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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Greg Wikholm
City of New Port Richey
9748 Decubellis Road
New Port Richey, Florida 34654

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JOB DESCRIPTION

UCMR5

JOB NUMBER

810-89702-1

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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	9
Isotope Dilution Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

Definitions/Glossary

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 New Port Richey
Project: UCMR5

Job ID: 810-89702-1

Job ID: 810-89702-1

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Job Narrative 810-89702-1

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 1/5/2024 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.

Detection Summary

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Client Sample ID: Plant Effluent
PWSID Number: FL6511255

Lab Sample ID: 810-89702-1

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Client Sample ID: 810-89535-A-1-A FRB

**Lab Sample ID: 810-89535-A-1-A
FRB**

Date Collected:

Matrix: Drinking Water

Date Received:

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0005		0.0047	ug/L		01/09/24 07:41	01/10/24 07:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0056	ug/L		01/09/24 07:41	01/10/24 07:03	1
Perfluorotetradecanoic acid (PFTA)	<0.0006		0.0075	ug/L		01/09/24 07:41	01/10/24 07:03	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0006		0.0066	ug/L		01/09/24 07:41	01/10/24 07:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		70 - 130			01/09/24 07:41	01/10/24 07:03	1
13C2 PFHxA	97		70 - 130			01/09/24 07:41	01/10/24 07:03	1
13C2 PFDA	95		70 - 130			01/09/24 07:41	01/10/24 07:03	1
13C3 HFPO-DA	92		70 - 130			01/09/24 07:41	01/10/24 07:03	1

Client Sample ID: Plant Effluent

Lab Sample ID: 810-89702-1

Date Collected: 01/03/24 14:30

Matrix: Drinking Water

Date Received: 01/05/24 09:00

PWSID Number: FL6511255

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		01/09/24 08:44	01/10/24 23:45	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		01/09/24 08:44	01/10/24 23:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		01/09/24 08:44	01/10/24 23:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0020		0.0020	ug/L		01/09/24 08:44	01/10/24 23:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0050		0.0050	ug/L		01/09/24 08:44	01/10/24 23:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		01/09/24 08:44	01/10/24 23:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		01/09/24 08:44	01/10/24 23:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		01/09/24 08:44	01/10/24 23:45	1

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Client Sample Results

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Client Sample ID: Plant Effluent

Date Collected: 01/03/24 14:30

Date Received: 01/05/24 09:00

Lab Sample ID: 810-89702-1

Matrix: Drinking Water

PWSID Number: FL6511255

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030	ug/L		01/09/24 08:44	01/10/24 23:45	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	79		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C4 PFBA	78		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C3 PFBS	81		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C5 PFPeA	76		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C5 PFHxA	77		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C4 PFHpA	76		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C8 PFOA	75		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C9 PFNA	75		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C6 PFDA	74		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C7 PFUnA	74		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C2 PFDoA	72		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C8 PFOS	79		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C3 PFHxS	80		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C2-4:2-FTS	93		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C2-6:2-FTS	83		50 - 200			01/09/24 08:44	01/10/24 23:45	1
13C2-8:2-FTS	78		50 - 200			01/09/24 08:44	01/10/24 23:45	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)	<0.0048		0.0048	ug/L		01/09/24 07:41	01/10/24 07:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0058		0.0058	ug/L		01/09/24 07:41	01/10/24 07:14	1
Perfluorotetradecanoic acid (PFTA)	<0.0077		0.0077	ug/L		01/09/24 07:41	01/10/24 07:14	1
Perfluorotridecanoic acid (PFTTrDA)	<0.0068		0.0068	ug/L		01/09/24 07:41	01/10/24 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130			01/09/24 07:41	01/10/24 07:14	1
13C2 PFHxA	89		70 - 130			01/09/24 07:41	01/10/24 07:14	1
13C2 PFDA	99		70 - 130			01/09/24 07:41	01/10/24 07:14	1
13C3 HFPO-DA	85		70 - 130			01/09/24 07:41	01/10/24 07:14	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		01/11/24 12:30	01/12/24 10:08	1

Surrogate Summary

Client: City of New Port Richey
 Project/Site: UCMR5

Job ID: 810-89702-1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)
810-89535-A-1-A FRB	FRB	89	97	95	92
810-89702-1	Plant Effluent	97	89	99	85
LLCS 810-84993/3-A	Lab Control Sample	98	90	97	90
MBL 810-84993/2-A	Method Blank	102	90	95	92

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

HFPODA = 13C3 HFPO-DA



Isotope Dilution Summary

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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)
810-89702-1	Plant Effluent	79	78	81	76	77	76	75	75
LLCS 810-85003/2-A	Lab Control Sample	84	82	85	84	84	83	83	82
MBL 810-85003/1-A	Method Blank	78	80	89	80	80	79	79	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C6PFDA (50-200)	13C7PUA (50-200)	PFDoA (50-200)	C8PFOS (50-200)	C3PFHS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
810-89702-1	Plant Effluent	74	74	72	79	80	93	83	78
LLCS 810-85003/2-A	Lab Control Sample	80	76	73	81	80	84	82	80
MBL 810-85003/1-A	Method Blank	74	70	67	79	82	82	83	79

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
- PFDoA = 13C2 PFDoA
- 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 New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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

Lab Sample ID: MBL 810-85003/1-A
Matrix: Drinking Water
Analysis Batch: 85153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85003

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0005		0.0050	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoropentanoic acid (PFPeA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorohexanoic acid (PFHxA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoroheptanoic acid (PFHpA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorooctanoic acid (PFOA)	<0.0004		0.0040	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorononanoic acid (PFNA)	<0.0004		0.0040	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorodecanoic acid (PFDA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoroundecanoic acid (PFUnA)	<0.0004		0.0020	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorododecanoic acid (PFDoA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.0004		0.0040	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0004		0.0040	ug/L		01/09/24 08:44	01/10/24 18:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0005		0.0050	ug/L		01/09/24 08:44	01/10/24 18:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0005		0.0020	ug/L		01/09/24 08:44	01/10/24 18:10	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0005		0.0050	ug/L		01/09/24 08:44	01/10/24 18:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0006		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0007		0.0050	ug/L		01/09/24 08:44	01/10/24 18:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0006		0.0050	ug/L		01/09/24 08:44	01/10/24 18:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0009		0.0200	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0003		0.0040	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0004		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0005		0.0030	ug/L		01/09/24 08:44	01/10/24 18:10	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	78		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C4 PFBA	80		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C3 PFBS	89		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C5 PFPeA	80		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C5 PFHxA	80		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C4 PFHpA	79		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C8 PFOA	79		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C9 PFNA	78		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C6 PFDA	74		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C7 PFUnA	70		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C2 PFDoA	67		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C8 PFOS	79		50 - 200	01/09/24 08:44	01/10/24 18:10	1

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QC Sample Results

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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

Lab Sample ID: MBL 810-85003/1-A
Matrix: Drinking Water
Analysis Batch: 85153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85003

Isotope Dilution	MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFHxS	82		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C2-4:2-FTS	82		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C2-6:2-FTS	83		50 - 200	01/09/24 08:44	01/10/24 18:10	1
13C2-8:2-FTS	79		50 - 200	01/09/24 08:44	01/10/24 18:10	1

Lab Sample ID: LLCS 810-85003/2-A
Matrix: Drinking Water
Analysis Batch: 85153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85003

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	0.00200	0.0019		ug/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	0.00200	0.0021		ug/L		107	50 - 150
Perfluorohexanoic acid (PFHxA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluorononanoic acid (PFNA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00200	0.0021		ug/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	0.00200	0.0021		ug/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.00189	0.0019		ug/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00178	0.0018		ug/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00183	0.0018		ug/L		101	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.00191	0.0019		ug/L		99	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00186	0.0019		ug/L		101	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.00188	0.0019		ug/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.00200	0.0019		ug/L		95	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.00187	0.0019		ug/L		101	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.00189	0.0019		ug/L		101	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.00188	0.0022		ug/L		118	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.00190	0.0021		ug/L		110	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.00192	0.0022		ug/L		116	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00200	0.0019		ug/L		95	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00200	0.0020		ug/L		100	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.00200	0.0020		ug/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.00178	0.0017		ug/L		93	50 - 150

QC Sample Results

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	84		50 - 200
13C4 PFBA	82		50 - 200
13C3 PFBS	85		50 - 200
13C5 PFPeA	84		50 - 200
13C5 PFHxA	84		50 - 200
13C4 PFHpA	83		50 - 200
13C8 PFOA	83		50 - 200
13C9 PFNA	82		50 - 200
13C6 PFDA	80		50 - 200
13C7 PFUnA	76		50 - 200
13C2 PFDoA	73		50 - 200
13C8 PFOS	81		50 - 200
13C3 PFHxS	80		50 - 200
13C2-4:2-FTS	84		50 - 200
13C2-6:2-FTS	82		50 - 200
13C2-8:2-FTS	80		50 - 200

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

Lab Sample ID: MBL 810-84993/2-A
Matrix: Drinking Water
Analysis Batch: 85076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84993

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0005		0.0050	ug/L		01/09/24 07:41	01/10/24 05:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0006		0.0060	ug/L		01/09/24 07:41	01/10/24 05:07	1
Perfluorotetradecanoic acid (PFTA)	<0.0007		0.0080	ug/L		01/09/24 07:41	01/10/24 05:07	1
Perfluorotridecanoic acid (PFTrDA)	<0.0006		0.0070	ug/L		01/09/24 07:41	01/10/24 05:07	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	102		70 - 130	01/09/24 07:41	01/10/24 05:07	1
13C2 PFHxA	90		70 - 130	01/09/24 07:41	01/10/24 05:07	1
13C2 PFDA	95		70 - 130	01/09/24 07:41	01/10/24 05:07	1
13C3 HFPO-DA	92		70 - 130	01/09/24 07:41	01/10/24 05:07	1

Lab Sample ID: LLCS 810-84993/3-A
Matrix: Drinking Water
Analysis Batch: 85076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84993

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		83	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.00200	0.0016		ug/L		80	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.00200	0.0016		ug/L		80	50 - 150

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	98		70 - 130

QC Sample Results

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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

Lab Sample ID: LLCS 810-84993/3-A
Matrix: Drinking Water
Analysis Batch: 85076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84993

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	90		70 - 130
13C2 PFDA	97		70 - 130
13C3 HFPO-DA	90		70 - 130

Method: 200.7 UCMR5 - Metals (ICP)

Lab Sample ID: MB 810-85389/1-A
Matrix: Drinking Water
Analysis Batch: 85518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85389

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Lithium	<9.00		9.00	ug/L		01/11/24 12:30	01/12/24 09:53	1

Lab Sample ID: LLCS 810-85389/2-A
Matrix: Drinking Water
Analysis Batch: 85518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85389

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Lithium	9.00	9.17		ug/L		102	50 - 150

QC Association Summary

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

LCMS

Prep Batch: 84993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89535-A-1-A FRB	FRB	Total/NA	Drinking Water	537.1 DW	
810-89702-1	Plant Effluent	Total/NA	Drinking Water	537.1 DW	
MBL 810-84993/2-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-84993/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 85003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89702-1	Plant Effluent	Total/NA	Drinking Water	533	
MBL 810-85003/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-85003/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

Analysis Batch: 85076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89535-A-1-A FRB	FRB	Total/NA	Drinking Water	537.1 UCMR5	84993
810-89702-1	Plant Effluent	Total/NA	Drinking Water	537.1 UCMR5	84993
MBL 810-84993/2-A	Method Blank	Total/NA	Drinking Water	537.1 UCMR5	84993
LLCS 810-84993/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 UCMR5	84993

Analysis Batch: 85153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89702-1	Plant Effluent	Total/NA	Drinking Water	533	85003
MBL 810-85003/1-A	Method Blank	Total/NA	Drinking Water	533	85003
LLCS 810-85003/2-A	Lab Control Sample	Total/NA	Drinking Water	533	85003

Metals

Prep Batch: 85389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89702-1	Plant Effluent	Total/NA	Drinking Water	200.7 UCMR5	
MB 810-85389/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	
LLCS 810-85389/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	

Analysis Batch: 85518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-89702-1	Plant Effluent	Total/NA	Drinking Water	200.7 UCMR5	85389
MB 810-85389/1-A	Method Blank	Total/NA	Drinking Water	200.7 UCMR5	85389
LLCS 810-85389/2-A	Lab Control Sample	Total/NA	Drinking Water	200.7 UCMR5	85389

Lab Chronicle

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Client Sample ID: Plant Effluent

Lab Sample ID: 810-89702-1

Date Collected: 01/03/24 14:30

Matrix: Drinking Water

Date Received: 01/05/24 09:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	533			85003	KB	EA SB	01/09/24 08:44
Total/NA	Analysis	533		1	85153	KB	EA SB	01/10/24 23:45
Total/NA	Prep	537.1 DW			84993	KM	EA SB	01/09/24 07:41
Total/NA	Analysis	537.1 UCMR5		1	85076	BS	EA SB	01/10/24 07:14
Total/NA	Prep	200.7 UCMR5			85389	NB	EA SB	01/11/24 12:30
Total/NA	Analysis	200.7 UCMR5		1	85518	AC	EA SB	01/12/24 10:08

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: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: City of New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

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 New Port Richey
Project/Site: UCMR5

Job ID: 810-89702-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-89702-1	Plant Effluent	Drinking Water	01/03/24 14:30	01/05/24 09:00	FL6511255

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: Mr Orlg Wikholm

Company Name: City of New Port Richey

Company Address: 9748 DeCubellis Road

New Port Richey FL 34654

Phone: 727-809-5779

Email: wikholm@cityofnewportrichey.org

Purchase Order: N/A

Lab PM(name): _____

PM Email: _____

EEA Project: _____

PWSID: _____

FacID: _____



810-89702 Chain of Custody

Event: _____

Water System Name: City of New Port Richey

Collection Location: Plant Effluent

Scheduled Collection Date: 01/03/24 1430

Sampler Name (Print): Daniel Robelton

Date/Time Sampled: 01/03/24

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-SOP-SOP48964 UCMR 5 QAPP

Method	Type	# Bot	IR Gun#: <u>30</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	<u>2.2 / 2.0</u>		✓		<u>A</u>		
533	FS	2	<u>2.0 / 1.8</u>		✓		<u>A</u>		
533	FS	3	<u>1.8 / 1.6</u>		✓		<u>A</u>		
533	FRB	1	<u>1.8 / 1.6</u>		✓		<u>A</u>		
537.1	FS	1	<u>1.8 / 1.6</u>		✓		<u>A</u>		
537.1	FS	2	<u>1.8 / 1.6</u>		✓		<u>A</u>		
537.1	FS	3	<u>1.6 / 1.4</u>		✓		<u>A</u>		
537.1	FRB	1	<u>1.6 / 1.4</u>		✓		<u>A</u>		

* 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]

Date/Time: 1/5/24 900 AM

Login Sample Receipt Checklist

Client: City of New Port Richey

Job Number: 810-89702-1

Login Number: 89702

List Number: 1

Creator: Moffitt, Tisha

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	