envirochem (SM)

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax
710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax
255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

October 19, 2017

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

Report #2017-15503

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

Sample: 1022997 37377 Collected: 10/05/17 Analyzed: 10/13/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	6.6	21		
perfluorohexanoic acid (PFHxA)	31.6	ppt	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	30.1	ppt	1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	28.4	ppt	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[5.45]	ppt	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	15.3	ppt	1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.41]	ppt	1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.1	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)	75.04%						S
C13-PFDA (SURR)	84.684%						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.

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

Customer: Environmental Chemists NLS Project: 288648

Project Description: GenX and Other PFCs by EPA537

Project Title: Template: 537PPTGENX Printed: 10/18/2017 13:44

Sample: 1022998 37378 Collected: 10/05/17 Analyzed: 10/13/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	6.6	21		
perfluorohexanoic acid (PFHxA)	30.7	ppt	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	25.9	ppt	1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	30.1	ppt	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[6.06]	ppt	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	16.4	ppt	1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.56]	ppt	1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12.5	ppt	1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.17]	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 (PFTrDA)	ND	ppt	1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	2.8	8.9		
C13-PFHxA (SURR)	74.064%						S
C13-PFDA (SURR)	75.213%						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.

Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405
OFFICE: 910-392-0223 FAX 910-392-4424
info@environmentalchemists.com

COLLECTION AND CHAIN OF CUSTODY

CLIENT: BrunswickCounty PUD	PROJECT NAME: GenX + Compounds	REPORT NO:
ADDRESS: PO Box 249	CONTACT NAME: Glenn Walker	PO NO:
Bolivia, NC 28422	REPORT TO: Glenn Walker	PHONE/FAX: 910-371-3490
	COPY TO:	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 Date	Collection Time	Collection Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	Preservation NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	ANALYSIS REQUESTED
					C	(P)										
10517 - E01	10/5/17	1025 AM	24.8°c		(G)	G		37377								EPA 537 + GenX
					C	(P)										
10517 - S01	10/5/17	1025 AM	24.8°c		(G)	G		37378								/
					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										
					C	P										
					G	G										

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.	[signature]	10/5/17		
2.				

Temperature when Received: 1.0 Accepted: ✓ Rejected: Resample Requested:

Delivered By: Received By: [signature] Date: 10/5/17 Time: 1540

Comments: TURNAROUND: