

ANALYTICAL REPORT

PREPARED FOR

Attn: Jesse LeBoeuf
Cobb County Water System
680 South Cobb Drive
Marietta, Georgia 30060

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JOB DESCRIPTION

UCMR5 - GA0670003 - SE3 - Cobb County

JOB NUMBER

810-92665-1

Eurofins Eaton Analytical South Bend

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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Authorized for release by
Pamela Brown, Project Manager
Pamela.Brown@et.eurofinsus.com
(574)233-4777

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Definitions/Glossary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cobb County Water System
Project: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Job ID: 810-92665-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-92665-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/6/2024 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1

PWSID Number: GA0670003

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.0032		0.0030	ug/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0042		0.0030	ug/L	1		533	Total/NA

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1FRB

PWSID Number: GA0670003

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1

Date Collected: 02/05/24 10:10

Matrix: Drinking Water

Date Received: 02/06/24 09:00

PWSID Number: GA0670003

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorohexanoic acid (PFHxA)	0.0032		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorobutanesulfonic acid (PFBS)	0.0042		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		02/07/24 07:56	02/08/24 01:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		02/07/24 07:56	02/08/24 01:01	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		02/07/24 07:56	02/08/24 01:01	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		02/07/24 07:56	02/08/24 01:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		02/07/24 07:56	02/08/24 01:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		02/07/24 07:56	02/08/24 01:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030	ug/L		02/07/24 07:56	02/08/24 01:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	81		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C4 PFBA	92		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C3 PFBS	97		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C5 PFPeA	111		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C5 PFHxA	89		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C4 PFHpA	91		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C8 PFOA	88		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C9 PFNA	90		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C6 PFDA	83		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C7 PFUnA	82		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C2 PFDoA	81		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C8 PFOS	92		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C3 PFHxS	92		50 - 200	02/07/24 07:56	02/08/24 01:01	1

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Client Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1

Date Collected: 02/05/24 10:10

Matrix: Drinking Water

Date Received: 02/06/24 09:00

PWSID Number: GA0670003

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	142		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C2-6:2-FTS	113		50 - 200	02/07/24 07:56	02/08/24 01:01	1
13C2-8:2-FTS	101		50 - 200	02/07/24 07:56	02/08/24 01:01	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0050		0.0050	ug/L		02/07/24 08:22	02/08/24 09:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060	ug/L		02/07/24 08:22	02/08/24 09:22	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080	ug/L		02/07/24 08:22	02/08/24 09:22	1
Perfluorotridecanoic acid (PFTrDA)	<0.0070		0.0070	ug/L		02/07/24 08:22	02/08/24 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130	02/07/24 08:22	02/08/24 09:22	1
13C2 PFHxA	79		70 - 130	02/07/24 08:22	02/08/24 09:22	1
13C2 PFDA	88		70 - 130	02/07/24 08:22	02/08/24 09:22	1
13C3 HFPO-DA	81		70 - 130	02/07/24 08:22	02/08/24 09:22	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		02/12/24 12:35	02/13/24 12:37	1

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1FRB

Date Collected: 02/05/24 10:10

Matrix: Drinking Water

Date Received: 02/06/24 09:00

PWSID Number: GA0670003

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 14:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 14:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		02/13/24 08:07	02/14/24 14:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 14:58	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Client Sample ID: 11145/CC/SW/302/EP

Lab Sample ID: 810-92665-1FRB

Date Collected: 02/05/24 10:10

Matrix: Drinking Water

Date Received: 02/06/24 09:00

PWSID Number: GA0670003

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		02/13/24 08:07	02/14/24 14:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		02/13/24 08:07	02/14/24 14:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		02/13/24 08:07	02/14/24 14:58	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C4 PFBA	95		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C3 PFBS	96		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C5 PFPeA	107		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C5 PFHxA	94		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C4 PFHpA	95		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C8 PFOA	94		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C9 PFNA	91		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C6 PFDA	85		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C7 PFUnA	84		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C2 PFDoA	82		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C8 PFOS	92		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C3 PFHxS	98		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C2-4:2-FTS	93		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C2-6:2-FTS	90		50 - 200			02/13/24 08:07	02/14/24 14:58	1
13C2-8:2-FTS	86		50 - 200			02/13/24 08:07	02/14/24 14:58	1

Surrogate Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)
Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	HFPODA				
		(70-130)	(70-130)	(70-130)	(70-130)				
810-92665-1	11145/CC/SW/302/EP	98	79	88	81				
LLCS 810-87869/8-A	Lab Control Sample	98	91	95	92				
MBL 810-87869/7-A	Method Blank	92	100	101	99				
Surrogate Legend									
d5NEFOS = d5-NEtFOSAA									
PFHxA = 13C2 PFHxA									
PFDA = 13C2 PFDA									
HFPODA = 13C3 HFPO-DA									

Isotope Dilution Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	PFBA (50-200)	C3PFBS (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)
810-92665-1	11145/CC/SW/302/EP	81	92	97	111	89	91	88	90
810-92665-1FRB	FRB	89	95	96	107	94	95	94	91
LLCS 810-87868/2-A	Lab Control Sample	89	97	94	97	92	96	96	97
LLCS 810-88405/2-A	Lab Control Sample	94	101	105	112	100	101	100	98
MBL 810-87868/1-A	Method Blank	88	95	95	96	94	95	96	97
MBL 810-88405/1-A	Method Blank	95	96	96	106	95	97	96	94

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFDaA (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-92665-1	11145/CC/SW/302/EP	83	82	81	92	92	142	113	101
810-92665-1FRB	FRB	85	84	82	92	98	93	90	86
LLCS 810-87868/2-A	Lab Control Sample	88	84	83	95	95	96	110	101
LLCS 810-88405/2-A	Lab Control Sample	90	87	87	99	107	102	106	96
MBL 810-87868/1-A	Method Blank	86	83	78	91	95	102	115	111
MBL 810-88405/1-A	Method Blank	88	85	82	94	100	93	92	88

Surrogate Legend

HFPODA = 13C3 HFPO-DA
PFBA = 13C4 PFBA
C3PFBS = 13C3 PFBS
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
C8PFOS = 13C8 PFOS
C3PFHS = 13C3 PFHxS
42FTS = 13C2-4:2-FTS
62FTS = 13C2-6:2-FTS
82FTS = 13C2-8:2-FTS

QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-87868/1-A

Matrix: Drinking Water

Analysis Batch: 87980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87868

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		02/07/24 07:56	02/07/24 20:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		02/07/24 07:56	02/07/24 20:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		02/07/24 07:56	02/07/24 20:43	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		02/07/24 07:56	02/07/24 20:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		02/07/24 07:56	02/07/24 20:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		02/07/24 07:56	02/07/24 20:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		02/07/24 07:56	02/07/24 20:43	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C4 PFBA	95		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C3 PFBS	95		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C5 PFPeA	96		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C5 PFHxA	94		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C4 PFHpA	95		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C8 PFOA	96		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C9 PFNA	97		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C6 PFDA	86		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C7 PFUnA	83		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C2 PFDoA	78		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C8 PFOS	91		50 - 200	02/07/24 07:56	02/07/24 20:43	1

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QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-87868/1-A

Matrix: Drinking Water

Analysis Batch: 87980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87868

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	95		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C2-4:2-FTS	102		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C2-6:2-FTS	115		50 - 200	02/07/24 07:56	02/07/24 20:43	1
13C2-8:2-FTS	111		50 - 200	02/07/24 07:56	02/07/24 20:43	1

Lab Sample ID: LLCS 810-87868/2-A

Matrix: Drinking Water

Analysis Batch: 87980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87868

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0025		ug/L		125	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0025		ug/L		127	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0025		ug/L		127	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0025		ug/L		127	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0023		ug/L		114	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0026		ug/L		131	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0026		ug/L		131	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0025		ug/L		127	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0024		ug/L		122	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0024		ug/L		125	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0021		ug/L		121	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0021		ug/L		117	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0023		ug/L		118	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0023		ug/L		122	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0023		ug/L		120	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0025		ug/L		124	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0020		ug/L		109	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0020		ug/L		108	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0025		ug/L		136	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0026		ug/L		136	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0025		ug/L		131	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0025		ug/L		126	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0024		ug/L		120	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0025		ug/L		124	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0021		ug/L		120	50 - 150

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QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	89		50 - 200
13C4 PFBA	97		50 - 200
13C3 PFBS	94		50 - 200
13C5 PFPeA	97		50 - 200
13C5 PFHxA	92		50 - 200
13C4 PFHpA	96		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	97		50 - 200
13C6 PFDA	88		50 - 200
13C7 PFUnA	84		50 - 200
13C2 PFDoA	83		50 - 200
13C8 PFOS	95		50 - 200
13C3 PFHxS	95		50 - 200
13C2-4:2-FTS	96		50 - 200
13C2-6:2-FTS	110		50 - 200
13C2-8:2-FTS	101		50 - 200

Lab Sample ID: MBL 810-88405/1-A

Matrix: Drinking Water

Analysis Batch: 88536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88405

Analyte	MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		02/13/24 08:07	02/14/24 08:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 08:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0005		0.0020	ug/L		02/13/24 08:07	02/14/24 08:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0005		0.0050	ug/L		02/13/24 08:07	02/14/24 08:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		02/13/24 08:07	02/14/24 08:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		02/13/24 08:07	02/14/24 08:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		02/13/24 08:07	02/14/24 08:28	1

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QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-88405/1-A

Matrix: Drinking Water

Analysis Batch: 88536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88405

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		02/13/24 08:07	02/14/24 08:28	1
Isotope Dilution	%Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C4 PFBA	96		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C3 PFBS	96		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C5 PFPeA	106		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C5 PFHxA	95		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C4 PFHpA	97		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C8 PFOA	96		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C9 PFNA	94		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C6 PFDA	88		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C7 PFUnA	85		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C2 PFDoA	82		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C8 PFOS	94		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C3 PFHxS	100		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C2-4:2-FTS	93		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C2-6:2-FTS	92		50 - 200			02/13/24 08:07	02/14/24 08:28	1
13C2-8:2-FTS	88		50 - 200			02/13/24 08:07	02/14/24 08:28	1

Lab Sample ID: LLCS 810-88405/2-A

Matrix: Drinking Water

Analysis Batch: 88536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88405

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0021		ug/L		106	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0021		ug/L		107	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0019		ug/L		105	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		98	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0019		ug/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0020		ug/L		108	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LLCS 810-88405/2-A

Matrix: Drinking Water

Analysis Batch: 88536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88405

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0019		ug/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0020		ug/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0018		ug/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0019		ug/L		99	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0022		ug/L		115	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0022		ug/L		114	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0022		ug/L		114	50 - 150
Nonafluoro-3,6-dioxahептаnoic acid (NFDHA)	0.00200	0.0023		ug/L		113	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0021		ug/L		107	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0017		ug/L		94	50 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C3 HFPO-DA	94		50 - 200
13C4 PFBA	101		50 - 200
13C3 PFBS	105		50 - 200
13C5 PFPeA	112		50 - 200
13C5 PFHxA	100		50 - 200
13C4 PFHpA	101		50 - 200
13C8 PFOA	100		50 - 200
13C9 PFNA	98		50 - 200
13C6 PFDA	90		50 - 200
13C7 PFUnA	87		50 - 200
13C2 PFDoA	87		50 - 200
13C8 PFOS	99		50 - 200
13C3 PFHxS	107		50 - 200
13C2-4:2-FTS	102		50 - 200
13C2-6:2-FTS	106		50 - 200
13C2-8:2-FTS	96		50 - 200

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-87869/7-A

Matrix: Drinking Water

Analysis Batch: 87948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87869

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0005		0.0050	ug/L		02/07/24 08:22	02/08/24 06:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		02/07/24 08:22	02/08/24 06:12	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method: 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 810-87869/7-A

Matrix: Drinking Water

Analysis Batch: 87948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87869

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		02/07/24 08:22	02/08/24 06:12	1
Perfluorotridecanoic acid (PFTDA)	<0.0006		0.0070	ug/L		02/07/24 08:22	02/08/24 06:12	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	92		70 - 130	02/07/24 08:22	02/08/24 06:12	1
13C2 PFHxA	100		70 - 130	02/07/24 08:22	02/08/24 06:12	1
13C2 PFDA	101		70 - 130	02/07/24 08:22	02/08/24 06:12	1
13C3 HFPO-DA	99		70 - 130	02/07/24 08:22	02/08/24 06:12	1

Lab Sample ID: LLCS 810-87869/8-A

Matrix: Drinking Water

Analysis Batch: 87948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87869

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	0.00200	0.0017		ug/L		86	50 - 150
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	0.00200	0.0015		ug/L		77	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0015		ug/L		77	50 - 150
Perfluorotridecanoic acid (PFTDA)	0.00200	0.0016		ug/L		82	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	98		70 - 130
13C2 PFHxA	91		70 - 130
13C2 PFDA	95		70 - 130
13C3 HFPO-DA	92		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MBL 810-88372/1-A

Matrix: Drinking Water

Analysis Batch: 88479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88372

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<1.80		9.00	ug/L		02/12/24 12:35	02/13/24 12:24	1

Lab Sample ID: LLCS 810-88372/2-A

Matrix: Drinking Water

Analysis Batch: 88479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88372

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	9.50		ug/L		106	50 - 150

Eurofins Eaton Analytical South Bend

QC Association Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

LCMS

Prep Batch: 87868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	533	
MBL 810-87868/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-87868/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Prep Batch: 87869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	537.1 DW	
MBL 810-87869/7-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-87869/8-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 87948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	537.1 UCMR5	87869
MBL 810-87869/7-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	87869
LLCS 810-87869/8-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	87869

Analysis Batch: 87980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	533	87868
MBL 810-87868/1-A	Method Blank	Total/NA	Drinking Water	533	87868
LLCS 810-87868/2-A	Lab Control Sample	Total/NA	Drinking Water	533	87868

Prep Batch: 88405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-88405/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-88405/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 88536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1FRB	FRB	Total/NA	Drinking Water	533	88405
MBL 810-88405/1-A	Method Blank	Total/NA	Drinking Water	533	88405
LLCS 810-88405/2-A	Lab Control Sample	Total/NA	Drinking Water	533	88405

Metals

Prep Batch: 88372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-88372/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-88372/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 88479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-92665-1	11145/CC/SW/302/EP	Total/NA	Drinking Water	200.7 UCMR5	88372
MBL 810-88372/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	88372
LLCS 810-88372/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	88372

Lab Chronicle

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Client Sample ID: 11145/CC/SW/302/EP
Date Collected: 02/05/24 10:10
Date Received: 02/06/24 09:00

Lab Sample ID: 810-92665-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			87868	KB	EA SB	02/07/24 07:56
Total/NA	Analysis	533		1	87980	KB	EA SB	02/08/24 01:01
Total/NA	Prep	537.1 DW			87869	KM	EA SB	02/07/24 08:22
Total/NA	Analysis	537.1 UCMR5		1	87948	BS	EA SB	02/08/24 09:22
Total/NA	Prep	200.7 UCMR5			88372	AC	EA SB	02/12/24 12:35
Total/NA	Analysis	200.7 UCMR5		1	88479	AC	EA SB	02/13/24 12:37

Laboratory References:
EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Georgia (DW)	State	929	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
200.7 UCMR5	200.7 UCMR5	Drinking Water	Lithium

Method Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Cobb County Water System
Project/Site: UCMR5 - GA0670003 - SE3 - Cobb County

Job ID: 810-92665-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-92665-1	11145/CC/SW/302/EP	Drinking Water	02/05/24 10:10	02/06/24 09:00	GA0670003
810-92665-1FRB	11145/CC/SW/302/EP	Drinking Water	02/05/24 10:10	02/06/24 09:00	GA0670003

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South Bend, IN

110 S Hill Street

South Bend, IN 46617

Phone (574) 233-4777; Phone (574) 233-8207

"UCMR 5 Sampling Form for Single Collection Site"

(Separate form is needed for each collection site)



Environment Testing
America

Company Contact:

Jesse LeBoeuf

Company Name:

Cobb County Water System

Company Address:

680 South Cobb Dr.

Marietta, GA 30060

Phone:

(770) 419 6361

Email:

Jesse.LeBoeuf@CobbCounty.org

Purchase Order:

Lab PM(name):

Pamela Brown

PM Email:

EEA Project:

81005692

PWSID:

GA 0670003

FacID:

SPID:

FacName:

SPName:

Sampling

Event:

UCMR5 3rd sample
SE3

Water System Name:

Collection Location:

3610 Mars Hill Rd. Acworth

Scheduled Collection

Date:

2-5-2021

GA, 30101

Sampler Name (Print):

Jesse LeBoeuf

Date/Time

Sampled:

2-5-2021 10:10a

Client Storage temp, if > 2 days from collection:

*11145/cc/SW/302/EP + KW
(per bottle) 2/6/24

AREA BELOW FOR LAB USE ONLY

For UCMR 5 specific criteria see: REC-WI55108 Guidance Document for UCMR 5 Sample Receiving Requirements and QA-SOP-SOP48964 UCMR 5 QAPP

Method	Type	# Bot	IR Gun#: 25	pH* value	Ice Wet / Blue		Cl (P/A) **	Sample Comments	✓if sample is invalid
			Temp °C (10°C within 2 days of collection, 6°C for > 2 days) Initial / Corrected		✓if receipt pH acceptable	✓if pH needs adjustment			
200.7	FS	1			✓				
200.7	FS	2							
533	FS	1	1.6 / 1.8		✓		A		
533	FS	2	1.6 / 1.8		✓		A		
533	FS	3	1.6 / 1.8		✓		A		
533	FRB	1	1.2 / 1.4		✓		A		
537.1	FS	1	1.4 / 1.6		✓		A		
537.1	FS	2	1.4 / 1.6		✓		A		
537.1	FS	3	1.4 / 1.6		✓		A		
537.1	FRB	1	1.2 / 1.4		✓		A		



810-92665 Chain of Custody

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 pH may be adjusted upon receipt.

** A = Absent if Free Cl <0.1 mg/L; P = Chlorine is present

Received By

Kameron Williams

Date/Time

2/6/24 0900

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Login Sample Receipt Checklist

Client: Cobb County Water System

Job Number: 810-92665-1

Login Number: 92665

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	