



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 #2017-17826

Enclosed please find your analytical report.

Sincerely,

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

Tammy Duran

Environmental Chemists, Inc.

Customer: Environmental Chemists NLS Project: 291147
 Project Description: PFCs with GenX
 Project Title: Template: 537PPTGENX Printed: 12/07/2017 10:08

Sample: 1031147 Brunswick Utility (43199) Collected: 11/16/17 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)	28.7	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	35.1	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	26.1	ppt		1	0.80	2.6		
perfluorhexanesulfonic acid (PFHxS)	[6.35]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	11.3	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.67]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	10.2	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.76]	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)	90.371%							S
C13-PFDA (SURR)	84.145%							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: 1031148 Brunswick Utility (43200) Collected: 11/16/17 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)	27.3	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	35.5	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	21.6	ppt		1	0.80	2.6		
perfluorhexanesulfonic acid (PFHxS)	[3.63]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.63	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.81]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	5.4	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.02]	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)	93.663%							S
C13-PFDA (SURR)	92.773%							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 PWD
 ADDRESS: PO Box 249
 Belvidere, NC 28422

PROJECT NAME: Gen X Compounds
 CONTACT NAME: Glenn Walker
 REPORT TO: Glenn Walker

REPORT NO: 17-17826
 PO NO:
 PHONE/FAX: 910-371-3490
 email: glenn.walker@brunswickcounty.nc.gov

Sampled By: Billy BERTON
 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	THO		OTHER
111617 - SO1	11/16/17	0840	26.3	RAW	C	P		43819								EPA 537 + Gen X
111617 - E01	11/16/17	0840	26.3	DW	C	G		43800								
					C	P										
					G	G										
					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: [Signature]
 Date/Time: 11/16/17

Accepted: _____
 Received By: _____
 Date: _____

Temperature when Received: _____
 Delivered By: _____

Comments: _____

Resample Requested: _____
 Date: _____

TURNAROUND: _____
 Time: _____