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ANALYTICAL & CONSULTING CHEMISTS

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February 22, 2018

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

Report #2018-01601

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: 294440
 Project Description: EPA 537 & GenX
 Project Title: Template: 537PPTGENX Printed: 02/22/2018 08:29

Sample: 1040372 03956 Collected: 02/01/18 Analyzed: 02/16/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	27.6	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	14.1	ppt		1	0.73	2.3		
perfluorohexanesulfonic acid (PFHxS)	36.6	ppt		1	0.80	2.6		J
perfluorooctanoic acid (PFOA)	[8.0]	ppt		1	2.8	8.8		
perfluorononanoic acid (PFNA)	14	ppt		1	1.2	3.9		J
perfluorooctanesulfonic acid (PFOS)	[3.63]	ppt		1	1.5	4.9		
perfluorodecanoic acid (PFDA)	19.3	ppt		1	1.7	5.3		
perfluoroundecanoic acid (PFUnA)	[2.64]	ppt		1	0.90	2.7		J
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.0	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	3.2	10		
C13-PFHxA (SURR)	ND	ppt		1	2.8	8.9		
C13-PFDA (SURR)	53.468%							SR S
C13-PFTA (SURR)	92.578%							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: 1040373 03957 Collected: 02/01/18 Analyzed: 02/16/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	21.8	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	13.6	ppt		1	0.73	2.3		
perfluorohexanesulfonic acid (PFHxS)	25.7	ppt		1	0.80	2.6		
perfluorooctanoic acid (PFOA)	[4.77]	ppt		1	2.8	8.8		J
perfluorononanoic acid (PFNA)	8.54	ppt		1	1.2	3.9		
perfluorooctanesulfonic acid (PFOS)	[1.98]	ppt		1	1.5	4.9		J
perfluorodecanoic acid (PFDA)	8.51	ppt		1	1.7	5.3		
perfluoroundecanoic acid (PFUnA)	[1.2]	ppt		1	0.90	2.7		J
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.0	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	3.2	10		
C13-PFHxA (SURR)	50.651%							SR S
C13-PFDA (SURR)	86.722%							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.

