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ANALYTICAL & CONSULTING CHEMISTS

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August 17, 2018

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

Report #2018-11706
Collected – July 19, 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 NLS Project: 304638
 Project Description: PFCs by EPA 537 w/GenX
 Project Title: Template: 537PPTGENX Printed: 08/16/2018 09:30

Sample: 1070644 29569 Collected: 07/19/18 Analyzed: 08/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	19.6	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	7.17	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	22.5	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[6.44]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	12.8	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.37]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	14.4	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.24]	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)	55.252%			1				SRS
C13-PFDA (SURR)	92.083%			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: 1070645 29560 Collected: 07/19/18 Analyzed: 08/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	17.6	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	6.45	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	19.9	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[5.73]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	11.2	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.86]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12.7	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.99]	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)	52.451%			1				SRS
C13-PFDA (SURR)	94.427%			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.

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

