envirochem (SM)
ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax
710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax
255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

info@environmentalchemists.com

December 20, 2018

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

Report #2018-19740
Collected – November 29, 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: 312882
Project Description: Drinking Water
Project Title: Template: 537PPTGENX Printed: 12/18/2018 17:32

Sample: 1095550 49898 Collected: 11/29/18 Analyzed: 12/12/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	6.41	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	2.71	ppt		1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	7.03	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.0]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.26	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	11.5	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[0.90]	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 (PFTrDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	43.355%			1				SR S
C13-PFDA (SURR)	79.339%			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: 1095549 49897 Collected: 11/29/18 Analyzed: 12/12/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	8.62	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	2.69	ppt		1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	9.66	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.08]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.01	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	11.5	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 (PFTrDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	44.465%			1				SR S
C13-PFDA (SURR)	81.663%			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.

Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405
OFFICE: 910-392-0223 FAX 910-392-4424
info@environmentalchemists.com

COLLECTION AND CHAIN OF CUSTODY

Client: Brunswick County Water	PROJECT NAME:	REPORT NO: 18-19740
ADDRESS: P.O. Box 249	CONTACT NAME: Glenn Walker	PO NO:
Bolivia, N.C. 28422	REPORT TO: Same	PHONE/FAX:
	COPY TO:	email: glenn.walker@brunswickcountync.gov

Sampled By: Thaddeus Hill

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

Sample Identification	Collection Date	Collection Time	Collection Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	ANALYSIS REQUESTED
112918-SO1	11-29-18	0945	12	RAW	C	P		49897								EPA 537 + GENX
					G	G										
112918-EO1	11-29-18	0945		DW	C	P		49898								
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.	Billy Benton	11-29-18		
2.				

Temperature when Received: _____ Accepted: _____ Rejected: _____ Resample Requested: _____

Delivered By: _____ Received By: _____ Date: 11-29-18 Time: 3207

Comments: _____ TURNAROUND: _____