

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call the City of Fountain Water Department at (719) 322-2072

This report may not be reproduced, except in full, without written approval from EEA.



STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



Laboratory Report

Client: City of Fountain Report: 486666

Attn: Jasson Palmer Priority: Standard Written

116 South Main Status: Final

Fountain, CO 80817 PWS ID: CO0121275

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4634069	Well 3 E1	537.1	05/21/20 12:00	Client	05/22/20 08:45
4634070	Well 3 E2	537.1	05/21/20 12:02	Client	05/22/20 08:45
4634071	Well 3 E4	537.1	05/21/20 12:04	Client	05/22/20 08:45
4634072	Well 3 W4	537.1	05/21/20 12:06	Client	05/22/20 08:45
4634073	Well 3 Raw	537.1	05/21/20 12:08	Client	05/22/20 08:45
4634074	Aga S1	537.1	05/21/20 12:15	Client	05/22/20 08:45
4634075	Aga S2	537.1	05/21/20 12:17	Client	05/22/20 08:45
4634076	Aga S3	537.1	05/21/20 12:19	Client	05/22/20 08:45
4634077	Aga N4	537.1	05/21/20 12:21	Client	05/22/20 08:45
4634078	Aga Raw	537.1	05/21/20 12:23	Client	05/22/20 08:45

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Blackburn ASM

06/05/2020

Date

Authorized Signature

Client Name:

City of Fountain

Report #: 486666

Title

Sampling Point: Well 3 E1 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:46	4634069			

Sampling Point: Well 3 E2 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 22:59	4634070			

Sampling Point: Well 3 E4 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:12	4634071			

Sampling Point: Well 3 W4 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	3.5	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	2.9	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	7.6	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	2.2	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	7.0	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:25	4634072			

Sampling Point: Well 3 Raw PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	13	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	24	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	18	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	6.0	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	37	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/04/20 23:51	4634073			

Sampling Point: Aga S1 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	9.4	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	7.9	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	14	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	3.6	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	13	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:04	4634074			

Sampling Point: Aga S2 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 00:18	4634075			

Sampling Point: Aga S3 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:18	4634076			

Sampling Point: Aga N4 PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 05:57	4634077			

Sampling Point: Aga Raw PWS ID: CO0121275

	EEA Methods											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	22	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	28	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	29	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1		2.0	7.3	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	39	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	06/04/20 07:58	06/05/20 06:10	4634078			

[†] EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical



Order # <u>389230</u> Batch # <u>486666</u>

www.EurofinsUS.com/Eaton Shaded area for EEA use only				CHAIN OF CUSTODY RECORD						Page		of	1	_
REPORT TO:	TOT ELFT US	o omy		SAMPLER (Signature)			PWS ID#	STATE (sample origin)	PROJECT NAME	P	O#			
Justin Moore (719)322-207	3			Son Pen		10	0121275	Colorado	westy					ш
(719)322-207 BILL TO: 1/6 S. MWn S Formaln Co		7	1	COMPLIANCE MONITORING	No Y	27	ATION SERVED	SOURCE WATER Vell 7 ATA	PPEC			CONTAINERS	CODE	TURNAROUND TIME
LAB Number COLLECTION			SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED			MATRIX	RNAF		
T	DATE	TIME	AM PM			//a				YES	NO	# OF	Σ	-
1 4634 669	5-21-20	12,000	×	Well3 E1		PFC					X	2	Du	SU
2 070	5-21-20	1202	X	Well3 E2		PPC					K	2	DU	Sw
3 07	5-21-20	1204	k	Well 3 EY		PFC					K	2	1)~	8~
4 072	5-21-20	1206	×	ve43 W4		PFL					×	2	DW	50
5 073	5-21-20	1208	Y	Vell3 RAV		PFC					X	2	D	SW
6 074	5-21-20	1715	×	A(5 31		PFC					X	2	DW	50
7 675	5-21-20	1217	×	A55 82		PFC					×	2	DW	50
8 006	5-21-20	1219	V	Age 53		PI-C					X	2	DV	SV
9 07	5-21-20	1221	×	AGS NY		PPC					X	2	DV	SU
10 078	5-21-20	1223	×	Aga RAW		pre					x	2	DW	50
11						1								
12									()					
13														
14		-												
RELINQUISHED BY:(Signature	e)	5212	1230		DATE	TIME	LAB RESERV	ES THE RIGHT TO RETURN UNL	USED PORTIONS OF NON-A	AQUEOUS S	AMPLES TO	O CLIENT		
RELINQUISHED BY:(Signature	e)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME								
RELINQUISHED BY:(Signature	e)	DATE	AM PM TIME	RECEIVED FOR LABORATORY BY:	DATE 2-200	AM PM TIME OS 45	CONDITIONS UPON R	-1	3 2 °C Upon I	Receipt _		N/A		
MATRIX CODES.	:	TURN-ARO		E (TAT) - SURCHARGES		AWI FWI								-
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER		ng days) 50%	IV* = Immediate Verbal: (3 working days) IW* =Immediate Written; (3 working days) SP* = Weekend, Holiday STAT* = Less than 48 hours				Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.							
F1.2-2.5-1-1-1-1		1 12350 5411	· substitu	is its armana for an county	4				06-LO-F0435 Issue 7	7.0 Effe	ctive Date	2018	-10-11	