



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

January 9, 2018

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

Report #2017-19610

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: 292493
 Project Description: GenX Testing
 Project Title: Template: 537PPTGENX Printed: 01/08/2018 15:43

Sample: 1034997 17-47543 Collected: 12/14/17 Analyzed: 01/05/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	35.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	78.7	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	39.5	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[7.62]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	15.7	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.58]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12.1	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.15]	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)	89.122%							S
C13-PFDA (SURR)	91.648%							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: 1034998 17-47544 Collected: 12/14/17 Analyzed: 01/05/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	37.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	38.6	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	32.1	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.52]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	10.9	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.9]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	[4.39]	ppt		1	1.7	5.3		J
perfluorodecanoic acid (PFDA)	[1.17]	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)	83.787%							S
C13-PFDA (SURR)	88.109%							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 PLUD
 ADDRESS: PO Box 2419
 Belvidere, NC 28542
 PROJECT NAME: Gen X Compounds
 CONTACT NAME: Glenn Walker
 REPORT TO: Glenn Walker
 COPY TO:
 REPORT NO: 17-196D
 PO NO:
 PHONE/FAX: 910-371-3490
 email: glenn.walker@brunswickcountync.gov

Sampled By: Billy Benton

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	1H	2HR	24H	48H	96H		7D	
121417-SD1	12-14-17	0830	11.8°C	RAW	C	P		47543								EPA 537 + Gen X	
121417-ED1	12-14-17	0830		DL	C	P		47544									
121417-ED1	12-14-17	0830		DL	C	P		47545									
					C	P											
					C	P											
					G	P											
					C	P											
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Transfer: Relinquished By: [Signature] Date/Time: 12-14-17 Received By: [Signature] Date/Time: [Blank]

Temperature when Received: [Blank] Accepted: [Signature] Resample Requested: [Blank]

Delivered By: [Signature] Received By: [Signature] Date: 12/14/17 Time: 3:00 PM

Comments: TURNAROUND: