



# Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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August 17, 2018

Brunswick County Public Utilities  
Post Office Box 249  
Bolivia, NC 28422  
Attn: Glenn Walker

Report #2018-10752  
Collected – July 05, 2018

Enclosed please find your analytical report.

Sincerely,

Tammy Duran  
Environmental Chemists, Inc.

**ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis**  
**Customer: Environmental Chemists NLS Project: 303507**  
**Project Description: Method 537**  
**Project Title: Template: 537PPT2GENX Printed: 08/17/2018 08:50**

Sample: 1067432\_27055 (S01) Collected: 07/05/18 Analyzed: 07/23/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	[4.21]	ppt		1	3.6	1.1	J
perfluorohexanoic acid (PFHxA)	14.3	ppt		1	0.83	2.6	
perfluoro-2-propoxypropanoic acid (GenX)	11.4	ppt		1	0.62	2.0	
perfluorheptanoic acid (PFHpA)	14	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	5.24	ppt		1	1.3	4.1	
perfluorooctanoic acid (PFOA)	8.64	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	[1.66]	ppt		1	1.3	4.1	J
perfluorooctanesulfonic acid (PFOS)	13.1	ppt		1	1.5	4.7	
perfluorodecanoic acid (PFDA)	[1.85]	ppt		1	1.2	3.8	J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	86.778%			1			S
C13-PFDA (SURR)	95.28%			1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.  
 S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1067433\_27058 (E01) Collected: 07/05/18 Analyzed: 07/23/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	[3.95]	ppt		1	3.6	1.1	J
perfluorohexanoic acid (PFHxA)	16.5	ppt		1	0.83	2.6	
perfluoro-2-propoxypropanoic acid (GenX)	11.4	ppt		1	0.62	2.0	
perfluorheptanoic acid (PFHpA)	14.2	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	4.66	ppt		1	1.3	4.1	
perfluorooctanoic acid (PFOA)	8.88	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	[1.45]	ppt		1	1.3	4.1	J
perfluorooctanesulfonic acid (PFOS)	11.8	ppt		1	1.5	4.7	
perfluorodecanoic acid (PFDA)	[1.72]	ppt		1	1.2	3.8	J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	93.393%			1			S
C13-PFDA (SURR)	100.137%			1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.  
 S = This compound is a surrogate used to evaluate the quality control of a method.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.



Analytical & Consulting Chemists

# ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

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OFFICE: 910-392-0223 FAX 910-392-4424  
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## COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County Water

ADDRESS: P.O. Box 249

BOLIVIA, N.C. 28422

PROJECT NAME:

CONTACT NAME: GLENDA WALKER

REPORT TO: SAME

COPY TO:

REPORT NO: 2018-10752

PO NO:

PHONE/FAX:

email: glenn.walker@brunswickcounty.gov

Sampled By: Billy Benton

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

Sample Identification	Collection			Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION						ANALYSIS REQUESTED
	Date	Time	Temp						NONE	HCL	H2SO4	HNO3	NAOH	THO	
D70518-SD1	7/5/18	1040 AM	29.5	RAW	C	G		27055							EPA 537 + GENX
D70518-EO1	7/5/18	1040 AM		D/W	C	G		27058							
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