



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

June 21, 2018

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

Report #2018-08193
Collected – May 24, 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: 300803
 Project Description: Brunswick -
 Project Title: EPA 537 w/GenX Template: 537PPT2GENX Printed: 06/19/2018 14:53

Sample: 1059177_052418-S01 Collected: 05/24/18 Analyzed: 06/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	20.1	ppt		1	0.83	2.6		J
perfluoro-2-propoxypropionic acid (GenX)	6.87	ppt		1	0.62	2.0		
perfluoroheptanoic acid (PFHpA)	17.4	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.81]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	10.3	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[2.63]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	13.1	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[2.73]	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 (PFTDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	106.605%			1				S
C13-PFHxA (SURR)	118.706%			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.

Sample: 1059178_052418-E01 Collected: 05/24/18 Analyzed: 06/13/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	[4.37]	ppt		1	3.6	11		J
perfluorohexanoic acid (PFHxA)	27.2	ppt		1	0.83	2.6		
perfluoro-2-propoxypropionic acid (GenX)	8.03	ppt		1	0.62	2.0		
perfluoroheptanoic acid (PFHpA)	22.1	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	4.86	ppt		1	1.3	4.1		
perfluorooctanoic acid (PFOA)	11.6	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[2.45]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	13.4	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[2.17]	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 (PFTDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	102.686%			1				S
C13-PFHxA (SURR)	110.618%			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 & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDEMR: 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: Braunswick County Water

PROJECT NAME:

REPORT NO:

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: BILLY BENTON

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	
052418-S01	5/24/18	1035 AM	85°C	RAW	C	(P)		805-24							EPA 537 + GENX
	5/24/18	1035 AM	85°C	DLW	C	(G)		205-28							
					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: BILLY BENTON

Date/Time

Received By:

Date/Time

Temperature when Received:

Accepted:

Rejected:

Resample Requested:

Delivered By: BILLY BENTON

Received By:

Date: 5-24-18 Time: 2:30P

Comments:

TURNAROUND: