

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Mike Lankford
Gadsden Water Works
515 Albert Rains Blvd
Gadsden, Alabama 35901

Generated 3/12/2025 7:52:06 AM

JOB DESCRIPTION

PFAS

JOB NUMBER

810-140246-1

Case Narrative

Client: Gadsden Water Works
Project: PFAS

Job ID: 810-140246-1

Job ID: 810-140246-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-140246-1

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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 3/5/2025 10:15 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 5.2°C.

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: RW-GADSDEN (810-140246-1) and FW-GADSDEN (810-140246-2)

Method 533: The pH of the following sample was adjusted to pH 7.5 in the laboratory: FB (810-140246-3)

Method 533: Isotope Dilution Analyte (IDA) recovery is below the method 533 recommended limit for the following sample: FB (810-140246-3). 13C6 PFDA (33%), 13C7 PFUnA (38%), and 13C9 PFNA (41%) recoveries failed low. Limits 50-200%. This sample was re-analyzed with similar results. There is no volume remaining for re-extraction.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-140246-1

Client Sample ID: RW-GADSDEN

Lab Sample ID: 810-140246-1

Date Collected: 03/03/25 20:12

Matrix: Drinking Water

Date Received: 03/05/25 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoropentanoic acid (PFPeA)	31		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorohexanoic acid (PFHxA)	20		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoroheptanoic acid (PFHpA)	7.1		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorooctanoic acid (PFOA)	18		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorononanoic acid (PFNA)	2.1		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorodecanoic acid (PFDA)	2.2		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorobutanesulfonic acid (PFBS)	79		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluorooctanesulfonic acid (PFOS)	21		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C5 PFPeA	107		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C5 PFHxA	98		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C4 PFHpA	96		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C8 PFOA	97		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C9 PFNA	95		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C6 PFDA	92		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C7 PFUnA	92		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C2 PFDoA	91		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C3 HFPO-DA	92		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C3 PFBS	106		50 - 200	03/06/25 10:42	03/07/25 03:16	1

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-140246-1

Client Sample ID: RW-GADSDEN

Lab Sample ID: 810-140246-1

Date Collected: 03/03/25 20:12

Matrix: Drinking Water

Date Received: 03/05/25 10:15

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	99		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C2-4:2-FTS	122		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C2-6:2-FTS	104		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C2-8:2-FTS	101		50 - 200	03/06/25 10:42	03/07/25 03:16	1
13C3 PFHxS	99		50 - 200	03/06/25 10:42	03/07/25 03:16	1

Client Sample ID: FW-GADSDEN

Lab Sample ID: 810-140246-2

Date Collected: 03/04/25 11:00

Matrix: Drinking Water

Date Received: 03/05/25 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoropentanoic acid (PFPeA)	31		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorohexanoic acid (PFHxA)	18		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoroheptanoic acid (PFHpA)	5.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorooctanoic acid (PFOA)	15		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorobutanesulfonic acid (PFBS)	75		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluorooctanesulfonic acid (PFOS)	15		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	ng/L		03/06/25 10:42	03/07/25 03:30	1

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-140246-1

Client Sample ID: FW-GADSDEN

Lab Sample ID: 810-140246-2

Date Collected: 03/04/25 11:00

Matrix: Drinking Water

Date Received: 03/05/25 10:15

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C5 PFPeA	109		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C5 PFHxA	93		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C4 PFHpA	97		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C8 PFOA	83		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C9 PFNA	68		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C6 PFDA	61		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C7 PFUnA	67		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C2 PFDoA	69		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C3 HFPO-DA	90		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C3 PFBS	102		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C8 PFOS	101		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C2-4:2-FTS	107		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C2-6:2-FTS	101		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C2-8:2-FTS	102		50 - 200	03/06/25 10:42	03/07/25 03:30	1
13C3 PFHxS	102		50 - 200	03/06/25 10:42	03/07/25 03:30	1

Client Sample ID: FB

Lab Sample ID: 810-140246-3

Date Collected: 03/03/25 00:00

Matrix: Drinking Water

Date Received: 03/05/25 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9	ng/L		03/10/25 08:42	03/11/25 13:43	1

Eurofins Eaton Analytical South Bend

Chain of Custody Record

810-140246 Chain of Custody



Client Contact: **Mike Lankford**
 Company: **Gadsden Water Works**
 Address: **515 Albert Rains Blvd**
 City: **Gadsden**
 State, Zip: **AL, 35901**
 Phone: _____
 Email: **mlankford@gadsdenwater.org**
 Project Name: **PFAS**
 Site: **GADSDEN**

Sampler: **NICHOLAS BROOKINS**
 Phone: **256-2543-2884**
 Lab P#: _____
 Trowbridge, Nathan
 E-Mail: **Nathan_Trowbridge@et.eurofins.com**
 Carrier Tracking No(s): _____
 State of Origin: _____
 Job #: _____
 COC No: **810-47232-571.1**
 Page: **Page 1 of 1**

Due Date Requested: _____
 TAT Requested (days): _____
 Compliance Project: Yes No
 PO #: _____
 Purchase Order not required
 WOC #: _____
 Project #: **81004291**
 SSONW#: _____

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, S=Grab)	Matrix (Water, Soil, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Perform MS/MSD (Yes or No)	533 - Local Method	Total Number of containers	Special Instructions/Note:
RW - GADSDEN	3/3/25	2012	G	drinking Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		2	Turbidity
FWD - GADSDEN	3/4/25	1100	G	drinking Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		2	
TRIP BLANK FB				drinking Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	

Initial Temp: _____
 Generated by: _____
 In QMS: _____

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **N. BROOKINS to COOLER** Date/Time: **3/4/2025 1100** Company: **BWSB**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and other Remarks: _____