



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

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Customer: Environmental Chemists NLS Project: 291782

Project Description: EPA 537 with GenX

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

Sample: 1032944 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		
perfluoroheptanoic 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 (PFTrDA)	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		
perfluoroheptanoic 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 (PFTrDA)	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: Brunswick County PLED	PROJECT NAME: Gen X + Compounds	REPORT NO: 17-18556
ADDRESS: PO Box 249 Bolivia, NC 28422	CONTACT NAME: Glenn Walker	PO NO:
	REPORT TO: Glenn Walker	PHONE/FAX: 910-371-3490
	COPY TO:	email: glenn.walker@brunswickcounty.nc.gov

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

Sample Identification	Collection			Sample Type	Composites 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		
113017-E01	11-30-17	0845	13.5°C	DW	(C) G	(P) G		45048									EPA 537 + GenX
113017-S01	11-30-17	0850	13.5°C	RAW	(C) G	(P) 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	Relinquished By:	Date/Time	Received By:	Date/Time
1.	<i>Billy Beaton</i>	11/30/17		
2.				

Temperature when Received: 32°C Accepted: Rejected: Resample Requested:
 Delivered By: _____ Received By: CO. GAUSE Date: 11-30-17 Time: 11:22
 Comments: _____ TURNAROUND: _____