



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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January 8, 2019

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

Report #2018-20227
Collected – December 06, 2018

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
 Project Description: PFCs by EPA 537 w/GenX
 Project Title:

NLS Project: 313957

Template: 537PPTGENX Printed: 01/07/2019 21:21

Sample: 1098892_#51053 Collected: 12/06/18 Analyzed: 01/03/19 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21	
perfluorohexanoic acid (PFHxA)	10.7	ppt		1	1.3	4.0	
perfluoro-2-propoxypropanoic acid (GenX)	2.64	ppt		1	0.73	2.3	
perfluorothepanoic acid (PFHpA)	11.8	ppt		1	0.80	2.6	
perfluorohexanesulfonic acid (PFHxS)	[3.23]	ppt		1	2.8	8.8	J
perfluorooctanoic acid (PFOA)	7.71	ppt		1	1.2	3.9	
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9	
perfluorooctanesulfonic acid (PFOS)	11.7	ppt		1	1.7	5.3	
perfluorodecanoic acid (PFDA)	[0.91]	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 (PFTA)	ND	ppt		1	2.8	8.9	
C13-PFHxA (SURR)	68.937%			1			SR S
C13-PFDA (SURR)	89.527%			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.
 SR = Surrogate recovery was outside QC limits.
 C13-PFHxA recovered below QC limits.

Sample: 1098893_#51054 Collected: 12/06/18 Analyzed: 01/03/19 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21	
perfluorohexanoic acid (PFHxA)	10.7	ppt		1	1.3	4.0	
perfluoro-2-propoxypropanoic acid (GenX)	2.93	ppt		1	0.73	2.3	
perfluorothepanoic acid (PFHpA)	11.6	ppt		1	0.80	2.6	
perfluorohexanesulfonic acid (PFHxS)	[4.05]	ppt		1	2.8	8.8	J
perfluorooctanoic acid (PFOA)	8.22	ppt		1	1.2	3.9	
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9	
perfluorooctanesulfonic acid (PFOS)	13.5	ppt		1	1.7	5.3	
perfluorodecanoic acid (PFDA)	ND	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 (PFTDA)	ND	ppt		1	3.2	10	
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9	
C13-PFHxA (SURR)	74.773%			1			S
C13-PFDA (SURR)	94.262%			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.

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

