

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

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

Generated 2/26/2024 10:50:23 AM

JOB DESCRIPTION

PFAS - Gadsden

JOB NUMBER

810-93936-1

Case Narrative

Client: Gadsden Water Works
Project: PFAS - Gadsden

Job ID: 810-93936-1

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Eurofins Eaton Analytical South Bend

Job Narrative 810-93936-1

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 2/15/2024 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 0.6°C.

PFAS

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 - Gadsden

Job ID: 810-93936-1

Client Sample ID: Gadsden - RW

Lab Sample ID: 810-93936-1

Date Collected: 02/13/24 21:00

Matrix: Drinking Water

Date Received: 02/15/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000020		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorohexanoic acid (PFHxA)	0.000025		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorooctanoic acid (PFOA)	0.000023		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.000026		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorobutanesulfonic acid (PFBS)	0.000068		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluoroheptanoic acid (PFHpA)	0.0000083		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorononanoic acid (PFNA)	0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	88		70 - 130			02/19/24 09:18	02/20/24 14:50	1
13C2 PFDA	106		70 - 130			02/19/24 09:18	02/20/24 14:50	1
13C3 HFPO-DA	87		70 - 130			02/19/24 09:18	02/20/24 14:50	1
d5-NEtFOSAA	101		70 - 130			02/19/24 09:18	02/20/24 14:50	1

Client Sample ID: Gadsden - FW

Lab Sample ID: 810-93936-2

Date Collected: 02/14/24 11:00

Matrix: Drinking Water

Date Received: 02/15/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000015		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorohexanoic acid (PFHxA)	0.000022		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorooctanoic acid (PFOA)	0.000018		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorobutanesulfonic acid (PFBS)	0.000071		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluoroheptanoic acid (PFHpA)	0.0000071		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS - Gadsden

Job ID: 810-93936-1

Client Sample ID: Gadsden - FW

Lab Sample ID: 810-93936-2

Date Collected: 02/14/24 11:00

Matrix: Drinking Water

Date Received: 02/15/24 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		02/19/24 09:18	02/20/24 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			02/19/24 09:18	02/20/24 14:18	1
13C2 PFDA	105		70 - 130			02/19/24 09:18	02/20/24 14:18	1
13C3 HFPO-DA	96		70 - 130			02/19/24 09:18	02/20/24 14:18	1
d5-NEtFOSAA	102		70 - 130			02/19/24 09:18	02/20/24 14:18	1

Client Sample ID: FTB

Lab Sample ID: 810-93936-3

Date Collected: 02/13/24 21:00

Matrix: Drinking Water

Date Received: 02/15/24 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		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorooctanoic acid (PFOA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		02/22/24 10:21	02/23/24 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			02/22/24 10:21	02/23/24 11:44	1

Eurofins Eaton Analytical South Bend

Chain of Custody Record



810-93936 Chain of Custody

Client: **Michael Brookins**
Mike Lankford

Sampler: **MICHAEL BROOKINS**
Project: **(256) 543-2884**
Lab PM: **Nathan**
E-Mail: **Nathan.Towbridge@et.eurofims.com**

Carrier Tracking No(s):
State of Origin

COC No: **810-16711-5449 1**
Page: **Page 1 of 1**

Company: **Gadsden Water Works**
Address: **515 Albert Rains Blvd**
City: **Gadsden**
State, Zip: **AL, 35901**
Phone: **AL, 35901**
Email: **mlankford@gadsdenwater.org**
Project Name: **PEAS-533**
Site: **GADSDEN**

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overhaul, A=Al, B=Br, C=Cu, D=Dr, E=Et, F=Fe, G=Gr, H=Hg, I=In, J=Jn, K=Kd, L=Li, M=Mn, N=Ni, O=Ox, P=Pb, Q=Pc, R=Pd, S=Se, T=Te, U=Ua, V=Vn, W=Wt, X=Xn, Y=Zn, Z=Zn)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Carrier Tracking No(s)	State of Origin	Job #	Preservation Codes:
GADSDEN - RW	2/13	2100	G	Drinking Water	Y	Y	537.1_DW_PREC - PFC18				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 - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - Trizma Y - Trizma Z - other (Specify)
GADSDEN - RW	2/13	2100	G	Drinking Water	Y	Y					
GADSDEN - RW	2/14	1100	G	Drinking Water	Y	Y					
TRIP BLANK				Drinking Water							

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
Total Number of containers: **200**
Special Instructions/Note: **TU 3/6/24**

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: **2/14/24** Time:
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:

Relinquished by: **MICHAEL BROOKINS** Date/Time: **2/14/24** Company: **GWWS3**
Relinquished by: **TO COOLER** Date/Time: Company:
Received by: **Leah Tinsley** Date/Time: **2/15/24 0900** Company:
Received by: Date/Time: Company:
Cooler Temperature(s) °C and Other Remarks:

Custody Seals Intact: Yes No
Custody Seal No.: