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# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Stevens  
City of Piqua  
9801 N State Route 66  
Piqua, Ohio 45356

Generated 11/13/2025 12:59:07 AM

## JOB DESCRIPTION

UCMR5 - OH5501211 - SE4 - TP - City of Piqua, OH

## JOB NUMBER

810-170665-1

# Eurofins Eaton Analytical South Bend

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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# Definitions/Glossary

Client: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

## 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: City of Piqua  
Project: UCMR5 - OH5501211 - SE4 - TP - City of Piqua, OH

Job ID: 810-170665-1

**Job ID: 810-170665-1**

**Eurofins Eaton Analytical South Bend**

## Job Narrative 810-170665-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The sample was received on 11/5/2025 9:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

### PFAS

Method 533\_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 5562258/EP002/Treatment Plant (810-170665-1)

Method 533\_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 5562258/EP002/Treatment Plant (810-170665-1[FRB])

Method 533\_UCMR5: The pH of the following sample was adjusted to pH 7.5 in the laboratory: 5562258/EP002/Treatment Plant (810-170665-1[FRB])

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.

# Detection Summary

Client: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

**Client Sample ID: 5562258/EP002/Treatment Plant**  
**PWSID Number: OH5501211**

**Lab Sample ID: 810-170665-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.0031		0.0030	ug/L	1		533	Total/NA

**Client Sample ID: 5562258/EP002/Treatment Plant**  
**PWSID Number: OH5501211**

**Lab Sample ID: 810-170665-1FRB**

No Detections.



# Client Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

**Client Sample ID: 5562258/EP002/Treatment Plant**

**Lab Sample ID: 810-170665-1**

**Date Collected: 11/04/25 14:00**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:45**

**PWSID Number: OH5501211**

**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		11/06/25 08:41	11/07/25 08:24	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.0031</b>		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		11/06/25 08:41	11/07/25 08:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		11/06/25 08:41	11/07/25 08:24	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		11/06/25 08:41	11/07/25 08:24	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		11/06/25 08:41	11/07/25 08:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		11/06/25 08:41	11/07/25 08:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		11/06/25 08:41	11/07/25 08:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0030		0.0030	ug/L		11/06/25 08:41	11/07/25 08:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C4 PFBA	96		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C3 PFBS	102		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C5 PFPeA	97		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C5 PFHxA	94		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C4 PFHpA	91		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C8 PFOA	94		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C9 PFNA	88		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C6 PFDA	85		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C7 PFUnA	83		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C2 PFDoA	85		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C8 PFOS	96		50 - 200	11/06/25 08:41	11/07/25 08:24	1

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# Client Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

**Client Sample ID: 5562258/EP002/Treatment Plant**

**Lab Sample ID: 810-170665-1**

Date Collected: 11/04/25 14:00

Matrix: Drinking Water

Date Received: 11/05/25 09:45

PWSID Number: OH5501211

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	95		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C2-4:2-FTS	109		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C2-6:2-FTS	102		50 - 200	11/06/25 08:41	11/07/25 08:24	1
13C2-8:2-FTS	99		50 - 200	11/06/25 08:41	11/07/25 08:24	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		11/07/25 06:37	11/08/25 10:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0060		0.0060	ug/L		11/07/25 06:37	11/08/25 10:16	1
Perfluorotetradecanoic acid (PFTA)	<0.0080		0.0080	ug/L		11/07/25 06:37	11/08/25 10:16	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0070		0.0070	ug/L		11/07/25 06:37	11/08/25 10:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NETFOSAA	86		70 - 130	11/07/25 06:37	11/08/25 10:16	1
13C2 PFHxA	98		70 - 130	11/07/25 06:37	11/08/25 10:16	1
13C2 PFDA	96		70 - 130	11/07/25 06:37	11/08/25 10:16	1
13C3 HFPO-DA	97		70 - 130	11/07/25 06:37	11/08/25 10:16	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		11/06/25 13:33	11/07/25 15:55	1

**Client Sample ID: 5562258/EP002/Treatment Plant**

**Lab Sample ID: 810-170665-1FRB**

Date Collected: 11/04/25 14:00

Matrix: Drinking Water

Date Received: 11/05/25 09:45

PWSID Number: OH5501211

**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		11/11/25 08:47	11/12/25 08:30	1
Perfluoropentanoic acid (PFPeA)	<0.0008		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorohexanoic acid (PFHxA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoroheptanoic acid (PFHpA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorooctanoic acid (PFOA)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorononanoic acid (PFNA)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorodecanoic acid (PFDA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoroundecanoic acid (PFUnA)	<0.0007		0.0020	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorododecanoic acid (PFDoA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0006		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0006		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 08:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0007		0.0050	ug/L		11/11/25 08:47	11/12/25 08:30	1

Eurofins Eaton Analytical South Bend

# Client Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

**Client Sample ID: 5562258/EP002/Treatment Plant**

**Lab Sample ID: 810-170665-1FRB**

**Date Collected: 11/04/25 14:00**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:45**

**PWSID Number: OH5501211**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.001		0.0020	ug/L		11/11/25 08:47	11/12/25 08:30	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0008		0.0050	ug/L		11/11/25 08:47	11/12/25 08:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		11/11/25 08:47	11/12/25 08:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		11/11/25 08:47	11/12/25 08:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0008		0.0040	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 08:30	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	84		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C4 PFBA	88		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C3 PFBS	87		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C5 PFPeA	91		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C5 PFHxA	84		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C4 PFHpA	87		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C8 PFOA	90		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C9 PFNA	87		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C6 PFDA	86		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C7 PFUnA	82		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C2 PFDoA	85		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C8 PFOS	87		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C3 PFHxS	87		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C2-4:2-FTS	83		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C2-6:2-FTS	86		50 - 200			11/11/25 08:47	11/12/25 08:30	1
13C2-8:2-FTS	83		50 - 200			11/11/25 08:47	11/12/25 08:30	1

# Surrogate Summary

Client: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

## 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)
810-170665-1	5562258/EP002/Treatment Plant	86	98	96	97
LLCS 810-168096/2-A	Lab Control Sample	94	95	99	90
MBL 810-168096/1-A	Method Blank	93	93	100	87

### Surrogate Legend

d5NEFOS = d5-NEtFOSAA  
PFHxA = 13C2 PFHxA  
PFDA = 13C2 PFDA  
HFPODA = 13C3 HFPO-DA

# Isotope Dilution Summary

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

## 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)
810-170665-1	5562258/EP002/Treatment Plant	91	96	102	97	94	91	94	88
810-170665-1FRB	FRB	84	88	87	91	84	87	90	87
LLCS 810-167867/2-A	Lab Control Sample	95	98	102	96	96	98	100	99
LLCS 810-168608/2-A	Lab Control Sample	86	90	87	90	87	87	89	88
MBL 810-167867/1-A	Method Blank	91	101	101	99	91	91	97	99
MBL 810-168608/1-A	Method Blank	81	86	85	89	82	82	86	85

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFD <sub>o</sub> A (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-170665-1	5562258/EP002/Treatment Plant	85	83	85	96	95	109	102	99
810-170665-1FRB	FRB	86	82	85	87	87	83	86	83
LLCS 810-167867/2-A	Lab Control Sample	100	100	96	97	98	95	99	97
LLCS 810-168608/2-A	Lab Control Sample	87	85	85	90	87	82	85	84
MBL 810-167867/1-A	Method Blank	92	89	90	98	96	95	99	97
MBL 810-168608/1-A	Method Blank	85	84	83	86	85	79	85	84

#### 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
- PFD<sub>o</sub>A = 13C2 PFD<sub>o</sub>A
- 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: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

Lab Sample ID: MBL 810-167867/1-A

Matrix: Drinking Water

Analysis Batch: 167972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167867

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoropentanoic acid (PFPeA)	<0.0008		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorohexanoic acid (PFHxA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoroheptanoic acid (PFHpA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorooctanoic acid (PFOA)	<0.0007		0.0040	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorononanoic acid (PFNA)	<0.0007		0.0040	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorodecanoic acid (PFDA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoroundecanoic acid (PFUnA)	<0.0007		0.0020	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorododecanoic acid (PFDoA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0006		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0006		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.0007		0.0040	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0007		0.0040	ug/L		11/06/25 08:41	11/07/25 02:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0007		0.0050	ug/L		11/06/25 08:41	11/07/25 02:41	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.001		0.0020	ug/L		11/06/25 08:41	11/07/25 02:41	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0008		0.0050	ug/L		11/06/25 08:41	11/07/25 02:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		11/06/25 08:41	11/07/25 02:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		11/06/25 08:41	11/07/25 02:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0008		0.0040	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0007		0.0030	ug/L		11/06/25 08:41	11/07/25 02:41	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C4 PFBA	101		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C3 PFBS	101		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C5 PFPeA	99		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C5 PFHxA	91		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C4 PFHpA	91		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C8 PFOA	97		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C9 PFNA	99		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C6 PFDA	92		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C7 PFUnA	89		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C2 PFDoA	90		50 - 200	11/06/25 08:41	11/07/25 02:41	1

Eurofins Eaton Analytical South Bend

# QC Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

**Lab Sample ID: MBL 810-167867/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 167972**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 167867**

<i>Isotope Dilution</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
13C8 PFOS	98		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C3 PFHxS	96		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C2-4:2-FTS	95		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C2-6:2-FTS	99		50 - 200	11/06/25 08:41	11/07/25 02:41	1
13C2-8:2-FTS	97		50 - 200	11/06/25 08:41	11/07/25 02:41	1

**Lab Sample ID: LLCS 810-167867/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 167972**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 167867**

<i>Analyte</i>	<i>Spike</i>	<i>LLCS</i>	<i>LLCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>
Perfluorobutanoic acid (PFBA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0019		ug/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0019		ug/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		100	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0016		ug/L		89	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0017		ug/L		91	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0017		ug/L		90	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0017		ug/L		91	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0017		ug/L		89	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		97	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	0.0017		ug/L		92	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0019		ug/L		99	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0019		ug/L		98	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0018		ug/L		95	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0018		ug/L		90	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150

# QC Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

**Lab Sample ID: LLCS 810-167867/2-A**

**Matrix: Drinking Water**

**Analysis Batch: 167972**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 167867**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0016		ug/L		90	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	95		50 - 200
13C4 PFBA	98		50 - 200
13C3 PFBS	102		50 - 200
13C5 PFPeA	96		50 - 200
13C5 PFHxA	96		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	100		50 - 200
13C9 PFNA	99		50 - 200
13C6 PFDA	100		50 - 200
13C7 PFUnA	100		50 - 200
13C2 PFDoA	96		50 - 200
13C8 PFOS	97		50 - 200
13C3 PFHxS	98		50 - 200
13C2-4:2-FTS	95		50 - 200
13C2-6:2-FTS	99		50 - 200
13C2-8:2-FTS	97		50 - 200

**Lab Sample ID: MBL 810-168608/1-A**

**Matrix: Drinking Water**

**Analysis Batch: 168734**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 168608**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoropentanoic acid (PFPeA)	<0.0008		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorohexanoic acid (PFHxA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoroheptanoic acid (PFHpA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorooctanoic acid (PFOA)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorononanoic acid (PFNA)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorodecanoic acid (PFDA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoroundecanoic acid (PFUnA)	<0.0007		0.0020	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorododecanoic acid (PFDoA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0006		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0006		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0007		0.0040	ug/L		11/11/25 08:47	11/12/25 02:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0007		0.0050	ug/L		11/11/25 08:47	11/12/25 02:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.001		0.0020	ug/L		11/11/25 08:47	11/12/25 02:50	1
11-Chloroeicosafluoro-3-oxadecan e-1-sulfonic acid	<0.0008		0.0050	ug/L		11/11/25 08:47	11/12/25 02:50	1

Eurofins Eaton Analytical South Bend

# QC Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

**Lab Sample ID: MBL 810-168608/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168734**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 168608**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		11/11/25 08:47	11/12/25 02:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		11/11/25 08:47	11/12/25 02:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0008		0.0040	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0007		0.0030	ug/L		11/11/25 08:47	11/12/25 02:50	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	81		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C4 PFBA	86		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C3 PFBS	85		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C5 PFPeA	89		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C5 PFHxA	82		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C4 PFHpA	82		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C8 PFOA	86		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C9 PFNA	85		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C6 PFDA	85		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C7 PFUnA	84		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C2 PFDoA	83		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C8 PFOS	86		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C3 PFHxS	85		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C2-4:2-FTS	79		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C2-6:2-FTS	85		50 - 200	11/11/25 08:47	11/12/25 02:50	1
13C2-8:2-FTS	84		50 - 200	11/11/25 08:47	11/12/25 02:50	1

**Lab Sample ID: LLCS 810-168608/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168734**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 168608**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0018		ug/L		91	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		98	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0019		ug/L		94	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0019		ug/L		94	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0020		ug/L		101	50 - 150

# QC Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

Lab Sample ID: LLCS 810-168608/2-A

Matrix: Drinking Water

Analysis Batch: 168734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168608

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0018		ug/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0016		ug/L		92	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0016		ug/L		90	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0017		ug/L		89	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0017		ug/L		91	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0017		ug/L		90	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0017		ug/L		89	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0016		ug/L		86	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0018		ug/L		95	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0020		ug/L		104	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0017		ug/L		90	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0018		ug/L		88	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.00178	0.0019		ug/L		108	50 - 150

Isotope Dilution	LLCS	LLCS	Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	86		50 - 200
13C4 PFBA	90		50 - 200
13C3 PFBS	87		50 - 200
13C5 PFPeA	90		50 - 200
13C5 PFHxA	87		50 - 200
13C4 PFHpA	87		50 - 200
13C8 PFOA	89		50 - 200
13C9 PFNA	88		50 - 200
13C6 PFDA	87		50 - 200
13C7 PFUnA	85		50 - 200
13C2 PFDoA	85		50 - 200
13C8 PFOS	90		50 - 200
13C3 PFHxS	87		50 - 200
13C2-4:2-FTS	82		50 - 200
13C2-6:2-FTS	85		50 - 200
13C2-8:2-FTS	84		50 - 200

# QC Sample Results

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

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

**Lab Sample ID: MBL 810-168096/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168256**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 168096**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0007		0.0050	ug/L		11/07/25 06:37	11/08/25 08:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		11/07/25 06:37	11/08/25 08:58	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		11/07/25 06:37	11/08/25 08:58	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		11/07/25 06:37	11/08/25 08:58	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	93		70 - 130	11/07/25 06:37	11/08/25 08:58	1
13C2 PFHxA	93		70 - 130	11/07/25 06:37	11/08/25 08:58	1
13C2 PFDA	100		70 - 130	11/07/25 06:37	11/08/25 08:58	1
13C3 HFPO-DA	87		70 - 130	11/07/25 06:37	11/08/25 08:58	1

**Lab Sample ID: LLCS 810-168096/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168256**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 168096**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00200	0.0018		ug/L		89	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00200	0.0017		ug/L		86	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0022		ug/L		112	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0022		ug/L		111	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	95		70 - 130
13C2 PFDA	99		70 - 130
13C3 HFPO-DA	90		70 - 130

## Method: 200.7 UCMR5 - Metals (ICP)

**Lab Sample ID: MBL 810-167963/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168247**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 167963**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<1.70		9.00	ug/L		11/06/25 13:33	11/07/25 15:15	1

**Lab Sample ID: LLCS 810-167963/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 168247**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 167963**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	9.00	9.10		ug/L		101	50 - 150

Eurofins Eaton Analytical South Bend

# QC Association Summary

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

## LCMS

### Prep Batch: 167867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	533	
MBL 810-167867/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-167867/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

### Analysis Batch: 167972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	533	167867
MBL 810-167867/1-A	Method Blank	Total/NA	Drinking Water	533	167867
LLCS 810-167867/2-A	Lab Control Sample	Total/NA	Drinking Water	533	167867

### Prep Batch: 168096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	537.1 DW	
MBL 810-168096/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-168096/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

### Analysis Batch: 168256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	537.1 UCMR5	168096
MBL 810-168096/1-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	168096
LLCS 810-168096/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	168096

### Prep Batch: 168608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1FRB	FRB	Total/NA	Drinking Water	533	
MBL 810-168608/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-168608/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

### Analysis Batch: 168734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1FRB	FRB	Total/NA	Drinking Water	533	168608
MBL 810-168608/1-A	Method Blank	Total/NA	Drinking Water	533	168608
LLCS 810-168608/2-A	Lab Control Sample	Total/NA	Drinking Water	533	168608

## Metals

### Prep Batch: 167963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	200.7 UCMR5	
MBL 810-167963/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-167963/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

### Analysis Batch: 168247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170665-1	5562258/EP002/Treatment Plant	Total/NA	Drinking Water	200.7 UCMR5	167963
MBL 810-167963/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	167963
LLCS 810-167963/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	167963

# Lab Chronicle

Client: City of Piqua  
 Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
 OH

Job ID: 810-170665-1

**Client Sample ID: 5562258/EP002/Treatment Plant**

**Lab Sample ID: 810-170665-1**

**Date Collected: 11/04/25 14:00**

**Matrix: Drinking Water**

**Date Received: 11/05/25 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			167867	MM	EA SB	11/06/25 08:41
Total/NA	Analysis	533		1	167972	PP	EA SB	11/07/25 08:24
Total/NA	Prep	537.1 DW			168096	GZ	EA SB	11/07/25 06:37
Total/NA	Analysis	537.1 UCMR5		1	168256	GL	EA SB	11/08/25 10:16
Total/NA	Prep	200.7 UCMR5			167963	NB	EA SB	11/06/25 13:33
Total/NA	Analysis	200.7 UCMR5		1	168247	AC	EA SB	11/07/25 15:55

**Laboratory References:**

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

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# Accreditation/Certification Summary

Client: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

## Laboratory: Eurofins Eaton Analytical South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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# Method Summary

Client: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

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: City of Piqua  
Project/Site: UCMR5 - OH5501211 - SE4 - TP - City of Piqua,  
OH

Job ID: 810-170665-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-170665-1	5562258/EP002/Treatment Plant	Drinking Water	11/04/25 14:00	11/05/25 09:45	OH5501211
810-170665-1FRB	5562258/EP002/Treatment Plant	Drinking Water	11/04/25 14:00	11/05/25 09:45	OH5501211

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**South Bend, IN**

110 S Hill Street  
 South Bend, IN 46617  
 Phone (574) 233-4777; Phone (800) 332-4345

**"UCMR 5 Sampling Form for Single Collection Site"**

(Separate form is needed for each collection site)



810-170665 COC

Company Contact: Jan Stevens  
 Company Name: City of Piqua  
 Company Address: 9801 N. St. Rt. 66  
Piqua OH 45356  
 Phone: 1-937-778-2090  
 Email: jmstevens@piquaoh.gov  
 Purchase Order: \_\_\_\_\_

Lab PM(name): Pamela Brown  
 PM Email: Pamela.Brown@eurofinsus.com  
 EEA Project: 81009963

PWSID: OHSS01211  
 FacID: SS62258  
 SPID: EPO02  
 FacName: Treatment Plant (Piqua)  
 SPName: Ron Smith  
 Sampling Event: UCMRS

Water System Name: Piqua Municipal Water Plant  
 Collection Location: 9801 N. St. Rt. 66 Piqua OH 45356  
 Scheduled Collection Date: 11-4-25

Sampler Name (Print): Ron Smith

Date/Time Sampled: 11-4-25 1400

Client Storage temp, if > 2 days from collection: \_\_\_\_\_

**AREA BELOW FOR LAB USE ONLY**

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

Method	Type	# Bot	IR Gun#: <u>32</u>		pH* value	Ice: <u>Wet</u> / 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	0.4	1.1		✓		A		
533	FS	2	0.4	1.1		✓		A		
533	FS	3	0.4	1.1		✓		A		
533	FRB	1	1.2	1.9		✓		A		
537.1	FS	1	1.0	1.7		✓		A		
537.1	FS	2	1.0	1.7		✓		A		
537.1	FS	3	1.0	1.7		✓		A		
537.1	FRB	1	0.4	1.1		✓		A		

\* 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: [Signature] FEA-53 Date/Time: 11-05-2025 2045

## Login Sample Receipt Checklist

Client: City of Piqua

Job Number: 810-170665-1

**Login Number: 170665**

**List Source: Eurofins Eaton Analytical South Bend**

**List Number: 1**

**Creator: Moore, Gary**

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	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	

