

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-154138-1
Client Project/Site: Gadsden PFC Sampling

For:
Gadsden Water Works
515 Albert Rains Blvd
Gadsden, Alabama 35901

Attn: Mike Lankford



Authorized for release by:
10/20/2021 8:52:10 AM

Betsy Sara, Project Manager II
(303)736-0189
Betsy.Sara@Eurofinset.com

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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
Project/Site: Gadsden PFC Sampling

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Narrative

CASE NARRATIVE

Client: Gadsden Water Works

Project: Gadsden PFC Sampling

Report Number: 280-154138-1

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 10/14/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.1 C.

PERFLUORINATED HYDROCARBONS (PFC)

Samples GADSDEN - RW (280-154138-1), GADSDEN - FW (280-154138-2) and GADSDEN - DISCHARGE (280-154138-3) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 10/18/2021 and analyzed on 10/19/2021.

The method required MS/MSD could not be performed due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

No 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: 280-154138-1

Client Sample ID: GADSDEN - RW

Lab Sample ID: 280-154138-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.088		0.016	0.0067	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.011	J	0.016	0.0080	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.024		0.016	0.0064	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.043		0.024	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.021		0.016	0.0080	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.041		0.024	0.0089	ug/L	1		DV-LC-0012	Total/NA

Client Sample ID: GADSDEN - FW

Lab Sample ID: 280-154138-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.058		0.017	0.0070	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.014	J	0.017	0.0067	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.028		0.026	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.015	J	0.017	0.0084	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.023	J	0.026	0.0093	ug/L	1		DV-LC-0012	Total/NA

Client Sample ID: GADSDEN - DISCHARGE

Lab Sample ID: 280-154138-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.099		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.012	J	0.016	0.0077	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.023		0.016	0.0062	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.039		0.024	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.020		0.016	0.0077	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.040		0.024	0.0086	ug/L	1		DV-LC-0012	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Client Sample Results

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

Job ID: 280-154138-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: GADSDEN - RW

Date Collected: 10/12/21 20:24

Date Received: 10/14/21 09:35

Lab Sample ID: 280-154138-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.088		0.016	0.0067	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorobutanoic acid (PFBA)	0.011	J	0.016	0.0080	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorodecanesulfonic acid (PFDS)	0.0074	U	0.016	0.0074	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorodecanoic acid (PFDA)	0.0064	U	0.016	0.0064	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluoroheptanoic acid (PFHpA)	0.011	U	0.024	0.011	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.0057	U	0.024	0.0057	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorohexanoic acid (PFHxA)	0.024		0.016	0.0064	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorononanoic acid (PFNA)	0.0061	U	0.033	0.0061	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorooctane sulfonate (PFOS)	0.043		0.024	0.011	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorooctanoic acid (PFOA)	0.021		0.016	0.0080	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluoropentanoic acid (PFPA)	0.041		0.024	0.0089	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.033	0.014	ug/L		10/18/21 16:22	10/19/21 09:20	1
Perfluoroundecanoic acid (PFUnA)	0.0056	U	0.016	0.0056	ug/L		10/18/21 16:22	10/19/21 09:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	99		60 - 155				10/18/21 16:22	10/19/21 09:20	1
13C8 PFOS	99		45 - 130				10/18/21 16:22	10/19/21 09:20	1

Client Sample ID: GADSDEN - FW

Date Collected: 10/13/21 11:00

Date Received: 10/14/21 09:35

Lab Sample ID: 280-154138-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.058		0.017	0.0070	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorobutanoic acid (PFBA)	0.0084	U	0.017	0.0084	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorodecanesulfonic acid (PFDS)	0.0078	U	0.017	0.0078	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorodecanoic acid (PFDA)	0.0067	U	0.017	0.0067	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorododecanoic acid (PFDoA)	0.013	U	0.026	0.013	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluoroheptanoic acid (PFHpA)	0.011	U	0.026	0.011	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.0060	U	0.026	0.0060	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorohexanoic acid (PFHxA)	0.014	J	0.017	0.0067	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorononanoic acid (PFNA)	0.0064	U	0.034	0.0064	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorooctane sulfonate (PFOS)	0.028		0.026	0.011	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorooctanoic acid (PFOA)	0.015	J	0.017	0.0084	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluoropentanoic acid (PFPA)	0.023	J	0.026	0.0093	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorotetradecanoic acid (PFTeA)	0.013	U	0.026	0.013	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluorotridecanoic acid (PFTriA)	0.015	U	0.034	0.015	ug/L		10/18/21 16:22	10/19/21 09:29	1
Perfluoroundecanoic acid (PFUnA)	0.0059	U	0.017	0.0059	ug/L		10/18/21 16:22	10/19/21 09:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	102		60 - 155				10/18/21 16:22	10/19/21 09:29	1
13C8 PFOS	103		45 - 130				10/18/21 16:22	10/19/21 09:29	1

Client Sample Results

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

Job ID: 280-154138-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: GADSDEN - DISCHARGE

Lab Sample ID: 280-154138-3

Date Collected: 10/13/21 10:00


Matrix: Water

Date Received: 10/14/21 09:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.099		0.016	0.0065	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorobutanoic acid (PFBA)	0.012	J	0.016	0.0077	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorodecanesulfonic acid (PFDS)	0.0072	U	0.016	0.0072	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorodecanoic acid (PFDA)	0.0062	U	0.016	0.0062	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluoroheptanoic acid (PFHpA)	0.010	U	0.024	0.010	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055	U	0.024	0.0055	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorohexanoic acid (PFHxA)	0.023		0.016	0.0062	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorononanoic acid (PFNA)	0.0059	U	0.032	0.0059	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorooctane sulfonate (PFOS)	0.039		0.024	0.011	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorooctanoic acid (PFOA)	0.020		0.016	0.0077	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluoropentanoic acid (PFPA)	0.040		0.024	0.0086	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.032	0.014	ug/L		10/18/21 16:22	10/19/21 09:38	1
Perfluoroundecanoic acid (PFUnA)	0.0054	U	0.016	0.0054	ug/L		10/18/21 16:22	10/19/21 09:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	104		60 - 155				10/18/21 16:22	10/19/21 09:38	1
13C8 PFOS	103		45 - 130				10/18/21 16:22	10/19/21 09:38	1

Chain of Custody Record



Client Information Client Contact: Mike Lankford Phone: (256) 543-2884 Lab P.M.: Sara, Betsy A E-Mail: Betsy_Sara@Eurofinsnet.com		Carrier Tracking No(s): COC No: 280-98696-29755.1 Page: Page 1 of 1 Job #:							
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 28020645 "PFC Waters" SSOV#:		Analysis Requested 280-154138 Chain of Custody  Total Number of Containers: 2							
Address: 515 Albert Rains Blvd City: Gadsden State, Zip: AL, 35901 Phone: Email: milanford@gadsdenwater.org Project Name: Gadsden PFC Sampling Site: GADSDEN									
Sample Identification GADSDEN - RW GADSDEN - FW GADSDEN - DISCHARGE		Sample Date 10/12/21 10/13/21 10/13/21	Sample Time 2024 1100 1000	Sample Type (C=Comp, G=grab) G G G	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air) W W W	Field Filtered Sample (Yes or No) N N N	Perform MS/MSD (Yes or No) N N N	PFCs X X X	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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify) TURBIDITY -
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		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 Archive For: _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Method of Shipment:							
M. BROOKINS TO COOLER Relinquished by:		Date: 10/13/2021 Received by: <i>Sara Baki</i> Date/Time: 10/14/2021 09:35 Company: BTADEN							
Relinquished by:		Date/Time:							
Relinquished by:		Date/Time:							
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 1.1 CF+1.0 IR 11							