

ANALYTICAL REPORT

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Laboratory Job ID: 280-146206-1
Client Project/Site: Gadsden PFC Sampling

For:
Gadsden Water Works
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Gadsden, Alabama 35901

Attn: Mike Lankford



Authorized for release by:
3/15/2021 12:46:10 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

Client: Gadsden Water Works
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Narrative

CASE NARRATIVE

Client: Gadsden Water Works

Project: Gadsden PFC Sampling

Report Number: 280-146206-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/10/2021 9:25 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 was 2.3° C.

PERFLUORINATED HYDROCARBONS (PFC)

Samples Gadsden-RW (280-146206-1) and Gadsden-FW (280-146206-2) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared and analyzed on 03/12/2021.

Method DV-LC-0012: The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: Gadsden-RW (280-146206-1), Gadsden-FW (280-146206-2). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples. Preparation batch 280-528918 and analytical batch 280-528976 PFC.

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



Detection Summary

Client: Gadsden Water Works
Project/Site: Gadsden PFC Sampling

Job ID: 280-146206-1

Client Sample ID: Gadsden-RW

Lab Sample ID: 280-146206-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.17		0.016	0.0068	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.021		0.016	0.0080	ug/L	1		DV-LC-0012	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.012	J	0.025	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.038		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.068		0.025	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.034		0.016	0.0080	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.057		0.025	0.0089	ug/L	1		DV-LC-0012	Total/NA

Client Sample ID: Gadsden-FW

Lab Sample ID: 280-146206-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.086		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.013	J	0.016	0.0078	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.021		0.016	0.0063	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.025		0.024	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.016		0.016	0.0078	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.032		0.024	0.0086	ug/L	1		DV-LC-0012	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver



Sample Summary

Client: Gadsden Water Works
Project/Site: Gadsden PFC Sampling

Job ID: 280-146206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-146206-1	Gadsden-RW	Water	03/08/21 20:15	03/10/21 09:25	
280-146206-2	Gadsden-FW	Water	03/09/21 11:00	03/10/21 09:25	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Gadsden Water Works
Project/Site: Gadsden PFC Sampling

Job ID: 280-146206-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: Gadsden-RW

Date Collected: 03/08/21 20:15

Date Received: 03/10/21 09:25

Lab Sample ID: 280-146206-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.17		0.016	0.0068	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorobutanoic acid (PFBA)	0.021		0.016	0.0080	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorodecanesulfonic acid (PFDS)	0.0075	U	0.016	0.0075	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorodecanoic acid (PFDA)	0.0064	U	0.016	0.0064	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.025	0.012	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluoroheptanoic acid (PFHpA)	0.012	J	0.025	0.011	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.0057	U	0.025	0.0057	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorohexanoic acid (PFHxA)	0.038		0.016	0.0065	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorononanoic acid (PFNA)	0.0062	U	0.033	0.0062	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorooctane sulfonate (PFOS)	0.068		0.025	0.011	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorooctanoic acid (PFOA)	0.034		0.016	0.0080	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluoropentanoic acid (PFPA)	0.057		0.025	0.0089	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.025	0.012	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluorotridecanoic acid (PFTriA)	0.015	U	0.033	0.015	ug/L		03/12/21 06:55	03/12/21 15:15	1
Perfluoroundecanoic acid (PFUnA)	0.0057	U	0.016	0.0057	ug/L		03/12/21 06:55	03/12/21 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	109		60 - 155				03/12/21 06:55	03/12/21 15:15	1
13C8 PFOS	122		45 - 130				03/12/21 06:55	03/12/21 15:15	1

Client Sample ID: Gadsden-FW

Date Collected: 03/09/21 11:00

Date Received: 03/10/21 09:25

Lab Sample ID: 280-146206-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.086		0.016	0.0065	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorobutanoic acid (PFBA)	0.013	J	0.016	0.0078	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorodecanesulfonic acid (PFDS)	0.0072	U	0.016	0.0072	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorodecanoic acid (PFDA)	0.0062	U	0.016	0.0062	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluoroheptanoic acid (PFHpA)	0.010	U	0.024	0.010	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055	U	0.024	0.0055	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorohexanoic acid (PFHxA)	0.021		0.016	0.0063	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorononanoic acid (PFNA)	0.0059	U	0.032	0.0059	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorooctane sulfonate (PFOS)	0.025		0.024	0.011	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorooctanoic acid (PFOA)	0.016		0.016	0.0078	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluoropentanoic acid (PFPA)	0.032		0.024	0.0086	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.032	0.014	ug/L		03/12/21 06:55	03/12/21 15:24	1
Perfluoroundecanoic acid (PFUnA)	0.0055	U	0.016	0.0055	ug/L		03/12/21 06:55	03/12/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	110		60 - 155				03/12/21 06:55	03/12/21 15:24	1
13C8 PFOS	118		45 - 130				03/12/21 06:55	03/12/21 15:24	1