

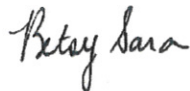
ANALYTICAL REPORT

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

Laboratory Job ID: 280-149954-1
Client Project/Site: Gadsden PFC Sampling

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

Attn: Mike Lankford



Authorized for release by:
6/25/2021 7:44:25 AM

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

LINKS

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results through
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 280-149954-1

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 6/17/2021 10:15 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 3.8° C.

PERFLUORINATED HYDROCARBONS (PFC)

Samples GADSDEN RW (280-149954-1) and GADSDEN FW (280-149954-2) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 06/23/2021 and analyzed on 06/24/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD), however, an 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: 280-149954-1

Client Sample ID: GADSDEN RW

Lab Sample ID: 280-149954-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.093		0.017	0.0071	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.0096	J	0.017	0.0084	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.034		0.017	0.0068	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.036		0.026	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.024		0.017	0.0084	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.043		0.026	0.0094	ug/L	1		DV-LC-0012	Total/NA

Client Sample ID: GADSDEN FW

Lab Sample ID: 280-149954-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.040		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.014	J	0.016	0.0077	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.015	J	0.016	0.0062	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.015	J	0.024	0.010	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.0085	J	0.016	0.0077	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.028		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: 280-149954-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: GADSDEN RW

Date Collected: 06/15/21 21:15

Date Received: 06/17/21 15:41

Lab Sample ID: 280-149954-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.093		0.017	0.0071	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorobutanoic acid (PFBA)	0.0096	J	0.017	0.0084	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorodecanesulfonic acid (PFDS)	0.0079	U	0.017	0.0079	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorodecanoic acid (PFDA)	0.0067	U	0.017	0.0067	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorododecanoic acid (PFDoA)	0.013	U	0.026	0.013	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluoroheptanoic acid (PFHpA)	0.011	U	0.026	0.011	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorohexanesulfonic acid (PFHxS)	0.0060	U	0.026	0.0060	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorohexanoic acid (PFHxA)	0.034		0.017	0.0068	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorononanoic acid (PFNA)	0.0064	U	0.034	0.0064	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorooctane sulfonate (PFOS)	0.036		0.026	0.011	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorooctanoic acid (PFOA)	0.024		0.017	0.0084	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluoropentanoic acid (PFPA)	0.043		0.026	0.0094	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorotetradecanoic acid (PFTeA)	0.013	U	0.026	0.013	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluorotridecanoic acid (PFTriA)	0.015	U	0.034	0.015	ug/L		06/23/21 15:50	06/24/21 12:13	1
Perfluoroundecanoic acid (PFUnA)	0.0059	U	0.017	0.0059	ug/L		06/23/21 15:50	06/24/21 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	100		60 - 155				06/23/21 15:50	06/24/21 12:13	1
13C8 PFOS	97		45 - 130				06/23/21 15:50	06/24/21 12:13	1

Client Sample ID: GADSDEN FW

Date Collected: 06/16/21 11:00

Date Received: 06/17/21 15:41

Lab Sample ID: 280-149954-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.040		0.016	0.0065	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorobutanoic acid (PFBA)	0.014	J	0.016	0.0077	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorodecanesulfonic acid (PFDS)	0.0072	U	0.016	0.0072	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorodecanoic acid (PFDA)	0.0061	U	0.016	0.0061	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluoroheptanoic acid (PFHpA)	0.010	U	0.024	0.010	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055	U	0.024	0.0055	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorohexanoic acid (PFHxA)	0.015	J	0.016	0.0062	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorononanoic acid (PFNA)	0.0059	U	0.031	0.0059	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorooctane sulfonate (PFOS)	0.015	J	0.024	0.010	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorooctanoic acid (PFOA)	0.0085	J	0.016	0.0077	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluoropentanoic acid (PFPA)	0.028		0.024	0.0086	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.031	0.014	ug/L		06/23/21 15:50	06/24/21 12:22	1
Perfluoroundecanoic acid (PFUnA)	0.0054	U	0.016	0.0054	ug/L		06/23/21 15:50	06/24/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	103		60 - 155				06/23/21 15:50	06/24/21 12:22	1
13C8 PFOS	98		45 - 130				06/23/21 15:50	06/24/21 12:22	1

4955 Yarrow Street
 Arvada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

Client Information
 Client Contact: Mike Lankford
 Company: Gadsden Water Works
 Address: 515 Albert Rains Blvd
 City: Gadsden
 State, Zip: AL, 35901
 Phone: PO #
 Email: mlankford@gadsdenwater.org
 Project Name: Gadsden PFC Sampling
 Site: GADSDEN

Sampler: BROOKINS
 Phone: (256) 543-2884
 Lab PM: Sara, Betsy A
 E-Mail: Betsy_Sara@Eurofins.com

Due Date Requested:
 TAT Requested (days):
 Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Soil, Air, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCs	Total Number of containers	Special Instructions/Note:
GADSDEN RW	6/15/21	1115	G	W		X	X		2	Tub P4
GADSDEN FW	6/16/21	1100	G	W		X	X		2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by:
 Relinquished by: MD HO COOPER
 Date/Time: 6/16/21
 Company: Eurofins

Special 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:
 280-149954 Chain of Custody



Received By: [Signature]
 Date/Time: 6/17/21
 Company: Eurofins
 Method of Shipment: FIPS
 Date/Time: 6/17/21
 Company: Eurofins

Cooler Temperature(s) °C and Other Remarks: 3.4 Fern (P4)
 Custody Seals Intact: Yes No
 Custody Seal No.:

COC No: 280-98996-29755.1
 Page: Page 1 of 1
 Job #:

Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 280-149954-1

Login Number: 149954

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Collins, Janice S

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

