



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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April 30, 2018

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

Report #2018-05348

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: 297379
 Project Description: PFCs with GenX by EPA 537
 Project Title: Template: 537PPTGENX Printed: 04/28/2018 12:27

Sample: 1048866 13237 Collected: 04/05/18 Analyzed: 04/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	15.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	6.78	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	15.6	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.95]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.36	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.5]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.4	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	2.81	ppt		1	0.90	2.7		BD
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	78.15%			1				S
C13-PFDA (SURR)	91.612%			1				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.
 perfluorodecanoic acid (PFDA) detected at 2 ppt.

Sample: 1048867 13238 Collected: 04/05/18 Analyzed: 04/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	16.8	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	5.99	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	17	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.77]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.43	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.76]	ppt		1	1.5	4.9		J
perfluorodecanoic acid (PFDA)	10.4	ppt		1	1.7	5.3		
perfluoroundecanoic acid (PFUnA)	[2.55]	ppt		1	0.90	2.7		J BD
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.0	3.0		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	3.2	10		
C13-PFHxA (SURR)	78.932%			1	2.8	8.9		S
C13-PFDA (SURR)	97.833%			1				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.
 perfluorodecanoic acid (PFDA) detected at 2 ppt.



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

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COLLECTION AND CHAIN OF CUSTODY

Client: Brunswick County Water PROJECT NAME: 18-5348
 ADDRESS: P.O. Box 249 CONTACT NAME: GUENN WALKER PO NO:
BOVIVA, N.C. 28422 REPORT TO: SAME PHONE/FAX:
 COPY TO: email: ajenn.walker@brunswickcounty.nc.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	HCL	H2SO4	HNO3	NAOH		THIO	OTHER
040518-S01	4-5-18	0827	17.2	C	(P)		13237									EPA 537+ GENX
040518-E01	4-5-18	0827		C	(G)		13238									
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											

Transfer Relinquished By: Billy Benton Date/Time: 4-5-18 Received By: _____ Date/Time: _____

Temperature when Received: 7.6 Accepted: _____ Rejected: _____ Resample Requested: _____
 Delivered By: Billy Benton Received By: C. K. Mueller Date: 4-5-18 Time: 1200
 Comments: _____ TURNAROUND: _____