October 27, 2017

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

Report #2017-15909

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

Sample: 1024689   17-38431   Collected: 10/12/17   Analyzed: 10/25/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	[6.86]	ppt		1	5.1	16		J
perfluorohexanoic acid (PFHxA)	41.5	ppt		1	0.81	2.6		BD
perfluoro-2-propoxypropanoic acid (GenX)	26.2	ppt		1	0.56	1.8		
perfluoroheptanoic acid (PFHpA)	37.4	ppt		1	0.38	1.2		
perfluorohexanesulfonic acid (PFHxS)	7.5	ppt		1	1.1	3.4		
perfluorooctanoic acid (PFOA)	21.8	ppt		1	0.81	2.6		
perfluorononanoic acid (PFNA)	6.18	ppt		1	0.70	2.2		
perfluorooctanesulfonic acid (PFOS)	16	ppt		1	1.9	6.1		
perfluorodecanoic acid (PFDA)	3.63	ppt		1	0.89	2.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	0.89	2.8		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.96	3.1		
perfluorotridecanoic acid (PFTrDA)	ND	ppt		1	0.76	2.4		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.81	2.6		
C13-PFHxA (SURR)	74.593%							S
C13-PFDA (SURR)	81.712%							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.

BD = Compound was detected in the laboratory method blank.
perfluorohexanoic acid (PFHxA) detected at .87 ppt.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive. GenX analysis performed by Modified EPA Method 537.

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

Customer: Environmental Chemists NLS Project: 289199

Project Description: GenX and Other PFCs

Project Title:

Template: 537PPT2GENX   Printed: 10/26/2017 15:33

Sample: 1024690   17-38432   Collected: 10/12/17   Analyzed: 10/25/17 -   Analytes: 13

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	5.1	16		
perfluorohexanoic acid (PFHxA)	35.8	ppt	1	0.81	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	25.9	ppt	1	0.56	1.8		BD
perfluoroheptanoic acid (PFHpA)	30.2	ppt	1	0.38	1.2		
perfluorohexanesulfonic acid (PFHxS)	5.18	ppt	1	1.1	3.4		
perfluorooctanoic acid (PFOA)	17	ppt	1	0.81	2.6		
perfluorononanoic acid (PFNA)	3.97	ppt	1	0.70	2.2		
perfluorooctanesulfonic acid (PFOS)	9.19	ppt	1	1.9	6.1		
perfluorodecanoic acid (PFDA)	[2.12]	ppt	1	0.89	2.8		J
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	0.89	2.8		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.96	3.1		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.76	2.4		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.81	2.6		
C13-PFHxA (SURR)	72.8%						S
C13-PFDA (SURR)	79.738%						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.

BD = Compound was detected in the laboratory method blank.

perfluorohexanoic acid (PFHxA) detected at .87 ppt.

COLLECTION AND CHAIN OF CUSTODY

Analytical & Consulting Chemists

NCDENR: DWQ CERTIFICATION # 94 NCDI#18: DLS CERTIFICATION # 37729

OFFICE: 910-392-0223 FAX 910-392-442A
info@environmentalchemists.com

CLIENT: BrunswickCounty PWD

ADDRESS: PO Box 249
Bolivia, NC 28422

PROJECT NAME: GenX + Compounds

CONTACT NAME: Glenn Walker

REPORT TO: Glenn Walker

COPY TO:

REPORT NO.: 17-15909

PO NO.:

PHONE/FAX: 910-371-3490

email: glenn-walker@brunswickcountync.gov

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	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	
101217-S01	10-12-17	0920	35	RW	G	P		38431								EPA 537 + GenX
101217-E01	10-12-17	0935		fin	G	P		38432								

Sampled By: Billy Benton

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

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.		10/12/17		
2.				

Temperature when Received:

Delivered By: | **Accepted:** | **Rejected:** | **Resample Requested:**

Received By: | **Date:** 10/12/17 | **Time:** 5:30

Comments:

TURNAROUND: