



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

ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

December 1, 2018

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

Report #2018-17591
Collected – October 25, 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: 311677
 Project Description: PFCs by EPA 537 w/GenX
 Project Title: Template: 537PPTGENX Printed: 11/30/2018 17:36

Sample: 1092153 44437 Collected: 10/25/18 Analyzed: 11/21/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	1	6.6	21		
perfluorohexanoic acid (PFHxA)	17.7	ppt	1	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	4.18	ppt	1	1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	17.9	ppt	1	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.02]	ppt	1	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	9.48	ppt	1	1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.95]	ppt	1	1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	15.6	ppt	1	1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.51]	ppt	1	1	0.90	2.7		J
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt	1	1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	1	2.8	8.9		
C13-PFHxA (SURR)	50.956%			1				SR S
C13-PFDA (SURR)	75.803%			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: 1092154 44438 Collected: 10/25/18 Analyzed: 11/21/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	1	6.6	21		
perfluorohexanoic acid (PFHxA)	17.7	ppt	1	1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	3.92	ppt	1	1	0.73	2.3		
perfluorooctanoic acid (PFHpA)	16.2	ppt	1	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.87]	ppt	1	1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	9.18	ppt	1	1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.82]	ppt	1	1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	15.1	ppt	1	1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.41]	ppt	1	1	0.90	2.7		J
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt	1	1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	1	2.8	8.9		
C13-PFHxA (SURR)	55.941%			1				SR S
C13-PFDA (SURR)	82.77%			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

NC DENR: 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: _____
 ADDRESS: P.O. Box 249 CONTACT NAME: GLEN WALKER REPORT NO: 18-17591
BOLIVIA, N.C. 28432 REPORT TO: SAME PHONE/FAX: _____
 Copied By: _____ COPY TO: _____ email: glen.walker@brunswickcountync.gov

Sampled By: Bruce Beaton 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		Zn acetate
102518 - S01	10-25-18	0925	19.5°C	W	(G)	(P)		44437								EPA 537 + GENX
102518 - E01	10-25-18	0925	19.5°C	W	(G)	(P)		44438								
					(G)	(P)										/
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										

Temperature when Received: _____ Accepted: _____ Resample Requested: _____
 Delivered By: Bruce Beaton Received By: _____ Date: 10-25-18 Time: 2:53P
 Comments: _____ TURNAROUND: _____