J |
| 13C3-PFBS (S) | ng/L | 3.50 | 3.50 | 102 | 50 - 150 | J |
| 13C3-PFHXS (S) | ng/L | 3.50 | 3.70 | 107 | 50 - 150 | J |
| 13C4-PFBA (S) | ng/L | 3.50 | 3.20 | 93 | 50 - 150 | J |

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Workorder: PFAS (T2221830)

Analytical Results

Lab ID: T2221830003 Date Collected: 10/27/2022 12:00 Matrix: Drinking Water
 Sample ID: Field Blank Date Received: 10/27/2022 15:00

| Parameter | Results | Units | PQL | MDL | DF | Prepared | Analyzed | Lab |
|---------------------|---------|-------|-----|------|----|------------------|------------------|-----|
| (EPA 533) | | | | | | | | |
| 11CI-PF3OUdS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| 9CI-PF3ONS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| ADONA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| 4:2 FTS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| 6:2 FTS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| 8:2 FTS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| HFPO-DA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| NFDHA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFBS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFBA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFDA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFDoA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFHpS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFHpA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFHxS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFHxA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFMBA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFMPA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFNA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFOS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFOA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFPeS | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFPeA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFUnA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFEESA | 0.97 U | ng/L | 3.9 | 0.97 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |
| PFOA & PFOS (Total) | 1.9 U | ng/L | 7.8 | 1.9 | 1 | 11/02/2022 08:15 | 11/04/2022 01:41 | J |

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Workorder: PFAS (T2221830)

Analytical Results

| Surrogates | | | | | | |
|------------------|-------|---------------|--------------|----------------|----------------|-----|
| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery | Control Limits | Lab |
| 13C2-4:2FTS (S) | ng/L | 9.70 | 8.70 | 89.10 | 50 - 150 | J |
| 13C2-6:2FTS (S) | ng/L | 9.70 | 9.40 | 96.70 | 50 - 150 | J |
| 13C2-8:2FTS (S) | ng/L | 9.70 | 9.60 | 98.20 | 50 - 150 | J |
| 13C2-PFDOA (S) | ng/L | 3.90 | 4.10 | 106 | 50 - 150 | J |
| 13C3-HFPO-DA (S) | ng/L | 3.90 | 4.30 | 110 | 50 - 150 | J |
| 13C3-PFBS (S) | ng/L | 3.90 | 3.80 | 98.30 | 50 - 150 | J |
| 13C3-PFHXS (S) | ng/L | 3.90 | 4 | 101 | 50 - 150 | J |
| 13C4-PFBA (S) | ng/L | 3.90 | 4 | 104 | 50 - 150 | J |
| 13C4-PFHXA (S) | ng/L | 3.90 | 4 | 103 | 50 - 150 | J |
| 13C5-PFHXA (S) | ng/L | 3.90 | 4 | 102 | 50 - 150 | J |
| 13C5-PFPEA (S) | ng/L | 3.90 | 3.90 | 99.40 | 50 - 150 | J |
| 13C6-PFDA (S) | ng/L | 3.90 | 4.30 | 111 | 50 - 150 | J |
| 13C7-PFUNA (S) | ng/L | 3.90 | 4.10 | 106 | 50 - 150 | J |
| 13C8-PFOA (S) | ng/L | 3.90 | 4.10 | 106 | 50 - 150 | J |
| 13C8-PFOS (S) | ng/L | 3.90 | 3.90 | 100 | 50 - 150 | J |
| 13C9-PFNA (S) | ng/L | 3.90 | 4.40 | 113 | 50 - 150 | J |

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Workorder: PFAS (T2221830)

QC Results

QC Batch: HPLj/1666
 Preparation Method: EPA 533
 Associated Lab IDs: T2221830001, T2221830002, T2221830003

Analysis Method: EPA 533

Method Blank(4529659)

| Parameter | Results | Units | PQL | MDL | Lab |
|---------------------|---------|-------|-----|-----|-----|
| 11CI-PF3OUdS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| 9CI-PF3ONS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| ADONA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| 4:2 FTS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| 6:2 FTS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| 8:2 FTS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| HFPO-DA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| NFDHA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFBS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFBA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFDA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFDoA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFHpS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFHpA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFHxS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFHxA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFMBA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFMPA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFNA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFOS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFOA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFPeS | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFPeA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFUnA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFEESA | 1.0 U | ng/L | 4.0 | 1.0 | J |
| PFOA & PFOS (Total) | 2.0 U | ng/L | 8.0 | 2.0 | J |

Surrogates

| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery | Control Limits | Lab |
|-----------------|-------|---------------|--------------|----------------|----------------|-----|
| 13C2-4:2FTS (S) | ng/mL | 0.01 | 0.01 | 86.80 | 50 - 150 | |





Workorder: PFAS (T2221830)

QC Batch: HPLj/1666
Preparation Method: EPA 533
Associated Lab IDs: T2221830001, T2221830002, T2221830003

Analysis Method: EPA 533

| Surrogates | | | | | | |
|------------------|-------|---------------|--------------|----------------|----------------|-----|
| Parameter | Units | Spiked Amount | Spike Result | Spike Recovery | Control Limits | Lab |
| 13C2-6:2FTS (S) | ng/mL | 0.01 | 0.01 | 99.50 | 50 - 150 | |
| 13C2-8:2FTS (S) | ng/mL | 0.01 | 0.01 | 88.60 | 50 - 150 | |
| 13C2-PFDOA (S) | ng/mL | 0.0040 | 0 | 87.30 | 50 - 150 | |
| 13C3-HFPO-DA (S) | ng/mL | 0.0040 | 0 | 94.60 | 50 - 150 | |
| 13C3-PFBS (S) | ng/mL | 0.0040 | 0 | 93.80 | 50 - 150 | |
| 13C3-PFHXS (S) | ng/mL | 0.0040 | 0 | 96.50 | 50 - 150 | |
| 13C4-PFBA (S) | ng/mL | 0.0040 | 0 | 98.60 | 50 - 150 | |
| 13C4-PFHXA (S) | ng/mL | 0.0040 | 0 | 105 | 50 - 150 | |
| 13C5-PFHXA (S) | ng/mL | 0.0040 | 0 | 99 | 50 - 150 | |
| 13C5-PFPEA (S) | ng/mL | 0.0040 | 0 | 96.70 | 50 - 150 | |
| 13C6-PFDA (S) | ng/mL | 0.0040 | 0 | 93.70 | 50 - 150 | |
| 13C7-PFUNA (S) | ng/mL | 0.0040 | 0 | 90.20 | 50 - 150 | |
| 13C8-PFOA (S) | ng/mL | 0.0040 | 0 | 99.80 | 50 - 150 | |
| 13C8-PFOS (S) | ng/mL | 0.0040 | 0 | 93.60 | 50 - 150 | |
| 13C9-PFNA (S) | ng/mL | 0.0040 | 0 | 94.90 | 50 - 150 | |





Workorder: PFAS (T2221830)

QC Cross Reference

| Lab ID | Sample ID | Prep Batch | Prep Method |
|----------------------------|-------------------------|------------|-------------|
| HPLj/1666 - EPA 533 | | | |
| T2221830001 | Prototype 1 Pre Filter | EXTj/5063 | EPA 533 |
| T2221830002 | Prototype 1 Post Filter | EXTj/5063 | EPA 533 |
| T2221830003 | Field Blank | EXTj/5063 | EPA 533 |

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