



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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March 14 2018

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

Report #2018-02843

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

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

Customer: Environmental Chemists NLS Project: 295353
 Project Description: EPA 537 with GenX
 Project Title: Template: 537PPTGENX Printed: 03/13/2018 14:29

Sample: 1042888 06949 Collected: 02/22/18 Analyzed: 03/09/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	6.98	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	7.7	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	6.26	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.68]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	6.35	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	11	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.11]	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 (PTTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	52.779%							SRS
C13-PFDA (SURR)	85.665%							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.
 SR = Surrogate recovery was outside QC limits.
 C13-PFHxA recovered below QC limits.

Sample: 1042889 06949 Collected: 02/22/18 Analyzed: 03/09/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	6.88	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	6.89	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	5.87	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.23]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	5.7	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	9.42	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[0.95]	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 (PTTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	51.41%							SRS
C13-PFDA (SURR)	90.002%							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.
 SR = Surrogate recovery was outside QC limits.
 C13-PFHxA recovered below QC limits.

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



Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

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

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COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County Water
ADDRESS: P.O. Box 249
Bovina, N.C. 28422

PROJECT NAME:
CONTACT NAME: GLENDA WALKER
REPORT TO: SAME

REPORT NO: 18-02843
PO NO:
PHONE/FAX:

Sampled By: Billy Benton
Relinquished By: Billy Benton
COPY TO:
email: glen.walker@brunswickcountync.gov

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	HCL	2500	SO4	PH	OTHER			
	022218 - S01	2-22-18	0840	16°	RAW	G	P		06948								EPA 537 + GenX
022218 - E01	2-22-18	0840		DU	G	G		06949									
					C	P											
					G	G											
					C	P											
					G	G											
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					G	G											

Temperature when Received: _____ Accepted: _____ Rejected: _____ Resample Requested: _____

Delivered By: Billy Benton Received By: [Signature] Date: 2/22/18 Time: 1000

Comments: _____