



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

May 22, 2018

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

Report #2018-06535

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: 298987
Project Description: PFCs and GenX by EPA 537
Project Title: Template: 537PPTGENX Printed: 05/22/2018 15:48

Sample: 1054112_18-16356 Collected: 04/26/18 Analyzed: 05/11/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	21.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	3.82	ppt		1	0.73	2.3		
perfluorohexanoic acid (PFHxA)	22.7	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.72]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	11	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.48]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.11]	ppt		1	0.90	2.7		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	70.494%			1				S
C13-PFDA (SURR)	90.031%			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: 1054113_18-16355 Collected: 04/26/18 Analyzed: 05/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	19.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	3.45	ppt		1	0.73	2.3		
perfluorohexanoic acid (PFHxA)	21.1	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.42]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	10.9	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.67]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	14	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.51]	ppt		1	0.90	2.7		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	59.309%			1				SRS
C13-PFDA (SURR)	85.671%			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.
 SR = Surrogate recovery was outside QC limits.
 C13-PFHxA recovered below QC limits.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive. GenX analysis performed by Modified EPA Method 537.



Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

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

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COLLECTION AND CHAIN OF CUSTODY

Client: Brunswick County Water	PROJECT NAME:	REPORT NO: 18-6535
ADDRESS: P.O. Box 249	CONTACT NAME: Gwendolyn Walker	PO NO:
Bolivia, N.C. 28422	REPORT TO: SAME	PHONE/FAX:
Sampled By: Billy BENTON		COPY TO:

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	THIO	OTHER		
042618-SD1	4/26/18	0830	18.9	RAW	C	P		16355								EPA 537 + GENX	
042618-E01	4/26/18	0830		DM	C	P		16356									
					C	P											
					C	P											
					C	P											
					C	P											
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					C	P											
					C	P											
					C	P											

Transfer	Relinquished By:	Date/Time
1.	Billy BENTON	
2.		

Temperature when Received:	Accepted: <input checked="" type="checkbox"/>
Delivered By: Billy BENTON	Received By: G. J. Walker
Comments:	Resample Requested: <input type="checkbox"/>
	Date: 4/26/18 Time: 1150
TURNAROUND:	