

# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

PFAS

## JOB NUMBER

810-101653-1

# Case Narrative

Client: Gadsden Water Works  
Project: PFAS

Job ID: 810-101653-1

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**Eurofins Eaton Analytical South Bend**

**Job Narrative  
810-101653-1**

## REVISION

The report being provided is a revision of the original report sent on 4/30/2024. The report (revision 1) is being revised due to Sample labels switched upon receipt. Report revision is correcting this error.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

## **Receipt**

The samples were received on 4/4/2024 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 1.4°C.

## **Receipt Exceptions**

<COC has method 533. Client sent 537.1 bottles. Client was contacted and samples should be tested for 537.1. Please test out of hold.>

GADSDEN-FW (810-101653-1), GADSDEN-RW (810-101653-2) and TRIP BLANK (810-101653-3)

## **PFAS**

Method 537.1\_DW\_PREC: The following 537.1 sample was prepared outside of holding time: GADSDEN-RW (810-101653-2).

Method 537.1\_DW\_PREC: The following 537.1 sample was prepared outside of holding time: GADSDEN-FW (810-101653-1).

Method 537.1\_DW\_PREC: The following trip blank was prepared outside of holding time: TRIP BLANK (810-101653-3).

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: 810-101653-1

**Client Sample ID: GADSDEN-FW**

**Lab Sample ID: 810-101653-1**

Date Collected: 04/02/24 20:11

Matrix: Drinking Water

Date Received: 04/04/24 09:00

PWSID Number: AL0000577

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000022	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorohexanoic acid (PFHxA)	0.000028	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorododecanoic acid (PFDoA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorooctanoic acid (PFOA)	0.000024	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorodecanoic acid (PFDA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.0000028	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorobutanesulfonic acid (PFBS)	0.00010	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluoroheptanoic acid (PFHpA)	0.000010	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorononanoic acid (PFNA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 06:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	96		70 - 130			04/24/24 07:13	04/25/24 06:50	1
13C2 PFDA	98		70 - 130			04/24/24 07:13	04/25/24 06:50	1
13C3 HFPO-DA	95		70 - 130			04/24/24 07:13	04/25/24 06:50	1
d5-NEtFOSAA	98		70 - 130			04/24/24 07:13	04/25/24 06:50	1

**Client Sample ID: GADSDEN-RW**

**Lab Sample ID: 810-101653-2**

Date Collected: 04/03/24 11:00

Matrix: Drinking Water

Date Received: 04/04/24 09:00

PWSID Number: AL0000577

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000033	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorohexanoic acid (PFHxA)	0.000026	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorododecanoic acid (PFDoA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorooctanoic acid (PFOA)	0.000029	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorodecanoic acid (PFDA)	0.0000025	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorohexanesulfonic acid (PFHxS)	0.0000040	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorobutanesulfonic acid (PFBS)	0.000095	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluoroheptanoic acid (PFHpA)	0.000011	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorononanoic acid (PFNA)	0.0000025	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1

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# Client Sample Results

Client: Gadsden Water Works  
Project/Site: PFAS

Job ID: 810-101653-1

**Client Sample ID: GADSDEN-RW**

**Lab Sample ID: 810-101653-2**

Date Collected: 04/03/24 11:00

Matrix: Drinking Water

Date Received: 04/04/24 09:00

PWSID Number: AL0000577

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019	H	0.0000019	mg/L		04/24/24 07:13	04/25/24 07:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	90		70 - 130			04/24/24 07:13	04/25/24 07:01	1
13C2 PFDA	97		70 - 130			04/24/24 07:13	04/25/24 07:01	1
13C3 HFPO-DA	87		70 - 130			04/24/24 07:13	04/25/24 07:01	1
d5-NEtFOSAA	90		70 - 130			04/24/24 07:13	04/25/24 07:01	1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 810-101653-3**

Date Collected: 04/02/24 00:00

Matrix: Drinking Water

Date Received: 04/04/24 09:00

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorohexanoic acid (PFHxA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorododecanoic acid (PFDoA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorooctanoic acid (PFOA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorodecanoic acid (PFDA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorononanoic acid (PFNA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019	H	0.0000019	mg/L		04/26/24 10:30	04/27/24 18:24	1



Chain of Custody Record

<b>Client Inform:</b> Client Contact: Mike Lankford Phone: 810-101653 COC Company: Gadsden Water Works		<b>Sampler:</b> Name: NATHAN BROOKINS Phone: (256) 543-2884 PWSID:		<b>Lab PM:</b> Name: Nathan Email: Nathan.Trowbridge@ei.eurofins.com		<b>Carrier/Tracking No(s):</b> COC No: 810-23351-6571.1 Page: Page 1 of 1 Job #:	
Address: 515 Albert Rains Blvd City: Gadsden State: AL, Zip: 35901		Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: <input type="checkbox"/> Purchase Order not required W/O #:		State of Origin:		Analysis Requested:	
Email: mlankford@gadsdenwater.org Project Name: PFAS Site: GADSDEN		Project #: 81004291 SOW#:		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 533 - Local Method		Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hu-xane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Sample Identification: GADSDEN - RWJ GADSDEN - FWD TRIP BLANK		Sample Date: 4/2 4/3		Sample Time: 0911 1100		Sample Type (C=Comp, G=grab, B=Trace, A=Al): G G G	
Matrix (Weather, Environmental, Other): Drinking Water Drinking Water Drinking Water		Preservation Code: N N N		Total Number of containers: 1 2 1		Special Instructions/Note: Turbidity 537.1 Samples are 533 Samples were Received on 4/24/24 Initial Temp: 1.2 Confirmed Temp: 1.0 IR Gun # 24	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Empty Kit Relinquished by:	
Relinquished by: M. BROOKINS to COOLER Date/Time: 4/3/24 1330 Company: GADSDEN		Date: 4/3/24 Date/Time: 1330 Company: GADSDEN		Received by: [Signature] Date/Time: 4-4-24 09:00 Company:		Received by: [Signature] Date/Time: 4-4-24 09:00 Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks:		Method of Shipment:	