



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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February 9, 2018

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

Report #2018-00872

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: 294047
 Project Description: EPA 537 & GenX
 Project Title:

Template: 537PPTGENX Printed: 02/09/2018 11:06

Sample: 1039316_02141 Collected: 01/18/18 Analyzed: 02/08/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	37.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	38	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	37.7	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[7.36]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	13.4	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.48]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12.5	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.7]	ppt		1	0.90	2.7		
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)	93.284%							S
C13-PFDA (SURR)	78.521%							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: 1039317_02142 Collected: 01/18/18 Analyzed: 02/08/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	40.4	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	36.9	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	41.4	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[7.38]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	12.5	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.67]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.67]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	98.695%							S
C13-PFDA (SURR)	85.296%							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.

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

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County PUD PROJECT NAME: Gen X + Compounds REPORT NO: 18-872
 ADDRESS: PO Box 2497 CONTACT NAME: Glenn Walker PO NO:
Bohica, NC 28422 REPORT TO: Glenn Walker PHONE/FAX: 910-371-3490
 Copied By: Billy Benton email: glenn-walker@brunswickcounty.nc.gov

Sample Identification	Collection		Sample Type	Compos. G or Gb	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION						ANALYSIS REQUESTED		
	Date	Time						Temp	NONE	HCL	H2SO4	HNO3	NaOH		THF	OTHER
011818 - SO1	1-18-18	1415	7.8°C	C	(P)		2141									EPA 537 + Gen X
011818 - E01	1-18-18	1415		C	(G)		2142									/
				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: 1-18-18 Received By: _____ Date/Time: _____

Temperature when Received: 2.5 Accepted: Rejected:
 Delivered By: Billy Benton Resample Requested: _____
 Comments: _____ Received By: Billy Benton Date: 1/18/18 Time: 2:50p
 TURNAROUND: _____