



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

December 19, 2017

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

Report #2017-18556

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

Customer: Environmental Chemists NLS Project: 291782

Project Description: EPA 537 with GenX

Project Title: Template: 537PPTGENX Printed: 12/19/2017 08:38

Sample: 1032945 45048 Collected: 11/30/17 Analyzed: 12/15/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	39	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	30.1	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	32.6	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.44]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	11.7	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.34]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	5.33	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.19]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	83.169%							S
C13-PFDA (SURR)	85.836%							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: 1032945 45049 Collected: 11/30/17 Analyzed: 12/15/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	46.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	34	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	44.2	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	9.37	ppt		1	2.8	8.8		
perfluorooctanoic acid (PFOA)	19.5	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.81]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12.7	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.3]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	82.104%							S
C13-PFDA (SURR)	85.973%							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.

COLLECTION AND CHAIN OF CUSTODY

CLIENT: BrunswickCounty PLMD
 ADDRESS: PO Box 249
 Bolivia, NC 28422

PROJECT NAME: GenX Compounds
 CONTACT NAME: Glenn Walker
 REPORT TO: Glenn Walker
 COPY TO:

REPORT NO: 17-18554
 PO NO:
 PHONE/FAX: 910-371-3490
 email: glenn.walker@brunswickcountync.com

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

Sample Identification	Collection			Sample Type	Composits or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION						ANALYSIS REQUESTED	
	Date	Time	Temp						NONE	HCl	H2SO4	HNO3	NaOH	H2O		OTHER
113017-E01	11-30-17	0845	13.5° C	DW	G	G		45048								EPA 537 + GenX
113017-S01	11-30-17	0950	13.5° C	RAW	G	G		45049								/
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

Transfer: _____ Ballinquished By: _____ Date/Time: 11/30/17 Received By: _____ Date/Time: _____

1. _____
 2. _____

Temperature when Received: 32°C Accepted: Rejected: _____ Resample Requested: _____

Delivered By: _____ Received By: C. O. RASE Date: 11-30-17 Time: 11:22

Comments: _____

TURNAROUND: _____