



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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July 13, 2018

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

Report #2018-09007
Collected – June 7, 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: 301918

Project Description: EPA 537 with GenX

Project Title: Template: 537PPT2GENX Printed: 07/20/2018 11:02

Sample: 1062738 22656 (06718-S01) Collected: 06/07/18 Analyzed: 06/27/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	10.3	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	6.76	ppt		1	0.62	2.0		
perfluoroheptanoic acid (PFHpA)	10	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.08]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	7.44	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[1.84]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	9.07	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[1.99]	ppt		1	1.2	3.8		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTeDA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	77.429%			1				S
C13-PFDA (SURR)	84.256%			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.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Environmental Chemists NLS Project: 301918
 Project Description: EPA 537 with GenX
 Project Title: Template: 537PPT2GENX

Printed: 07/20/2018 11:02

Sample: 1062739 22557 (06718-E01) Collected: 06/07/18 Analyzed: 06/27/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WVB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	10.1	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	7.45	ppt		1	0.62	2.0		
perfluoroheptanoic acid (PFHpA)	10.3	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.56]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	7.19	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[1.62]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	10.7	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[1.83]	ppt		1	1.2	3.8		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDDA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	81.417%			1				S
C13-PFDA (SURR)	86.91%			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.

CLIENT: Braunswick County Water PROJECT NAME: _____ REPORT NO: 15-09007
 ADDRESS: P.O. Box 249 CONTACT NAME: GLEN WALKER PO NO: _____
BOLIVIA, N.C. 28422 REPORT TO: SAME PHONE/FAX: _____
 COPY TO: _____ email: glen.walker@braunswickcounty.gov

Sampled By: _____ 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	
<u>06718-SD1</u>	<u>6/7/18</u>	<u>1030</u>	<u>26.8</u>	<u>RAW</u>	<u>C</u>	<u>(P)</u>		<u>22654</u>							<u>EPA 537 + GENX</u>
<u>06718-E01</u>	<u>6/7/18</u>	<u>1030</u>		<u>OW</u>	<u>C</u>	<u>(G)</u>		<u>22657</u>							
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									
					<u>C</u>	<u>P</u>									
					<u>G</u>	<u>G</u>									

Transfer Relinquished By: Thaddeus Hill Date/Time: 6/7/18 1030AM Received By: _____ Date/Time: _____
 1. _____
 2. _____

Temperature when Received: _____ Accepted: Rejected: _____ Resample Requested: _____
 Delivered By: Thaddeus Hill Received By: [Signature] Date: 6/7/18 Time: 1350
 Comments: _____ TURNAROUND: _____