

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

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

Generated 11/24/2025 2:53:00 PM

JOB DESCRIPTION

PFAS - Gadsden Water

JOB NUMBER

810-172255-1

Definitions/Glossary

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

Job ID: 810-172255-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

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

Job ID: 810-172255-1

Client Sample ID: Gadsden-RW

Lab Sample ID: 810-172255-1

Date Collected: 11/16/25 22:15

Matrix: Drinking Water

Date Received: 11/18/25 09:15

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000025		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluoroundecanoic acid (PFUnA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorohexanoic acid (PFHxA)	0.000025		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorododecanoic acid (PFDoA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorooctanoic acid (PFOA)	0.000024		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorodecanoic acid (PFDA)	0.000025		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.000034		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorobutanesulfonic acid (PFBS)	0.000086		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluoroheptanoic acid (PFHpA)	0.000084		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorononanoic acid (PFNA)	0.000025		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorotetradecanoic acid (PFTeDA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Perfluorotridecanoic acid (PFTrDA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130			11/19/25 02:17	11/19/25 21:32	1
13C2 PFDA	94		70 - 130			11/19/25 02:17	11/19/25 21:32	1
13C3 HFPO-DA	88		70 - 130			11/19/25 02:17	11/19/25 21:32	1
d5-NEtFOSAA	92		70 - 130			11/19/25 02:17	11/19/25 21:32	1

Client Sample ID: Gadsden-FW

Lab Sample ID: 810-172255-2

Date Collected: 11/17/25 11:00

Matrix: Drinking Water

Date Received: 11/18/25 09:15

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000014		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluoroundecanoic acid (PFUnA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorohexanoic acid (PFHxA)	0.000024		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorododecanoic acid (PFDoA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorooctanoic acid (PFOA)	0.000018		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorodecanoic acid (PFDA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorohexanesulfonic acid (PFHxS)	0.000020		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorobutanesulfonic acid (PFBS)	0.000074		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluoroheptanoic acid (PFHpA)	0.000069		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1
Perfluorononanoic acid (PFNA)	<0.000019		0.000019	mg/L		11/19/25 02:17	11/19/25 21:43	1

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Client Sample Results

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

Job ID: 810-172255-1

Client Sample ID: Gadsden-FW

Lab Sample ID: 810-172255-2

Date Collected: 11/17/25 11:00

Matrix: Drinking Water

Date Received: 11/18/25 09:15

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
Perfluorotridecanoic acid (PFTTrDA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
11-Chloroeicosafluoro-3-oxadecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/19/25 02:17	11/19/25 21:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C2 PFHxA	105		70 - 130			11/19/25 02:17	11/19/25 21:43	1	
13C2 PFDA	101		70 - 130			11/19/25 02:17	11/19/25 21:43	1	
13C3 HFPO-DA	101		70 - 130			11/19/25 02:17	11/19/25 21:43	1	
d5-NEtFOSAA	98		70 - 130			11/19/25 02:17	11/19/25 21:43	1	

Client Sample ID: Trip Blank

Lab Sample ID: 810-172255-3

Date Collected: 11/17/25 00:00

Matrix: Drinking Water

Date Received: 11/18/25 09:15

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Perfluorooctanesulfonic acid (PFOS)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorooctanoic acid (PFOA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Perfluorotridecanoic acid (PFTTrDA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
11-Chloroeicosafluoro-3-oxadecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/20/25 15:14	11/21/25 23:27	1	

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810-172255 Chain of Custody

Chain of Custody Record

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Environment Testing

Sample: **NICHAEEL BROOKINS** Lab PM: **Trowbridge, Nathan** Carrier Tracking No(s): **810-60659-12932.1**
 Project: **051543-2884** E-Mail: **Nathan.Trowbridge@et.eurofins.com** State of Origin: **GA** Page: **1 of 1**
 PWSID: _____ Job #: _____

Company: **Gadsden Water Works** Due Date Requested: _____ Preservation Codes: **Y - Tizma**
 Address: **515 Albert Rains Blvd** TAT Requested (days): _____
 City: **Gadsden** Compliance Project: Yes No

State, Zip: **AL, 35901** PO #: _____
 Phone: _____ Purchase Order not required
 Email: **mlankford@gadsdenwater.org** WO #: _____
 Project Name: **PFAS** Project #: **81004291**

Site: **GADSDEN WATER** SSO#: _____
 Matrix: **(Water, Soil, Overstool, BT-Tissue, AAR, DM-Drinking Water)**
 Field Filtered Sample (Yes or No): Yes No
 Perform MS/MSD (Yes or No): **537.1_DW_PREC - PFC18**

PFAS Preservation Lot # Verified to Match
 Sample Identification: **GADSDEN - RW** Sample Date: **11/15/2015** Sample Time: **5**
GADSDEN - FW Sample Date: **11/17/10** Sample Time: **5**
TRIP BLANK Sample Date: _____ Sample Time: _____
 Matrix: **drinking water**
 Total Number of containers: **2** Special Instructions/Note: **Turbidity**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
GADSDEN - RW	11/15/2015	5	G	drinking water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	Turbidity
GADSDEN - FW	11/17/10	5	G	drinking water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
TRIP BLANK				drinking water	<input type="checkbox"/>	<input type="checkbox"/>		

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: **R. BROOKINS to COOPR** Date: **11/17/15** Time: **1:00** Method of Shipment: _____
 Relinquished by: _____ Date/Time: **11/17/15 1:00** Company: **EUROFINS** Received by: **[Signature]**
 Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____
 Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____

Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____