



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

December 7, 2017

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

Report #2017-18147

Enclosed please find your analytical report.

Sincerely,

A handwritten signature in cursive script that reads "Tammy Duran".

Tammy Duran

Environmental Chemists, Inc.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Page 1 of 2

Customer: Environmental Chemists NLS Project: 291147

Project Description: PFCs with GenX

Project Title: Template: 537PPTGENX Printed: 12/07/2017 10:08

Sample: 1031142 Brunswick Cnty (44063) Collected: 11/22/17 Analyzed: 12/06/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	6.6	21		
perfluorohexanoic acid (PFHxA)	40	ppt	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	41.2	ppt	1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	35.7	ppt	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[6.58]	ppt	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	16	ppt	1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.24]	ppt	1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	10.2	ppt	1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.03]	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 (PFTrDA)	ND	ppt	1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	2.8	8.9		
C13-PFHxA (SURR)	88.312%						S
C13-PFDA (SURR)	87.337%						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: 1031146 Brunswick Cnty (44064) Collected: 11/22/17 Analyzed: 12/06/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	6.6	21		
perfluorohexanoic acid (PFHxA)	30.9	ppt	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	31.8	ppt	1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	22.8	ppt	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.09]	ppt	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.33	ppt	1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	[3.46]	ppt	1	1.7	5.3		J
perfluorodecanoic acid (PFDA)	ND	ppt	1	0.90	2.7		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	1.9	6.1		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	2.8	8.9		
C13-PFHxA (SURR)	87.006%						S
C13-PFDA (SURR)	83.208%						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. GenX analysis performed by Modified EPA Method 537.

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County PLED	PROJECT NAME: Gen X + Compounds	REPORT NO: 17-18147
ADDRESS: PO Box 249 Belivia, NC 28422	CONTACT NAME: Glenn Walker	PO NO:
	REPORT TO: Glenn Walker	PHONE/FAX: 910-371-3490
	COPY TO:	email: glenn-walker@brunswickcountync.gov

Sampled By: Thaddeus Hill

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	OTHER		
112217-S01	11-22-17			Raw	C	(P)		44063									EPA 537 + GenX
112217-E01	11-22-17			DW	C	(P)		44064									
					C	P											
					G	G											
					C	P											
					G	G											
					C	P											
					G	G											
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					C	P											
					G	G											

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.	Thaddeus Hill	11/22/17	Alta Boh	11/22/17 10:55
2.				

Temperature when Received: _____ Accepted: _____ Rejected: _____ Resample Requested: _____
 Delivered By: _____ Received By: _____ Date: _____ Time: _____
 Comments: _____ TURNAROUND: _____