



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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August 17, 2018

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

Report #2018-11209
Collected – July 12, 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: 303507

Project Description: Method 537

Project Title: Template: 537PPT2GENX Printed: 08/17/2018 08:50

Sample: 1067434_28291 (S01) Collected: 07/12/18 Analyzed: 07/23/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	[4.74]	ppt		1	3.6	11	J
perfluorohexanoic acid (PFHxA)	18.4	ppt		1	0.83	2.6	
perfluoro-2-propoxypropanoic acid (GenX)	17.3	ppt		1	0.62	2.0	
perfluorooctanoic acid (PFHpA)	17.3	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	7.02	ppt		1	1.3	4.1	
perfluorooctanoic acid (FOA)	10.1	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	[1.71]	ppt		1	1.3	4.1	J
perfluorodecanesulfonic acid (PFOS)	16.7	ppt		1	1.5	4.7	
perfluorododecanoic acid (PFDA)	[1.92]	ppt		1	1.2	3.8	J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorotetradecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorodecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	88.394%			1			S
C13-PFDA (SURR)	96.328%			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: 1067435_28292 (E01) Collected: 07/12/18 Analyzed: 07/23/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	[4.44]	ppt		1	3.6	11	J
perfluorohexanoic acid (PFHxA)	18.2	ppt		1	0.83	2.6	
perfluoro-2-propoxypropanoic acid (GenX)	18.3	ppt		1	0.62	2.0	
perfluorooctanoic acid (PFHpA)	16.6	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	6.94	ppt		1	1.3	4.1	
perfluorooctanoic acid (FOA)	9.92	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	[1.74]	ppt		1	1.3	4.1	J
perfluorodecanesulfonic acid (PFOS)	16.9	ppt		1	1.5	4.7	
perfluorododecanoic acid (PFDA)	[1.88]	ppt		1	1.2	3.8	J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorotetradecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorodecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	87.393%			1			S
C13-PFDA (SURR)	96.161%			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.

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County Water	PROJECT NAME:	REPORT NO: 18-11209
ADDRESS: P.O. Box 249	CONTACT NAME: Glenn Walker	PO NO:
BOLIVIA, N.C. 28422	REPORT TO: SAME	PHONE/FAX:
Sampled By: Billy Benton	COPY TO:	email: glenn.walker@brunswickcounty.gov

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	THO		Zn acetate
071218-S01	7/12/18	1030 AM	28.9	RAW	(G)	(P)		28291								EPA 537 + GENX
071218-E01	7/12/18	1030 AM	28.9	DW	(G)	(P)		28292								
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										

Transfer	Relinquished By: Billy Benton	Date/Time: 7/12/18	Received By:	Date/Time:
Temperature when Received:	Accepted:	Rejected:	Resample Requested:	
Delivered By:	Received By:	Date: 7/12/18	Time: 1424	
Comments:	TURNAROUND:			