



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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December 14, 2018

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

Report #2018-18487
Collected – November 8, 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
 Project Description: 537 & GenX Testing
 Project Title: Template: 537PPT2GENX

NLS Project: 312292

Printed: 12/11/2018 15:52

Sample: 1093900_46763 Collected: 11/08/18 Analyzed: 11/29/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	10.9	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	6.41	ppt		1	0.62	2.0		
perfluorheptanoic acid (PFHpA)	10.1	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.29]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	8.21	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	11.3	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt		1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	74.521%			1				S
C13-PFDA (SURR)	86.889%			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: 1093901_46759 Collected: 11/08/18 Analyzed: 11/29/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	12.9	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	7.02	ppt		1	0.62	2.0		
perfluorheptanoic acid (PFHpA)	13.1	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	4.43	ppt		1	1.3	4.1		
perfluorooctanoic acid (PFOA)	7.96	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	14.1	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt		1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	89.202%			1				S
C13-PFDA (SURR)	86.413%			1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

CLIENT: Brunswick County Water PROJECT NAME: _____ REPORT NO: 2011-18487
 ADDRESS: P.O. Box 249 CONTACT NAME: GLENN WALKER PO NO: _____
BOLIVIA, N.C. 28422 REPORT TO: SAME PHONE/FAX: _____
 Copied By: Billy Beaton COPY TO: _____ email: glenn.walker@brunswickcounty.gov

Sampled By: _____ 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		Zn acetate
110818-S01	11-8-18	0935	17.7	RAW	C	(P)		46759								EPA 537 + GENX
110818-E01	11-8-18	0935	17.8	DLW	C	(G)		467123								
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

1. Transfer Relinquished By: Billy Beaton Date/Time: _____ Received By: _____ Date/Time: _____

2. Temperature when Received: _____ Accepted: _____ Rejected: _____ Resample Requested: _____
 Delivered By: _____ Received By: R. H. Moore Date: 11/2/18 Time: 1458
 Comments: _____ TURNAROUND: _____