



ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/19/2024 8:15:20 AM

JOB DESCRIPTION

PFAS

JOB NUMBER

810-96362-1

Case Narrative

Client: Gadsden Water Works
Project: PFAS

Job ID: 810-96362-1

Job ID: 810-96362-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-96362-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers 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 3/7/2024 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 1.8°C.

PFAS

Method 537.1_DW_PREC: 537.1 Gadsden-FW (810-96362-3) LMS failed low at 24% (Limit 50-150%) for Perfluorobutanesulfonic acid (PFBS). Concentration of PFBS was very high in the parent sample Gadsden-FW (810-96362-3), hence the spike volume in LMS was insignificant. Hence, the result has been reported as it is for PFBS.

Method 537.1_DW_PREC: Perfluorooctanoic acid (PFOA) concentration in 537.1 FB Gadsden-FW FTB (810-96362-4) was higher than 1/3 MRL.

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: 810-96362-1

Client Sample ID: Gadsden-RW

Lab Sample ID: 810-96362-1

Date Collected: 03/05/24 20:40

Matrix: Drinking Water

Date Received: 03/07/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000030		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorohexanoic acid (PFHxA)	0.000023		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorooctanoic acid (PFOA)	0.000027		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorodecanoic acid (PFDA)	0.000022		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.000037		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorobutanesulfonic acid (PFBS)	0.000085		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluoroheptanoic acid (PFHpA)	0.0000093		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorononanoic acid (PFNA)	0.0000023		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	86		70 - 130			03/13/24 06:52	03/13/24 23:11	1
13C2 PFDA	93		70 - 130			03/13/24 06:52	03/13/24 23:11	1
13C3 HFPO-DA	85		70 - 130			03/13/24 06:52	03/13/24 23:11	1
d5-NEtFOSAA	92		70 - 130			03/13/24 06:52	03/13/24 23:11	1

Client Sample ID: Gadsden-RW FTB

Lab Sample ID: 810-96362-2

Date Collected: 03/05/24 20:40

Matrix: Drinking Water

Date Received: 03/07/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluoroundecanoic acid (PFUnA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorohexanoic acid (PFHxA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorododecanoic acid (PFDoA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorooctanoic acid (PFOA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorodecanoic acid (PFDA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluoroheptanoic acid (PFHpA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorononanoic acid (PFNA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-96362-1

Client Sample ID: Gadsden-RW FTB

Lab Sample ID: 810-96362-2

Date Collected: 03/05/24 20:40

Matrix: Drinking Water

Date Received: 03/07/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000020		0.0000020	mg/L		03/15/24 07:36	03/16/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130			03/15/24 07:36	03/16/24 13:33	1
13C2 PFDA	98		70 - 130			03/15/24 07:36	03/16/24 13:33	1
13C3 HFPO-DA	96		70 - 130			03/15/24 07:36	03/16/24 13:33	1
d5-NEtFOSAA	99		70 - 130			03/15/24 07:36	03/16/24 13:33	1

Client Sample ID: Gadsden-FW

Lab Sample ID: 810-96362-3

Date Collected: 03/06/24 11:00

Matrix: Drinking Water

Date Received: 03/07/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000016		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorohexanoic acid (PFHxA)	0.000027		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorooctanoic acid (PFOA)	0.000022		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorohexanesulfonic acid (PFHxS)	0.000022		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorobutanesulfonic acid (PFBS)	0.000098		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluoroheptanoic acid (PFHpA)	0.000090		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		03/13/24 06:52	03/13/24 20:01	1

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Chain of Custody Record



810-96362 Chain of Custody

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Sampler: **MICHAEL BROOKINS** Lab Pk: **Trowbridge, Nathan** Carrier Tracking No(s): **810-23348-6571 1**
 Project: **(256) 543-2884** E-Mail: **Nathan.Trowbridge@et.eurolfins.com** State of Origin: **NC**
 PWSID: **81004291**

Company: **Gadsden Water Works** Due Date Requested: _____
 Address: **515 Albert Rains Blvd** TAT Requested (days): _____
 City: **Gadsden** Compliance Project: Yes No
 State Zip: **AL, 35901** Purchase Order not required
 Phone: _____
 Email: **mankford@gadsdenwater.org** Project #: **81004291**
 Project Name: **PFA5** SSOV#: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Job #	COC No.	Page
GADSDEN - RW	3/5	2410	G	Drinking Water	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes				
GADSDEN - FW	3/16	1100	G	Drinking Water	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes				

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify): **Part 537.1 bottles ppw 03/17/24**
 Empty Kit Relinquished by: _____ Date: **3/16/24**
 Relinquished by: **H. BROOKINS TO COOK** Date/Time: **3/16/24** Company: **SWWSB** Time: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seal No: **1111** Custody Seal No: _____
 Custody Seal Intact: Yes No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Received by: **Fairy Balinghuyt** Date/Time: **03/16/24 0900** Company: **ETX**
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Total Number of containers: _____
 Special Instructions/Note: **Turbidity**
 Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsH2O2
 D - Nitric Acid P - Na2SO4
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecahydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4.5
 L - EDTA Y - Trizma
 Z - other (specify)