

## ANALYTICAL REPORT

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

Laboratory Job ID: 280-152237-1  
Client Project/Site: Gadsden PFC Sampling

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

Attn: Mike Lankford



Authorized for release by:  
8/31/2021 9:02:40 AM

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

### LINKS

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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

Job ID: 280-152237-1

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**Laboratory: Eurofins TestAmerica, Denver**

**Narrative**

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## CASE NARRATIVE

**Client: Gadsden Water Works**

**Project: Gadsden PFC Sampling**

**Report Number: 280-152237-1**

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 sample was received on 8/25/2021 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

### PERFLUORINATED HYDROCARBONS (PFC)

Sample GAC (280-152237-1) was analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 08/27/2021 and analyzed on 08/30/2021.

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: 280-152237-1

**Client Sample ID: GAC**

**Lab Sample ID: 280-152237-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.22		0.020	0.0083	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.045		0.020	0.0098	ug/L	1		DV-LC-0012	Total/NA
Perfluorodecanoic acid (PFDA)	0.049		0.020	0.0079	ug/L	1		DV-LC-0012	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.043		0.030	0.013	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.11		0.020	0.0079	ug/L	1		DV-LC-0012	Total/NA
Perfluorononanoic acid (PFNA)	0.012	J	0.040	0.0075	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.18		0.030	0.013	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.098		0.020	0.0098	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.17		0.030	0.011	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: 280-152237-1

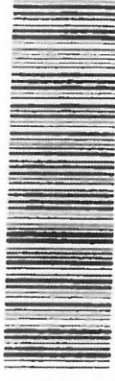
## Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: GAC  
 Date Collected: 08/24/21 08:00  
 Date Received: 08/25/21 10:00

Lab Sample ID: 280-152237-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.22</b>		0.020	0.0083	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.045</b>		0.020	0.0098	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluorodecanesulfonic acid (PFDS)	0.0092	U	0.020	0.0092	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorodecanoic acid (PFDA)</b>	<b>0.049</b>		0.020	0.0079	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluorododecanoic acid (PFDoA)	0.015	U	0.030	0.015	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.043</b>		0.030	0.013	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.0070	U	0.030	0.0070	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.11</b>		0.020	0.0079	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.012</b>	J	0.040	0.0075	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorooctane sulfonate (PFOS)</b>	<b>0.18</b>		0.030	0.013	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.098</b>		0.020	0.0098	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Perfluoropentanoic acid (PFPA)</b>	<b>0.17</b>		0.030	0.011	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluorotetradecanoic acid (PFTeA)	0.015	U	0.030	0.015	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluorotridecanoic acid (PFTriA)	0.018	U	0.040	0.018	ug/L		08/27/21 16:15	08/30/21 11:40	1
Perfluoroundecanoic acid (PFUnA)	0.0069	U	0.020	0.0069	ug/L		08/27/21 16:15	08/30/21 11:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 PFOA	102		60 - 155				08/27/21 16:15	08/30/21 11:40	1
13C8 PFOS	97		45 - 130				08/27/21 16:15	08/30/21 11:40	1

# Chain of Custody Record



**Client Information**  
 Client Contact: Sara, Betsy A  
 Phone: E-Mail: Betsy.Sara@eurofins.com

**Sampler**  
 Lab PM: Sara, Betsy A  
 E-Mail: Betsy.Sara@eurofins.com

**Company**  
 Gadsden Water Works

**Address**  
 515 Albert Rains Blvd  
 Gadsden  
 State, Zip: AL 35901  
 Phone

**Email**  
 mlankford@gadsdenwater.org

**Project Name**  
 Gadsden PFC Sampling

**Site**  
 28020645 "PFC Waters"

**Due Date Requested:**  
 TAT Requested (days):  
 PO #:  
 WO #:  
 Project #:  
 SSO#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, B=soil, O=soil/sediment, B1=titium, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCs	Analysis Requested	Total Number of Containers	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Antichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	Special Instructions/Note: Check For PFAS
GAC	8/24/21	0800	C		X	X	N		X		
GAC	8/24/21	0800	C		X	X	N		X		
GAC	8/24/21	0800	C		X	X	N		X		
GAC	8/24/21	0800	C		X	X	N		X		

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV, Other (specify)

**Sample Disposal:**  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements:**

**Emply Kit Relinquished by:** MS to cooler  
 Relinquished by: *Michael Bunting*  
 Relinquished by: *Michael Bunting*  
 Relinquished by:

**Custody Seals Intact:**  Yes  No  
 Custody Seal No.:  
 Cooler Temperature(s) °C and Other Remarks: L.U. 12/11 (G.F.T.) 0

**Company**  
 Date/Time: 8/24/21 1300  
 Date/Time: 8/24/21 1300  
 Date/Time:  
 Date/Time:

**Method of Shipment:**  
 Date/Time: 8/24/21 1300  
 Date/Time:  
 Date/Time:

## Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 280-152237-1

Login Number: 152237

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Rystrom, Joshua R

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	