RAMBOLL

ENVIRONMENT
& HEALTH

Ms. Tiffany Minder
Environmental Compliance Supervisor
City of Flint Water Pollution
Water Pollution Control Facilities
G4652 Beecher Rd.
Flint, MI, 48532

RE: ***Discharge Permit Submittal– April 2025 through June 2025***
Permit No.: 6-08-04-04-GML1
FILE: 1088190/1940113233/Docs

July 25, 2025

Dear **Ms. Minder:**
In accordance with the requirements of the above referenced discharge permit, we are providing you with the following discharge information for the period April 1, 2025 to June 30, 2025 for the Coldwater Road Landfill facility, located at 6220 Horton Avenue, Mount Morris, Michigan. In addition, we are reporting the performance of the per- and polyfluoroalkyl substances (PFAS) pretreatment system in this letter. This report includes the following information:

- Periodic Report on Continued Compliance, certification.
- Periodic Report on Continued Compliance Sample (Table 1).
- Daily Discharge Summary Table (Table 2).
- PFAS Sampling Results Table (Table 3).
- Analytical Reports provided by Merit Laboratories, Inc. for samples from the on-Site, above ground collection tank collected on June 10, 2025.
- Analytical Reports provided by Merit Laboratories, Inc. for samples from the on-Site, PFAS pretreatment system collected on June 24, 2025, and June 27, 2025, during the discharge of the liquids from the on-Site, above ground collection tank through the system.
- Copy of Chain-of-Custody forms.

The laboratory analytical results indicate concentrations in the effluent were below the Sewer Use Permit limits for the required monitoring parameters during the discharge period.

In addition, the PFAS analytical results for the effluent sample were below the Sewer Use Permit limits and were below the current EGLE Part 4, Water Quality Standards, Rule 57 Water Quality Values. Therefore, the PFAS pretreatment system is operating as designed.

Influent and post-GAC vessel samples were collected from the four in-line GAC vessels on June 24, 2025 and June 27, 2025 during the accumulation tank discharge. The influent sample had a detection of 7,000 ng/l for perfluorooctane sulfonic acid (PFOS).

Ramboll
2090 Commonwealth Blvd.
Ann Arbor, MI 48105
USA

T 734-761-4000
F 734-761-2050
https://ramboll.com

PFOS was detected at a concentration 6.8 ng/l from the primary GAC vessel sample collected at the start of the discharge on June 24, 2025. In the samples collected just before discharge was discontinued, PFOS was detected at a concentration of 2.2 ng/l from the primary GAC vessel sample port, and at a concentration of 0.88 ng/l from the quaternary (fourth) GAC vessel sample port. PFOS was not detected above the reporting limit in the secondary or tertiary (third) GAC vessels.

Based on these data, the GAC vessels will continue to be utilized for the next discharge event, and we will evaluate whether changing out the GAC in the primary vessel will be necessary following that discharge event. If it is determined that the primary GAC vessel should be changed out, then new GAC would be placed in the primary vessel and the system components would be changed so that the existing quaternary (fourth), tertiary (third), and secondary GAC vessels would be moved up in position making the primary vessel the new quaternary vessel (last vessel before discharge) for the approved four-vessel pretreatment system.

Please call me at 313-333-0211 if you have any questions.

Yours sincerely,
RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

Clifford S. Yantz
Project Manager

M 313.333.0211
Clifford.yantz@ramboll.com

cc: Mr. Kevin Forbes – Beecher Metropolitan District, Flint, MI
Ms. Nicole Sanabria – EGLE (via email)
Ms. Christina Hebert – EGLE (via email)
Mr. Brendan Mullen – RACER Trust (via email)
Mr. David Favero – RACER Trust (via email)
Mr. Kevin Schneider – Ramboll (via email)

City of Flint
Industrial Pretreatment Program

Periodic Report on Continued Compliance

Company Name: RACER Trust, Coldwater Road
Street Address: 6220 Horton Avenue, Flint, Michigan
Permit Number: 6-08-04-04-GML1
Outfall Number: 001

Reporting Period: April 1, 2025 through June 30, 2025

Average Volume of Daily Discharge (during reporting period): 2,704 gallons
(Three One Day Events)

Complete the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name of Authorized Representative: Clifford Yantz

Title of Authorized Representative: Project Manager, Ramboll Americas Engineering Solutions, Inc., As agent for the RACER Trust

Signature of Authorized Representative: Clifford Scott Yantz, as agent for RACER Trust

Date Signed by Authorized Representative: 7/25/25

If required to implement a Toxic Organics Management Plan (TOMP), complete the following:

"Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last Periodic Report on Continued Compliance. I further certify that, this facility is implementing the toxic organic management plan submitted to the control authority."

Name of Authorized Representative: N/A

Title of Authorized Representative: N/A

Signature of Authorized Representative: N/A

Date Signed by Authorized Representative: N/A

Table 1
Periodic Report on Continued Compliance
City of Flint Sewer User Self-Monitoring Report
Second Quarter - 2025 - GSWVR Sample

RACER Trust - Coldwater Road Landfill Facility
Permit Number 6-08-04-04-GML1
6220 Horton Avenue

Analytical Parameter	Ammonia-N	BOD5	HEM	pH @ 25°C	Phosphorus	TSS
Units	mg/L	mg/L	mg/L	SU	mg/L	mg/L
Sampling Frequency	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch
Sampling Procedure	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample
Daily Maximum Limit	110	1196	100	NA	14	570
Maximum Limit	NA	NA	NA	10.5	NA	NA
Minimum Limit	NA	NA	NA	6	NA	NA
Test Result	2.3	21.0	<2	8.66	0.04	25.9
Test Method	4500-NH3 G	10360	1664A	4500-H+ B	4500-PE	2540 D
Test Date	6/12/2025	6/11/2025	6/16/2025	6/10/2025	6/13/2025	6/11/2025
Sample Date	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025
Sample Type	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater
Test Result						
Test Method						
Test Date						
Sample Date						
Sample Type						
Test Result						
Test Method						
Test Date						
Sample Date						
Sample Type						
Average Daily Conc.						
No. of Samples						
Number of Limit Exceedances						

Table 1
Periodic Report on Continued Compliance
City of Flint Sewer User Self-Monitoring Report
Second Quarter - 2025 - GSWVR Sample

RACER Trust - Coldwater Road Landfill Facility
Permit Number 6-08-04-04-GML1
6220 Horton Avenue

Analytical Parameter	Arsenic	Chromium	Copper	Mercury	Nickel	Zinc	Cyanide, available
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sampling Frequency	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch
Sampling Procedure	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample
Daily Maximum Limit	0.051	1.273	1.714	0.000012	0.543	2.626	0.165
Maximum Limit	NA	NA	NA	NA	NA	NA	NA
Minimum Limit	NA	NA	NA	NA	NA	NA	NA
Test Result	0.005	0.100	0.400	<0.0002	0.110	0.027	<0.0020
Test Method	E200.8	200.8	200.8	245.1	200.8	200.8	1677
Test Date	6/13/2025	6/13/2025	6/13/2025	6/13/2025	6/13/2025	6/13/2025	6/13/2025
Sample Date	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025	6/10/2025
Sample Type	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater
Test Result							
Test Method							
Test Date							
Sample Date							
Sample Type							
Test Result							
Test Method							
Test Date							
Sample Date							
Sample Type							
Average Daily Conc.							
No. of Samples							
Number of Limit Exceedances							

Table 1
Periodic Report on Continued Compliance
City of Flint Sewer User Self-Monitoring Report
Second Quarter - 2025 - GSWVR Sample

RACER Trust - Coldwater Road Landfill Facility Permit Number 6-08-04-04-GML1 6220 Horton Avenue							
Analytical Parameter	**PFBS**	**PFHxS**	**PFHxA**	**PFNA**	**PFOA**	**PFOS**	**HFPO-DA**
Units	**ng/L**	**ng/L**	**ng/L**	**ng/L**	**ng/L**	**ng/L**	**ng/L**
Sampling Frequency	**Per Batch**	**Per Batch**	**Per Batch**	**Per Batch**	**Per Batch**	**Per Batch**	**Per Batch**
Sampling Procedure	**Grab Sample**	**Grab Sample**	**Grab Sample**	**Grab Sample**	**Grab Sample**	**Grab Sample**	**Grab Sample**
Daily Maximum Limit	**420**	**51**	**400000**	**6**	**8**	**16**	**370**
Maximum Limit	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Minimum Limit	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Test Result	**<2.1**	**<2.1**	**<2.1**	**<2.1**	**<2.1**	**0.88**	**<10**
Test Method	ASTMD7979-19M	ASTMD7979-19M	ASTMD7979-19M	ASTMD7979-19M	ASTMD7979-19M	ASTMD7979-19M	ASTMD7979-19M
Test Date	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025
Sample Date	6/27/2025	6/27/2025	6/27/2025	6/27/2025	6/27/2025	6/27/2025	6/27/2025
Sample Type	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater
Test Result							
Test Method							
Test Date							
Sample Date							
Sample Type							
Test Result							
Test Method							
Test Date							
Sample Date							
Sample Type							
Average Daily Conc.							
No. of Samples							
Number of Limit Exceedances							

TABLE 2
RACER Trust - Coldwater Road
Daily Discharge Summary Table
Second Quarter 2025
6-08-04-04-GML1

Date	Beginning Flow Meter Reading	End Flow Meter Reading	Gallons Discharged	Begin Time of Discharge	End Time of Discharge	Average Flow (gal/min)	Temperature at Discharge (C)	(F)	pH
6/24/2025 to 6/26/2025	0	4,011	**4,011**	12:44 p.m. (6/24/2025)	9:40 a.m. (6/26/2025)	1.48	23.7	74.7	8.96
6/26/2025 to 6/27/2025	4,011	8,112	**4,101**	9:40 a.m. (6/26/2025)	8:10 a.m. (6/27/2025)	3.04	22.5	72.5	7.34

Total Discharge Volume: **8,112**
Average Discharge Volume (3 Days): **2,704**

NOTES : From June 24, 2025 to June 26, 2025 the system was running at a lower rate of 1.48 gpm due to a clog in the system caused by loose carbon from the recent carbon changeout. The clog was removed on June 26, 2025 and the system operated at a rate of 3.04 gpm until tank was empty. Accumulation tank discharged continuously from 12:44 p.m. on June 24, 2025 to 8:10 a.m. on June 27, 2025 (2 days, 19 hours, 26 minutes).

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TABLE 3
RACER Trust - Coldwater Road
Pre-and Polyfluroalkyl Substances (PFAS) Sampling Results - June 2025

Coldwater Road - PFAS Pretreatment System Samples

Perfluorinated Compound	Well/Sample ID: / Sample Date:	Beecher Metropolitan District Sewer Use Permit - Discharge Pollutant Limitations and Monitoring Requirements	02-PRCC-25-INF-20250624 (Influent Sample) 6/24/2025	04-PRCC-25-PRIM-20250624 (Primary GAC Vessel Sample) 6/24/2025	02-PRCC-25-PRIM-180-20250627 (Primary GAC Vessel Sample after 180 Bed Volumes) 6/27/2025	02-PRCC-25-MID-1-180-20250627 (Secondary GAC Vessel Sample after 180 Bed Volumes) 6/27/2025	02-PRCC-25-MID-2-180-20250627 (Tertiary GAC Vessel Sample after 180 Bed Volumes) 6/27/2025	02-PRCC-25-EFF-180-20250627 (Effluent Sample after 180 Bed Volumes) 6/27/2025
Perfluorobutanoic Acid (PFBA)		--	<9.9 r	<10	<10	<10	<10	<10
Perfluoropentanoic Acid (PFPeA)		--	<3.9 r	<4.2	<4.1	<4.2	<4.0	<4.1
4:2 Fluorotelomer Sulfonic Acid (4:2 FTSA)		--	<2.0 Ir	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorohexanoic Acid (PFHxA)		**400,000**	**54 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorobutane Sulfonic Acid (PFBS)		**420**	**42 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluoroheptanoic Acid (PFHpA)		--	**14 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluoropentane Sulfonic Acid (PFPeS)		--	**96 r**	<2.1	<2.0	<2.1	<2.0	<2.1
6:2 Fluorotelomer Sulfonic Acid (6:2 FTSA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorooctanoic Acid (**PFOA**)		**8**	**46 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorohexane Sulfonic Acid (PFHxS)		**51**	**360 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorohexane Sulfonic Acid - LN (PFHxS-LN)		--	**300 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorohexane Sulfonic Acid - BR (PFHxS-BR)		--	**56 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorononanoic Acid (PFNA)		**6**	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
8:2 Fluorotelomer Sulfonic Acid (8:2 FTSA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluoroheptane Sulfonic Acid (PFHpS)		--	**96 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorodecanoic Acid (PFDA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
N-methyl Perfluorooctanesulfonamidoacetic Acid (N-MeFOSAA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (EtFOSAA)		--	<3.9 r	<4.2	<4.1	<4.2	<4.0	<4.1
Perfluorooctane Sulfonic Acid (**PFOS**)		**16**	**7,000 r**	**6.8**	**2.2 J**	<2.1	<2.0	**0.88 J**
Perfluorooctane Sulfonic Acid (**PFOS**-LN)		--	**4,100 r**	**5.7**	**1.5**	<2.1	<2.0	<2.1
Perfluorooctane Sulfonic Acid (**PFOS**-BR)		--	**3,100 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluoroundecanoic Acid (PFUnDA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorononane Sulfonic Acid (PFNS)		--	**4.3 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorododecanoic Acid (PFDoDA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorodecane Sulfonic Acid (PFDS)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorotridecanoic Acid (PFTrDA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorooctane Sulfonamide (FOSA)		--	**3.9 r**	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluorotetradecanoic Acid (PFTeDA)		--	<3.9 r	<4.2	<4.1	<4.2	<4.0	<4.1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
9-chlorohexadecafluoro-3-oxanone1-sulfonic acid (9Cl-PF3ONS)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Hexafluoropropylene oxide dimer (HFPO-DA)		--	<9.9 r	<10	<10	<10	<10	<10
3-Perfluoroheptyl propanoic acid (FHpPA (7:3 FTCA))		--	<9.9 r	<10	<10	<10	<10	<10
3-Perfluoroheptyl propanoic acid (FPePA (5:3 FTCA))		--	<9.9 r	<10	<10	<10	<10	<10
3-Perfluoroheptyl propanoic acid (FPrPA (3:3 FTCA))		--	<9.9 r	<10	<10	<10	<10	<10
Perfluorobutanesulfonamide (PFBSA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Perfluoro-4-ethylcyclohexanesulfonate (PFECHS)		--	**11,000 Yr**	**1.3**	<2.0	<2.1	<2.0	<2.1
Perfluorohexanesulfonamide (PFHxSA)		--	<2.0 r	<2.1	<2.0	<2.1	<2.0	<2.1
Total Per-and Polyfluoroalkyl Substances		--	**18,716.2**	**8.1**	**2.2**	**0.0**	**0.0**	**0.9**

Notes
1) Detections in **bold**.
2) Concentrations in ng/L.
3) < = Not detected at specified reporting limit.
4) -- = Not analyzed/No criteria.
5) Dup = Duplicate sample.
6) Beecher Metropolitan District Sewer Use Permit
Discharge Pollutant Limitations and Monitoring Requirements - October 15, 2021.
7) Concentrations above the discharge limit are highlighted in yellow.
8) Number after Prim (Primary GAC vessel), Mid (Secondary GAC vessel), and Eff (Effluent sample after tertiary GAC vessel) samples equals number of GAC Bed volumes discharged through the pretreatment system at the time of sample collection. One bed volume equals 45 gallons.
9) Branched and linear values for perfluorohexane sulfonic acid (PFHxS) and perfluorooctane sulfonic acid (PFOS) are reported in the table but are not inculded in the Total Per-and Polyfluoroalkyl Substances.
9) I - Matrix interference with internal standard.
10) J - Estimated value less than reporting limit, but greater than MDL.
11) r - This analyte is being reported as the best result from multiple runs.
12) X - Elevated reporting limit due to matrix interference.
13) Y - Elevated reporting limit due to high target concentration.
14) QA/QC Samples were either not detected above the reporting limit or below the Beecher Metropolitan District Sewer Use Permit Discharge Limits.

Analytical Laboratory Report

Report ID: S75520.01(01)
Generated on 06/18/2025

Report to

Attention: Clifford Yantz
Ramboll
2090 Commonwealth Blvd.
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Addtional Contacts: Kevin Schneider

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S75520.01
Project: RACER Coldwater Road
Collected Date(s): 06/10/2025
Submitted Date/Time: 06/10/2025 15:30
Sampled by: Savannah Thielbar
P.O. #: 1940011180 TASK 001

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Starred (*) analytes are not NY NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.
All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.
For a specific list of accredited analytes, please feel free to contact the laboratory or visit https://www.meritlabs.com/certifications.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
E1664A	EPA Method 1664 Revision A February 1999
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
OIA-1677	EPA Method OIA-1677-09
SM2540D	Standard Method 2540 D 2020
SM2550B	Standard Method 2550 B 2010
SM4500-H+ B	Standard Method 4500 H + B 2021
SM4500-NH3 G	Standard Method 4500 NH3 G 2021
SM4500-PE	Standard Method 4500 P E 2021 / 4500 P B(5) 2021
SM5210B/HACH1036	Standard Method 5210 B 2016 / HACH 10360
SW3015A	SW 846 Method 3015A Revision 1 February 2007

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S75520.01	02-PRCC-25-20250610	Wastewater	06/10/25 09:00

Analytical Laboratory Report

Lab Sample ID: S75520.01
Sample Tag: 02-PRCC-25-20250610
Collected Date/Time: 06/10/2025 09:00
Matrix: Wastewater
COC Reference: 184991

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	None	Yes	4.6	IR
1	125mL Plastic	HNO3	Yes	4.6	IR
1	500mL Plastic	None	Yes	4.6	IR
1	125mL Amber	PbCO3/NaOH	Yes	4.6	IR
1	32oz Glass	HCL	Yes	4.6	IR
1	250mL Plastic	H2SO4	Yes	4.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Mercury Digestion	Completed	E245.1	06/13/25 10:16	CTV	
TBOD5 - Set*	Completed	SM5210B/HACH1036	06/11/25 14:00	SSM	
Metal Digestion	Completed	SW3015A	06/13/25 10:30	CCM	

Inorganics

Method: E1664A, Run Date: 06/16/25 12:00, Analyst: JW

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Oil & Grease n-Hexane Extract.	Not detected	2		mg/L	1		

Method: SM2540D, Run Date: 06/11/25 17:00, Analyst: DMK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Suspended Solids	25.9	3		mg/L	1		

Method: SM2550B, Run Date: 06/10/25 09:00, Analyst: ST

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Field Temperature*	64	1		oF	1		

Method: SM4500-H+ B, Run Date: 06/10/25 09:00, Analyst: ST

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Field pH*	8.66	0.01		STD Units	1		

Method: SM4500-NH3 G, Run Date: 06/12/25 21:19, Analyst: MJC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ammonia-N (Undistilled)*	2.3	0.1		mg/L	5	7664-41-7	

Method: SM4500-PE, Run Date: 06/13/25 11:18, Analyst: MJC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Phosphorus*	0.04	0.01	0.009	mg/L	1	7723-14-0	

Method: SM5210B/HACH1036, Run Date: 06/16/25 15:09, Analyst: SSM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
TBOD5*	21.0	3		mg/L	6		

Metals

Method: E200.8, Run Date: 06/13/25 12:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.005	0.002		mg/L	5	7440-38-2	

Lab Sample ID: S75520.01 (continued)
Sample Tag: 02-PRCC-25-20250610

Method: E200.8, Run Date: 06/13/25 12:20, Analyst: CCM (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium	0.100	0.005		mg/L	5	7440-47-3	
Copper	0.400	0.005		mg/L	5	7440-50-8	
Nickel	0.110	0.005		mg/L	5	7440-02-0	
Zinc	0.027	0.005		mg/L	5	7440-66-6	

Method: E245.1, Run Date: 06/13/25 12:54, Analyst: CTV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Mercury	Not detected	0.0002		mg/L	1	7439-97-6	

Other / Misc.

Method: OIA-1677, Run Date: 06/13/25 17:24, Analyst: ASB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Available Cyanide	Not detected	0.0020		mg/L	1	57-12-5	

Merit Laboratories Login Checklist

Lab Set ID: S75520
Client: RAMBOLL (Ramboll Americas)
Project: RACER Coldwater Road
Submitted: 06/10/2025 15:30 Login User: PFD

Attention: Clifford Yantz
Address: Ramboll
2090 Commonwealth Blvd.
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[X] Yes	[ ] No	[ ] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC, TOX, DO or Alkalinity bottles contain	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S75520 Submitted: 06/10/2025 15:30

Client: RAMBOLL (Ramboll Americas)

Project: RACER Coldwater Road

Initial Preservation Check: 06/10/2025 16:34 PFD

Preservation Recheck (E200.8): N/A

Attention: Clifford Yantz
Address: Ramboll
2090 Commonwealth Blvd.
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S75520.01	125mL Amber PbCO3/NaOH	>12			
S75520.01	125mL Plastic HNO3	<2			
S75520.01	250mL Plastic H2SO4	<2			
S75520.01	32oz Glass HCL	<2			

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

184991

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kevin Schneider / Clifford Yantz
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO. CELL NO.: 313-333-0211 P.O. NO.: 1940011180 Task 1
E-MAIL ADDRESS: kevin.schneider@Ramboll.com; clifford.Yantz@Ramboll.com QUOTE NO.: —

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY STATE ZIP CODE:
PHONE NO. E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Savannah Thielbar

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	total Metals	Available Cyanide	BOD	TSS	Ammonia-Nitrogen	total phosphorus	FOG (Hex-Ext)
75520.01	6/10/25	0900	02-PRCC-25-20250610	ww	6	2	1	1	1	1			X	X	X	X	X	X	X

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions:

Metals Are:
As, Cr, Cu, Hg, Ni, Zn

Analysis per City of Flint including QC Report.

Field Temp = 17.7°C
Field pH = 8.66

RELINQUISHED BY: Savannah Thielbar (Sampler) SIGNATURE/ORGANIZATION	DATE 6/10/25	TIME 1240	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1014	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1510	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1530	

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

☐ ICE (SOLID) ☐ ICE (MELTED) ☐ BLUE ICE ☐ NONE TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 02/25

Quality Control Report

Report ID: QC-S75520-01
Generated on 06/20/2025

Report to

Attention: Clifford Yantz
Ramboll
2090 Commonwealth Blvd.
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S75520.01
Project: RACER Coldwater Road
Submitted Date/Time: 06/10/2025 15:30
Sampled by: Savannah Thielbar
P.O. #: 1940011180 TASK 001

QC Report Sections

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S75520.01
Sample Tag: 02-PRCC-25-20250610
Collected Date/Time: 06/10/2025 09:00
Matrix: Wastewater
COC Reference: 184991

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Ammonia-N (Undistilled)	SM4500-NH3 G	06/12/25 21:19	AMN250612C	AMN250612C	No	BLK/LCS/MS/DUP
Oil & Grease n-Hexane Extract.	E1664A	06/16/25 12:00	OGHEX250616W1	OGHEX250616W1	No	BLK/LCS
TBOD5	SM5210B/HACH10360	06/16/25 15:09	BOD250611A	BOD250611A	No	BLK/LCS/DUP
Total Phosphorus	SM4500-PE	06/13/25 11:18	PHS250613QC	PHS250613QC	No	BLK/LCS/MS/DUP
Total Suspended Solids	SM2540D	06/11/25 17:00	TSS250611A	TSS250611A	No	BLK/LCS/DUP
Metals						
Arsenic	E200.8	06/13/25 12:20	MT4-25-0613A	MTD-061325-3	No	BLK/LCS/MS/MSD
Chromium	E200.8	06/13/25 12:20	MT4-25-0613A	MTD-061325-3	No	BLK/LCS/MS/MSD
Copper	E200.8	06/13/25 12:20	MT4-25-0613A	MTD-061325-3	No	BLK/LCS/MS/MSD
Mercury	E245.1	06/13/25 12:54	HG-25-0613A	HGD-061325-1	No	BLK/LCS/MS/MSD
Nickel	E200.8	06/13/25 12:20	MT4-25-0613A	MTD-061325-3	No	BLK/LCS/MS/MSD
Zinc	E200.8	06/13/25 12:20	MT4-25-0613A	MTD-061325-3	No	BLK/LCS/MS/MSD
Other / Misc.						
Available Cyanide	OIA-1677	06/13/25 17:24	ACN250613W2	ACN250613W2	No	BLK/LCS/MS/DUP

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: AMN250612C

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Ammonia-N (Undistilled)	SM4500-NH3 G	06/12/25 21:19	AMN250612C

Inorganics, Prep Batch ID: BOD250611A

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	TBOD5	SM5210B/HACH1036	06/16/25 15:09	BOD250611A

Inorganics, Prep Batch ID: OGHEX250616W1

Surrogates: No, QC Types: BLK/LCS

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Oil & Grease n-Hexane Extract.	E1664A	06/16/25 12:00	OGHEX250616W1

Inorganics, Prep Batch ID: PHS250613QC

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Total Phosphorus	SM4500-PE	06/13/25 11:18	PHS250613QC

Inorganics, Prep Batch ID: TSS250611A

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Total Suspended Solids	SM2540D	06/11/25 17:00	TSS250611A

Metals, Prep Batch ID: HGD-061325-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Mercury	E245.1	06/13/25 12:54	HG-25-0613A

Metals, Prep Batch ID: MTD-061325-3

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Arsenic	E200.8	06/13/25 12:20	MT4-25-0613A
S75520.01	Chromium	E200.8	06/13/25 12:20	MT4-25-0613A
S75520.01	Copper	E200.8	06/13/25 12:20	MT4-25-0613A
S75520.01	Nickel	E200.8	06/13/25 12:20	MT4-25-0613A
S75520.01	Zinc	E200.8	06/13/25 12:20	MT4-25-0613A

Other / Misc., Prep Batch ID: ACN250613W2

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75520.01	Available Cyanide	OIA-1677	06/13/25 17:24	ACN250613W2

Inorganics, Prep Batch ID: AMN250612C

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: AMN250612C.LRB1

Run in Batch: AMN250612C, Run Date: 06/12/2025 19:01, Prep Date: 06/12/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Ammonia-N (Undistilled)		ND	0.02	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: AMN250612C.LCS1

Run in Batch: AMN250612C, Run Date: 06/12/2025 19:05, Prep Date: 06/12/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N (Undistilled)		100.0	90	110

Matrix Spike (MS)

Lab Sample ID: AMN250612C.MS1, Parent Sample ID: S75569.01

Run in Batch: AMN250612C, Run Date: 06/12/2025 19:23, Prep Date: 06/12/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N (Undistilled)		95.0	80	120

Duplicate (DUP)

Lab Sample ID: AMN250612C.DP1, Parent Sample ID: S75629.01

Run in Batch: AMN250612C, Run Date: 06/12/2025 20:15, Prep Date: 06/12/2025, Matrix: Liquid, Dilution: 50

Analyte	Flags	RPD	RPD CL
Ammonia-N (Undistilled)		6.9	20

Inorganics, Prep Batch ID: BOD250611A

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: BOD250611A.LRB1

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
TBOD5		ND	3	mg/L

Blank (BLK)

Lab Sample ID: BOD250611A.LRB2

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
TBOD5		ND	3	mg/L

Blank (BLK)

Lab Sample ID: BOD250611A.LRB3

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
TBOD5		ND	3	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: BOD250611A.LCS1

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 20

Analyte	Flags	% Rec	LCL	UCL
TBOD5		105.4	51	166

Laboratory Control Sample (LCS)

Lab Sample ID: BOD250611A.LCS2

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 20

Analyte	Flags	% Rec	LCL	UCL
TBOD5		100.6	51	166

Laboratory Control Sample (LCS)

Lab Sample ID: BOD250611A.LCS3

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 20

Analyte	Flags	% Rec	LCL	UCL
TBOD5		101.0	51	166

Duplicate (DUP)

Lab Sample ID: BOD250611A.DP1, Parent Sample ID: S75484.04

Run in Batch: BOD250611A, Run Date: 06/16/2025 15:09, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 60

Analyte	Flags	RPD	RPD CL
TBOD5		3.0	20

Inorganics, Prep Batch ID: OGHEX250616W1

Surrogates: No, QC Types: BLK/LCS

Blank (BLK)

Lab Sample ID: OGHEX250616W1.LRB1

Run in Batch: OGHEX250616W1, Run Date: 06/16/2025 12:00, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Oil & Grease n-Hexane Extract.		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX250616W1.LCS1

Run in Batch: OGHEX250616W1, Run Date: 06/16/2025 12:00, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		83	78	114

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX250616W1.LCS2

Run in Batch: OGHEX250616W1, Run Date: 06/16/2025 12:00, Prep Date: 06/16/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		88	78	114

Inorganics, Prep Batch ID: PHS250613QC

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: PHS250613QC.LRB1

Run in Batch: PHS250613QC, Run Date: 06/13/2025 11:03, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Blank (BLK)

Lab Sample ID: PHS250613QC.LRB2

Run in Batch: PHS250613QC, Run Date: 06/13/2025 11:34, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHS250613QC.LCS1

Run in Batch: PHS250613QC, Run Date: 06/13/2025 11:42, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		96	90	110

Matrix Spike (MS)

Lab Sample ID: PHS250613QC.MS1, Parent Sample ID: S75520.01

Run in Batch: PHS250613QC, Run Date: 06/13/2025 14:31, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		90	80	120

Duplicate (DUP)

Lab Sample ID: PHS250613QC.DP1, Parent Sample ID: S75587.01

Run in Batch: PHS250613QC, Run Date: 06/13/2025 14:28, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Phosphorus		6.3	20

Inorganics, Prep Batch ID: TSS250611A

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: TSS250611A.LRB1

Run in Batch: TSS250611A, Run Date: 06/11/2025 17:00, Prep Date: 06/11/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Suspended Solids		ND	3	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: TSS250611A.LCS1

Run in Batch: TSS250611A, Run Date: 06/11/2025 17:00, Prep Date: 06/11/2025, Matrix: Liquid, Dilution: 10

Analyte	Flags	% Rec	LCL	UCL
Total Suspended Solids		99.0	80.9	112

Duplicate (DUP)

Lab Sample ID: TSS250611A.DP1, Parent Sample ID: S75454.01

Run in Batch: TSS250611A, Run Date: 06/11/2025 17:00, Prep Date: 06/11/2025, Matrix: Liquid, Dilution: 10

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		9.2	10

Metals, Prep Batch ID: HGD-061325-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: HG-25-0613A.015.LRB

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 12:50, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.05	ug/L

Laboratory Control Sample (LCS)

Lab Sample ID: HG-25-0613A.014.LCS

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 12:47, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		100	85	115

Matrix Spike (MS)

Lab Sample ID: HG-25-0613A.017.MS, Parent Sample ID: S75520.01

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 12:57, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		108	80	120

Matrix Spike (MS)

Lab Sample ID: HG-25-0613A.040.MS, Parent Sample ID: S75651.01

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 14:13, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		94	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG-25-0613A.018.MSD, Parent Sample ID: HG-25-0613A.017.MS

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 13:00, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		105	80	120	2	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG-25-0613A.041.MSD, Parent Sample ID: HG-25-0613A.040.MS

Run in Batch: HG-25-0613A, Run Date: 06/13/2025 14:16, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		96	80	120	1	20

Metals, Prep Batch ID: MTD-061325-3

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-25-0613A.021.LRB

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 11:45, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Chromium		ND	0.001	mg/L
Copper		ND	0.001	mg/L
Nickel		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-25-0613A.020.LCS

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 11:44, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	85	115
Chromium		104	85	115
Copper		104	85	115
Nickel		103	85	115
Zinc		100	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-25-0613A.033.MS, Parent Sample ID: S75412.01

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 12:06, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		113	75	125
Chromium		115	75	125
Copper		109	75	125
Nickel		111	75	125
Zinc		103	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-25-0613A.047.MS, Parent Sample ID: S75520.01

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 12:30, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		116	75	125
Chromium		117	75	125
Copper		107	75	125
Nickel		112	75	125
Zinc		110	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-25-0613A.034.MSD, Parent Sample ID: MT4-25-0613A.033.MS

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 12:07, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		111	75	125	1	20
Chromium		116	75	125	1	20
Copper		110	75	125	1	20
Nickel		114	75	125	2	20
Zinc		104	75	125	1	20

Metals, Prep Batch ID: MTD-061325-3 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-25-0613A.048.MSD, Parent Sample ID: MT4-25-0613A.047.MS

Run in Batch: MT4-25-0613A, Run Date: 06/13/2025 12:31, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		121	75	125	4	20
Chromium		120	75	125	2	20
Copper		115	75	125	3	20
Nickel		115	75	125	2	20
Zinc		115	75	125	4	20

Other / Misc., Prep Batch ID: ACN250613W2

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)

Lab Sample ID: ACN250613W2.LRB1

Run in Batch: ACN250613W2, Run Date: 06/13/2025 16:54, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Available Cyanide		ND	0.002	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: ACN250613W2.LCS1

Run in Batch: ACN250613W2, Run Date: 06/13/2025 16:58, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Available Cyanide		96.2	82	132

Laboratory Control Sample (LCS)

Lab Sample ID: ACN250613W2.LCS2

Run in Batch: ACN250613W2, Run Date: 06/13/2025 17:00, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Available Cyanide		99.4	82	132

Matrix Spike (MS)

Lab Sample ID: ACN250613W2.MS1, Parent Sample ID: S75448.01

Run in Batch: ACN250613W2, Run Date: 06/13/2025 17:12, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Available Cyanide		94.4	82	130

Duplicate (DUP)

Lab Sample ID: ACN250613W2.DP1, Parent Sample ID: S75448.01

Run in Batch: ACN250613W2, Run Date: 06/13/2025 17:10, Prep Date: 06/13/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Available Cyanide		8.0	15

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

184991

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Kevin Schneider / Clifford Yantz
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO. CELL NO.: 313-333-0211 P.O. NO.: 1940011180 Task 1
E-MAIL ADDRESS: kevin.schneider@Ramboll.com; clifford.Yantz@Ramboll.com QUOTE NO.: —

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY STATE ZIP CODE:
PHONE NO. E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Savannah Thielbar

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	total Metals	Available Cyanide	BOD	TSS	Ammonia-Nitrogen	total phosphorus	FOG (Hex-Ext)
75520.01	6/10/25	0900	02-PRCC-25-20250610	ww	6	2	1	1	1	1			X	X	X	X	X	X	X

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions:

Metals Are:
As, Cr, Cu, Hg, Ni, Zn

Analysis per City of Flint including QC Report.

Field Temp = 17.7°C
Field pH = 8.66

RELINQUISHED BY: Savannah Thielbar (Sampler) SIGNATURE/ORGANIZATION	DATE 6/10/25	TIME 1240	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1014	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1510	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 6/11/25	TIME 1530	

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

☐ ICE (SOLID) ☐ ICE (MELTED) ☐ BLUE ICE ☐ NONE TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 02/25

Analytical Laboratory Report

Report ID: S75991.01(01)
Generated on 07/09/2025

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Kevin Schneider, Nicole Pitkorchemny

Report Summary

Lab Sample ID(s): S75991.01-S75991.02
Project: RACER Coldwater Road
Collected Date(s): 06/24/2025
Submitted Date/Time: 06/24/2025 13:50
Sampled by: Unknown
P.O. #: 194011180 TASK37

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Starred (*) analytes are not NY NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.
All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.
For a specific list of accredited analytes, please feel free to contact the laboratory or visit https://www.meritlabs.com/certifications.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
ASTMD7979-19M	ASTM Method D7979 - 19 Modified (Isotopic Dilution)

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6
FHpPA (7:3 FTCA)	3-Perfluoroheptyl propanoic acid	812-70-4
FPePA (5:3 FTCA)	3-Perfluoropentyl propanoic acid	914637-49-3
FPrPA (3:3 FTCA)	3-Perfluoropropyl propanoic acid	356-02-5
PFBSA	Perfluorobutanesulfonamide	30334-69-1
PFECHS	Perfluoro-4-ethylcyclohexanesulfonate	80988-54-1
PFHxSA	Perfluorohexanesulfonamide	41997-13-1

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S75991.01	02-PRCC-25-INF-20250624	Wastewater	06/24/25 12:44
S75991.02	02-PRCC-25-PRIM-20250624	Wastewater	06/24/25 12:54

Analytical Laboratory Report

Lab Sample ID: S75991.01
Sample Tag: 02-PRCC-25-INF-20250624
Collected Date/Time: 06/24/2025 12:44
Matrix: Wastewater
COC Reference: 57828

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.07/6.48/11	ASTMD7979-19M	06/26/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run #1: 06/27/25 01:52, #2: 06/27/25 15:45, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	Run #	Flags
PFBA*	Not detected	9.9	2.0	ng/L	1.97	Run #1	r
PFPeA*	Not detected	3.9	1.2	ng/L	1.97	Run #1	r
4:2 FTSA*	Not detected	2.0	0.20	ng/L	1.97	Run #1	Ir
PFHxA*	54	2.0	1.2	ng/L	1.97	Run #1	r
PFBS*	42	2.0	0.59	ng/L	1.97	Run #1	r
PFHpA*	14	2.0	0.79	ng/L	1.97	Run #1	r
PFPeS*	96	2.0	1.8	ng/L	1.97	Run #1	r
6:2 FTSA*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
PFOA*	46	2.0	0.79	ng/L	1.97	Run #1	r
PFHxS*	360	2.0	0.99	ng/L	1.97	Run #1	r
PFHxS-LN*	300	2.0	0.99	ng/L	1.97	Run #1	r
PFHxS-BR*	56	2.0	0.99	ng/L	1.97	Run #1	r
PFNA*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
8:2 FTSA*	Not detected	2.0	1.2	ng/L	1.97	Run #1	r
PFHpS*	96	2.0	0.79	ng/L	1.97	Run #1	r
PFDA*	Not detected	2.0	1.2	ng/L	1.97	Run #1	r
N-MeFOSAA*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
EtFOSAA*	Not detected	3.9	0.99	ng/L	1.97	Run #1	r
PFOS*	7,000	2.0	0.79	ng/L	1.97	Run #1	r
PFOS-LN*	4,100	2.0	0.79	ng/L	1.97	Run #1	r
PFOS-BR*	3,100	2.0	0.79	ng/L	1.97	Run #1	r
PFUnDA*	Not detected	2.0	0.79	ng/L	1.97	Run #1	r
PFNS*	4.3	2.0	0.99	ng/L	1.97	Run #1	r
PFDoDA*	Not detected	2.0	0.59	ng/L	1.97	Run #1	r
PFDS*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
PFTrDA*	Not detected	2.0	0.79	ng/L	1.97	Run #1	r
FOSA*	3.9	2.0	0.79	ng/L	1.97	Run #1	r
PFTeDA*	Not detected	3.9	0.59	ng/L	1.97	Run #1	r
11Cl-PF3OUdS*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
9Cl-PF3ONS*	Not detected	2.0	0.99	ng/L	1.97	Run #1	r
ADONA*	Not detected	2.0	0.59	ng/L	1.97	Run #1	r
HFPO-DA*	Not detected	9.9	2.0	ng/L	1.97	Run #1	r
FHpPA (7:3 FTCA)*	Not detected	9.9	7.9	ng/L	1.97	Run #1	r
FPePA (5:3 FTCA)*	Not detected	9.9	3.9	ng/L	1.97	Run #1	r
FPrPA (3:3 FTCA)*	Not detected	9.9	3.9	ng/L	1.97	Run #1	r

r-This analyte is being reported as the best result from multiple runs
I-Matrix interference with internal standard

Lab Sample ID: S75991.01 (continued)
Sample Tag: 02-PRCC-25-INF-20250624

34 PFAs, Method: ASTMD7979-19M, Run #1: 06/27/25 01:52, #2: 06/27/25 15:45, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	Run #	Flags
PFBSA*	Not detected	2.0	0.59	ng/L	1.97	Run #1	r
PFECHS*	11,000	9.8	3.9	ng/L	9.84	Run #2	Yr
PFHxSA*	Not detected	2.0	0.59	ng/L	1.97	Run #1	r

r-This analyte is being reported as the best result from multiple runs
Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S75991.02
Sample Tag: 02-PRCC-25-PRIM-20250624
Collected Date/Time: 06/24/2025 12:54
Matrix: Wastewater
COC Reference: 57828

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.77/6.48/11	ASTMD7979-19M	06/26/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run Date: 06/27/25 02:12, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.08	375-22-4	
PFPeA*	Not detected	4.2	1.2	ng/L	2.08	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.08	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.08	307-24-4	
PFBS*	Not detected	2.1	0.62	ng/L	2.08	375-73-5	
PFHpA*	Not detected	2.1	0.83	ng/L	2.08	375-85-9	
PFPeS*	Not detected	2.1	1.9	ng/L	2.08	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.08	27619-97-2	
PFOA*	Not detected	2.1	0.83	ng/L	2.08	335-67-1	
PFHxS*	Not detected	2.1	1.0	ng/L	2.08	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.08	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.08	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.08	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.08	39108-34-4	
PFHpS*	Not detected	2.1	0.83	ng/L	2.08	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.08	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.08	2355-31-9	
EtFOSAA*	Not detected	4.2	1.0	ng/L	2.08	2991-50-6	
PFOS*	6.8	2.1	0.83	ng/L	2.08	1763-23-1	
PFOS-LN*	5.7	2.1	0.83	ng/L	2.08	1763-23-1-LN	
PFOS-BR*	Not detected	2.1	0.83	ng/L	2.08	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.83	ng/L	2.08	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.08	68259-12-1	
PFDoDA*	Not detected	2.1	0.62	ng/L	2.08	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.08	335-77-3	
PFTrDA*	Not detected	2.1	0.83	ng/L	2.08	72629-94-8	
FOSA*	Not detected	2.1	0.83	ng/L	2.08	754-91-6	
PFTeDA*	Not detected	4.2	0.62	ng/L	2.08	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.08	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.08	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.08	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.08	13252-13-6	
FHpPA (7:3 FTCA)*	Not detected	10	8.3	ng/L	2.08	812-70-4	
FPePA (5:3 FTCA)*	Not detected	10	4.2	ng/L	2.08	914637-49-3	
FPrPA (3:3 FTCA)*	Not detected	10	4.2	ng/L	2.08	356-02-5	
PFBSA*	Not detected	2.1	0.62	ng/L	2.08	30334-69-1	
PFECHS*	1.3	2.1	0.83	ng/L	2.08	80988-54-1	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S75991.02 (continued)
Sample Tag: 02-PRCC-25-PRIM-20250624

34 PFAs, Method: ASTMD7979-19M, Run Date: 06/27/25 02:12, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFHxSA*	Not detected	2.1	0.62	ng/L	2.08	41997-13-1	

Merit Laboratories Login Checklist

Lab Set ID: S75991
Client: RAMBOLL (Ramboll Americas)
Project: RACER Coldwater Road
Submitted: 06/24/2025 13:50 Login User: MMC

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.4
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC, TOX, DO or Alkalinity bottles contain	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

57828

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: 313-373-024 FAX NO.: P.O. NO.: 1940011180 Task 37
E-MAIL ADDRESS: Kevin.Schneider@Ramboll.com; Clifford.Yantz@Ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (7515)	SPECIAL INSTRUCTIONS/NOTES
75991.01	6/24/25	1244	02-PRCC-25-INF-20250624	ww	3	X							X	low level reporting with estimated values
.02	6/24/25	1254	02-PRCC-25-PRIM-20250624	ww	3	X							X	
														34 PFAS LIST

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Clifford Yantz Ramboll	6/24/25	1300
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	6/24/25	1350
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	6/24/25	1350
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
M Chilcote	6/24/25	1350

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Quality Control Report

Report ID: QC-S75991-01
Generated on 07/10/2025

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S75991.01-S75991.02
Project: RACER Coldwater Road
Submitted Date/Time: 06/24/2025 13:50
Sampled by: Unknown
P.O. #: 194011180 TASK37

QC Report Sections

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S75991.01
Sample Tag: 02-PRCC-25-INF-20250624
Collected Date/Time: 06/24/2025 12:44
Matrix: Wastewater
COC Reference: 57828

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	06/27/25 01:52	AK250626W1	PF250626W1	Yes	BLK/LCS/LCSD/MS/DU
34 PFAs (Replicate 01)	ASTMD7979-19M	06/27/25 15:45	AK250627RR	PF250626W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Analysis Summary

Lab Sample ID: S75991.02
Sample Tag: 02-PRCC-25-PRIM-20250624
Collected Date/Time: 06/24/2025 12:54
Matrix: Wastewater
COC Reference: 57828

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	06/27/25 02:12	AK250626W1	PF250626W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Prep Batch Summary

Organics - Volatiles, Prep Batch ID: PF250626W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S75991.01	34 PFAs	ASTMD7979-19M	06/27/25 01:52	AK250626W1
S75991.01	34 PFAs (Replicate 01)	ASTMD7979-19M	06/27/25 15:45	AK250627RR
S75991.02	34 PFAs	ASTMD7979-19M	06/27/25 02:12	AK250626W1

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S75991.01

Sample Tag: 02-PRCC-25-INF-20250624

Collected Date/Time: 06/24/2025 12:44

Matrix: Wastewater

COC Reference: 57828

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250626W1, Run Date: 06/27/2025 01:52, Matrix: WW, Dilution: 1.97

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA	*	**155.0**	50.0	150.0
M2-6:2FTSA		**127.1**	50.0	150.0
M2-8:2FTSA		**76.8**	50.0	150.0
M2PFTeDA		**119.2**	12.0	218.0
M3PFBS		**134.5**	50.0	150.0
M3PFHxS		**116.2**	50.0	150.0
M4PFHpA		**112.4**	50.0	150.0
M5PFHxA		**106.1**	50.0	150.0
M5PFPeA		**108.7**	50.0	150.0
M6PFDA		**98.0**	50.0	150.0
M7PFUnDA		**100.0**	50.0	150.0
M8FOSA		**96.0**	50.0	150.0
M8PFOA		**107.3**	50.0	150.0
M8PFOS		**97.4**	50.0	150.0
M9-PFNA		**98.9**	50.0	150.0
MPFBA		**82.6**	50.0	150.0
MPFDoDA		**101.2**	50.0	150.0
d3N-MeFOSAA		**90.9**	50.0	150.0
d5EtFOSAA		**92.6**	50.0	150.0
MHFPO-DA		**102.0**	50.0	150.0
d-N-EtFOSA-M		**111.6**	50.0	150.0
d-N-MeFOSA-M		**109.7**	50.0	150.0
d7-N-MeFOSE-M		**99.6**	50.0	150.0
d9-N-EtFOSE-M		**95.0**	50.0	150.0

QC Report - Internal Standards per Lab Sample

Organics - Volatiles, Analysis: 34 PFAs (Replicate 01)

Run in Batch: AK250627RR, Run Date: 06/27/2025 15:45, Matrix: WW, Dilution: 9.84

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**108.7**	50.0	150.0
M2-6:2FTSA		**126.7**	50.0	150.0
M2-8:2FTSA		**96.8**	50.0	150.0
M2PFTeDA		**134.4**	12.0	218.0
M3PFBS		**119.1**	50.0	150.0
M3PFHxS		**122.3**	50.0	150.0
M4PFHpA		**120.4**	50.0	150.0
M5PFHxA		**109.2**	50.0	150.0
M5PFPeA		**124.7**	50.0	150.0
M6PFDA		**111.0**	50.0	150.0
M7PFUnDA		**118.2**	50.0	150.0
M8FOSA		**111.2**	50.0	150.0
M8PFOA		**127.4**	50.0	150.0
M8PFOS		**124.5**	50.0	150.0
M9-PFNA		**109.5**	50.0	150.0
MPFBA		**96.7**	50.0	150.0
MPFDoDA		**123.0**	50.0	150.0
d3N-MeFOSAA		**119.1**	50.0	150.0
d5EtFOSAA		**112.4**	50.0	150.0
MHFPO-DA		**136.4**	50.0	150.0
d-N-EtFOSA-M		**113.7**	50.0	150.0
d-N-MeFOSA-M		**115.8**	50.0	150.0
d7-N-MeFOSE-M		**115.4**	50.0	150.0
d9-N-EtFOSE-M		**123.3**	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S75991.02

Sample Tag: 02-PRCC-25-PRIM-20250624

Collected Date/Time: 06/24/2025 12:54

Matrix: Wastewater

COC Reference: 57828

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250626W1, Run Date: 06/27/2025 02:12, Matrix: WW, Dilution: 2.08

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA		**93.9**	50.0	150.0
M2-6:2FTSA		**99.8**	50.0	150.0
M2-8:2FTSA		**100.1**	50.0	150.0
M2PFTeDA		**105.0**	12.0	218.0
M3PFBS		**101.4**	50.0	150.0
M3PFHxS		**108.8**	50.0	150.0
M4PFHpA		**99.1**	50.0	150.0
M5PFHxA		**119.3**	50.0	150.0
M5PFPeA		**119.0**	50.0	150.0
M6PFDA		**94.8**	50.0	150.0
M7PFUnDA		**105.0**	50.0	150.0
M8FOSA		**113.0**	50.0	150.0
M8PFOA		**100.9**	50.0	150.0
M8PFOS		**103.9**	50.0	150.0
M9-PFNA		**97.3**	50.0	150.0
MPFBA		**102.9**	50.0	150.0
MPFDoDA		**107.7**	50.0	150.0
d3N-MeFOSAA		**100.4**	50.0	150.0
d5EtFOSAA		**102.7**	50.0	150.0
MHFPO-DA		**107.6**	50.0	150.0
d-N-EtFOSA-M		**108.2**	50.0	150.0
d-N-MeFOSA-M		**111.1**	50.0	150.0
d7-N-MeFOSE-M		**96.6**	50.0	150.0
d9-N-EtFOSE-M		**105.5**	50.0	150.0

QC Report - Internal Standards per QC Sample

Organics - Volatiles, Prep Batch ID: PF250626W1

QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK)

Lab Sample ID: AK250626W1.BLK250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**96.2**	50.0	150.0
M2-6:2FTSA		**97.9**	50.0	150.0
M2-8:2FTSA		**100.8**	50.0	150.0
M2PFTeDA		**98.4**	12.0	218.0
M3PFBS		**100.4**	50.0	150.0
M3PFHxS		**97.5**	50.0	150.0
M4PFHpA		**106.3**	50.0	150.0
M5PFHxA		**105.0**	50.0	150.0
M5PFPeA		**112.2**	50.0	150.0
M6PFDA		**84.0**	50.0	150.0
M7PFUnDA		**88.5**	50.0	150.0
M8FOSA		**96.9**	50.0	150.0
M8PFOA		**88.8**	50.0	150.0
M8PFOS		**105.5**	50.0	150.0
M9-PFNA		**94.1**	50.0	150.0
MPFBA		**89.7**	50.0	150.0
MPFDoDA		**89.3**	50.0	150.0
d3N-MeFOSAA		**88.4**	50.0	150.0
d5EtFOSAA		**79.3**	50.0	150.0
MHFPO-DA		**105.1**	50.0	150.0
d-N-EtFOSA-M		**92.2**	50.0	150.0
d-N-MeFOSA-M		**93.6**	50.0	150.0
d7-N-MeFOSE-M		**88.7**	50.0	150.0
d9-N-EtFOSE-M		**94.6**	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample (LCS)

Lab Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:12, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA		**90.0**	50.0	150.0
M2-6:2FTSA		**86.3**	50.0	150.0
M2-8:2FTSA		**98.9**	50.0	150.0
M2PFTeDA		**86.8**	12.0	218.0
M3PFBS		**101.3**	50.0	150.0
M3PFHxS		**98.1**	50.0	150.0
M4PFHpA		**94.1**	50.0	150.0
M5PFHxA		**101.4**	50.0	150.0
M5PFPeA		**115.0**	50.0	150.0
M6PFDA		**73.6**	50.0	150.0
M7PFUnDA		**79.5**	50.0	150.0
M8FOSA		**98.1**	50.0	150.0
M8PFOA		**86.7**	50.0	150.0
M8PFOS		**93.7**	50.0	150.0
M9-PFNA		**99.3**	50.0	150.0
MPFBA		**91.2**	50.0	150.0
MPFDoDA		**86.8**	50.0	150.0
d3N-MeFOSAA		**81.5**	50.0	150.0
d5EtFOSAA		**84.0**	50.0	150.0
MHFPO-DA		**107.3**	50.0	150.0
d-N-EtFOSA-M		**87.4**	50.0	150.0
d-N-MeFOSA-M		**89.6**	50.0	150.0
d7-N-MeFOSE-M		**85.1**	50.0	150.0
d9-N-EtFOSE-M		**100.2**	50.0	150.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250626W1.LCSD250626, Parent Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:32, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**95.5**	50.0	150.0
M2-6:2FTSA		**98.3**	50.0	150.0
M2-8:2FTSA		**105.4**	50.0	150.0
M2PFTeDA		**100.1**	12.0	218.0
M3PFBS		**102.6**	50.0	150.0
M3PFHxS		**97.2**	50.0	150.0
M4PFHpA		**106.5**	50.0	150.0
M5PFHxA		**113.1**	50.0	150.0
M5PFPeA		**116.6**	50.0	150.0
M6PFDA		**90.8**	50.0	150.0
M7PFUnDA		**89.6**	50.0	150.0
M8FOSA		**107.2**	50.0	150.0
M8PFOA		**95.0**	50.0	150.0
M8PFOS		**103.8**	50.0	150.0
M9-PFNA		**91.5**	50.0	150.0
MPFBA		**92.6**	50.0	150.0
MPFDoDA		**90.0**	50.0	150.0
d3N-MeFOSAA		**84.4**	50.0	150.0
d5EtFOSAA		**91.4**	50.0	150.0
MHFPO-DA		**98.2**	50.0	150.0
d-N-EtFOSA-M		**100.4**	50.0	150.0
d-N-MeFOSA-M		**100.8**	50.0	150.0
d7-N-MeFOSE-M		**88.2**	50.0	150.0
d9-N-EtFOSE-M		**90.9**	50.0	150.0

Matrix Spike (MS)

Lab Sample ID: AK250626W1.7603501M, Parent Sample ID: S76035.01

Run in Batch: AK250626W1, Run Date: 06/27/2025 02:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 2.14

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**95.1**	50.0	150.0
M2-6:2FTSA		**94.9**	50.0	150.0
M2-8:2FTSA		**124.9**	50.0	150.0
M2PFTeDA		**111.6**	12.0	218.0
M3PFBS		**97.8**	50.0	150.0
M3PFHxS		**105.2**	50.0	150.0
M4PFHpA		**104.3**	50.0	150.0
M5PFHxA		**104.4**	50.0	150.0
M5PFPeA		**112.9**	50.0	150.0
M6PFDA		**91.9**	50.0	150.0
M7PFUnDA		**100.1**	50.0	150.0
M8FOSA		**105.5**	50.0	150.0
M8PFOA		**104.0**	50.0	150.0
M8PFOS		**108.0**	50.0	150.0
M9-PFNA		**94.9**	50.0	150.0
MPFBA		**102.8**	50.0	150.0
MPFDoDA		**105.0**	50.0	150.0
d3N-MeFOSAA		**101.4**	50.0	150.0
d5EtFOSAA		**94.5**	50.0	150.0
MHFPO-DA		**103.4**	50.0	150.0
d-N-EtFOSA-M		**105.4**	50.0	150.0
d-N-MeFOSA-M		**107.6**	50.0	150.0
d7-N-MeFOSE-M		**102.1**	50.0	150.0
d9-N-EtFOSE-M		**103.5**	50.0	150.0

Duplicate (DUP)

Lab Sample ID: AK250626W1.7603702D, Parent Sample ID: S76037.02

Run in Batch: AK250626W1, Run Date: 06/27/2025 03:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1.98

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**93.8**	50.0	150.0
M2-6:2FTSA		**90.3**	50.0	150.0
M2-8:2FTSA		**91.9**	50.0	150.0
M2PFTeDA		**144.6**	12.0	218.0
M3PFBS		**118.1**	50.0	150.0
M3PFHxS		**113.1**	50.0	150.0
M4PFHpA		**113.3**	50.0	150.0
M5PFHxA		**121.9**	50.0	150.0
M5PFPeA		**139.0**	50.0	150.0
M6PFDA		**99.0**	50.0	150.0
M7PFUnDA		**95.5**	50.0	150.0
M8FOSA		**108.7**	50.0	150.0
M8PFOA		**99.3**	50.0	150.0
M8PFOS		**111.4**	50.0	150.0
M9-PFNA		**94.0**	50.0	150.0
MPFBA		**102.0**	50.0	150.0
MPFDoDA		**108.5**	50.0	150.0
d3N-MeFOSAA		**94.0**	50.0	150.0
d5EtFOSAA		**89.3**	50.0	150.0
MHFPO-DA		**101.6**	50.0	150.0
d-N-EtFOSA-M		**119.1**	50.0	150.0
d-N-MeFOSA-M		**108.3**	50.0	150.0
d7-N-MeFOSE-M		**106.9**	50.0	150.0
d9-N-EtFOSE-M		**98.0**	50.0	150.0

Organics - Volatiles, Prep Batch ID: PF250626W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK)

Lab Sample ID: AK250626W1.BLK250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	10	ng/l
PFMPA		ND	2	ng/l
FPrPA (3:3 FTCA)		ND	10	ng/l
PFPrS		ND	2	ng/l
PFPeA		ND	4	ng/l
PFMBA		ND	2	ng/l
4:2 FTSA		ND	2	ng/l
NFDHA		ND	2	ng/l
PFHxA		ND	2	ng/l
PFBS		ND	2	ng/l
HFPO-DA		ND	10	ng/l
FPePA (5:3 FTCA)		ND	10	ng/l
PFEESA		ND	2	ng/l
PFHpA		ND	2	ng/l
PFPeS		ND	2	ng/l
ADONA		ND	2	ng/l
6:2 FTSA		ND	2	ng/l
PFBSA		ND	2	ng/l
PFOA		ND	2	ng/l
PFHxS-BR		ND	2	ng/l
PFHxS		ND	2	ng/l
PFHxS-LN		ND	2	ng/l
FHpPA (7:3 FTCA)		ND	10	ng/l
PFNA		ND	2	ng/l
PFECHS		ND	2	ng/l
8:2 FTSA		ND	2	ng/l
PFHpS		ND	2	ng/l
N-MeFOSAA		ND	2	ng/l
PFDA		ND	2	ng/l
PFOS-BR		ND	2	ng/l
PFOS		ND	2	ng/l
EtFOSAA		ND	4	ng/l
PFOS-LN		ND	2	ng/l
PFUnDA		ND	2	ng/l
PFHxSA		ND	2	ng/l
9CL-PF3ONS		ND	2	ng/l
PFNS		ND	2	ng/l
PFDoDA		ND	2	ng/l
PFDS		ND	2	ng/l
PFTrDA		ND	2	ng/l
11CL-PF3OUdS		ND	2	ng/l
FOSA		ND	2	ng/l
PFTeDA		ND	4	ng/l
PFDOS		ND	6	ng/l
NMeFOSE		ND	4	ng/l
NMeFOSAM		ND	2	ng/l

Organics - Volatiles, Prep Batch ID: PF250626W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK) (continued)

Lab Sample ID: AK250626W1.BLK250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
NEtFOSE		ND	4	ng/l
NEtFOSAM		ND	2	ng/l

Laboratory Control Sample (LCS)

Lab Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:12, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		109.4	70.0	130.0
PFMPA		107.6	70.0	130.0
FPrPA (3:3 FTCA)		95.6	70.0	130.0
PFPrS		108.4	70.0	130.0
PFPeA		113.8	70.0	130.0
PFMBA		100.8	70.0	130.0
4:2 FTSA		111.2	70.0	130.0
NFDHA		115.2	70.0	130.0
PFHxA		115.0	70.0	130.0
PFBS		95.8	70.0	130.0
HFPO-DA		95.4	70.0	130.0
FPePA (5:3 FTCA)		90.8	70.0	130.0
PFEESA		108.2	70.0	130.0
PFHpA		96.6	70.0	130.0
PFPeS		108.8	70.0	130.0
ADONA		100.0	70.0	130.0
6:2 FTSA		120.8	70.0	130.0
PFBSA		105.6	70.0	130.0
PFOA		104.4	70.0	130.0
PFHxS		126.8	70.0	130.0
FHpPA (7:3 FTCA)		95.8	70.0	130.0
PFNA		112.2	70.0	130.0
PFECHS		112.6	70.0	130.0
8:2 FTSA		100.2	70.0	130.0
PFHpS		100.6	70.0	130.0
N-MeFOSAA		118.4	70.0	130.0
PFDA		112.0	70.0	130.0
PFOS		114.0	70.0	130.0
EtFOSAA		114.8	70.0	130.0
PFUnDA		118.6	70.0	130.0
PFHxSA		102.6	70.0	130.0
9CL-PF3ONS		110.0	70.0	130.0
PFNS		121.8	70.0	130.0
PFDoDA		106.6	70.0	130.0
PFDS		111.0	70.0	130.0
PFTrDA		98.0	70.0	130.0
11CL-PF3OUdS		116.0	70.0	130.0
FOSA		110.8	70.0	130.0
PFTeDA		100.4	70.0	130.0

Organics - Volatiles, Prep Batch ID: PF250626W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:12, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFDOS		122.6	70.0	130.0
NMeFOSE		111.2	70.0	130.0
NMeFOSAM	*	137.0	70.0	130.0
NEtFOSE		98.0	70.0	130.0
NEtFOSAM		117.2	70.0	130.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250626W1.LCSD250626, Parent Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:32, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		100.0	70.0	130.0	9.0	30.0
PFMPA		94.2	70.0	130.0	13.3	30.0
FPrPA (3:3 FTCA)		94.2	70.0	130.0	1.5	30.0
PFPrS		105.6	70.0	130.0	2.6	30.0
PFPeA		107.4	70.0	130.0	5.8	30.0
PFMBA		88.0	70.0	130.0	13.6	30.0
4:2 FTSA		111.8	70.0	130.0	0.5	30.0
NFDHA		103.0	70.0	130.0	11.2	30.0
PFHxA		102.2	70.0	130.0	11.8	30.0
PFBS		93.2	70.0	130.0	2.8	30.0
HFPO-DA		107.6	70.0	130.0	12.0	30.0
FPePA (5:3 FTCA)		76.6	70.0	130.0	17.0	30.0
PFEESA		101.4	70.0	130.0	6.5	30.0
PFHpA		80.6	70.0	130.0	18.1	30.0
PFPeS		107.4	70.0	130.0	1.3	30.0
ADONA		92.8	70.0	130.0	7.5	30.0
6:2 FTSA		106.6	70.0	130.0	12.5	30.0
PFBSA		95.2	70.0	130.0	10.4	30.0
PFOA		94.2	70.0	130.0	10.3	30.0
PFHxS		106.6	70.0	130.0	17.3	30.0
FHpPA (7:3 FTCA)		101.6	70.0	130.0	5.9	30.0
PFNA		114.6	70.0	130.0	2.1	30.0
PFECHS		108.6	70.0	130.0	3.6	30.0
8:2 FTSA		91.4	70.0	130.0	9.2	30.0
PFHpS		116.2	70.0	130.0	14.4	30.0
N-MeFOSAA		118.2	70.0	130.0	0.2	30.0
PFDA		100.0	70.0	130.0	11.3	30.0
PFOS		107.8	70.0	130.0	5.6	30.0
EtFOSAA		97.4	70.0	130.0	16.4	30.0
PFUnDA		105.2	70.0	130.0	12.0	30.0
PFHxSA		96.8	70.0	130.0	5.8	30.0
9CL-PF3ONS		110.4	70.0	130.0	0.4	30.0
PFNS		105.8	70.0	130.0	14.1	30.0
PFDoDA		111.4	70.0	130.0	4.4	30.0
PFDS		112.4	70.0	130.0	1.3	30.0
PFTrDA		101.4	70.0	130.0	3.4	30.0

Organics - Volatiles, Prep Batch ID: PF250626W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: AK250626W1.LCSD250626, Parent Sample ID: AK250626W1.LCS250626

Run in Batch: AK250626W1, Run Date: 06/26/2025 23:32, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
11CL-PF3OUdS		113.8	70.0	130.0	1.9	30.0
FOSA		98.4	70.0	130.0	11.9	30.0
PFTeDA		97.2	70.0	130.0	3.2	30.0
PFDOS		104.2	70.0	130.0	16.2	30.0
NMeFOSE		104.6	70.0	130.0	6.1	30.0
NMeFOSAM		111.2	70.0	130.0	20.8	30.0
NEtFOSE		120.4	70.0	130.0	20.5	30.0
NEtFOSAM		102.8	70.0	130.0	13.1	30.0

Matrix Spike (MS)

Lab Sample ID: AK250626W1.7603501M, Parent Sample ID: S76035.01

Run in Batch: AK250626W1, Run Date: 06/27/2025 02:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 2.14

Analyte	Flags	% Rec	LCL	UCL
PFBA		93.5	70.0	130.0
PFPeA		102.8	70.0	130.0
4:2 FTSA		93.5	70.0	130.0
PFHxA		112.1	70.0	130.0
PFBS		102.8	70.0	130.0
HFPO-DA		90.7	70.0	130.0
PFHpA		86.9	70.0	130.0
PFPeS		121.5	70.0	130.0
ADONA		84.1	70.0	130.0
6:2 FTSA		89.7	70.0	130.0
PFOA		92.5	70.0	130.0
PFHxS		102.8	70.0	130.0
PFNA		112.1	70.0	130.0
8:2 FTSA		93.5	70.0	130.0
PFHpS		102.8	70.0	130.0
N-MeFOSAA		87.9	70.0	130.0
PFDA		102.8	70.0	130.0
PFOS		112.1	70.0	130.0
EtFOSAA		102.8	70.0	130.0
PFUnDA		93.5	70.0	130.0
9CL-PF3ONS		102.8	70.0	130.0
PFNS		112.1	70.0	130.0
PFDoDA		89.7	70.0	130.0
PFDS		112.1	70.0	130.0
PFTrDA		93.5	70.0	130.0
11CL-PF3OUdS		102.8	70.0	130.0
FOSA		102.8	70.0	130.0
PFTeDA		102.8	70.0	130.0

Organics - Volatiles, Prep Batch ID: PF250626W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Duplicate (DUP)

Lab Sample ID: AK250626W1.7603702D, Parent Sample ID: S76037.02

Run in Batch: AK250626W1, Run Date: 06/27/2025 03:52, Prep Date: 06/26/2025, Matrix: WW, Dilution: 1.98

Analyte	Flags	RPD	RPD CL
PFBA		NC	30.0
PFPeA		NC	30.0
4:2 FTSA		NC	30.0
PFHxA		9.5	30.0
PFBS		NC	30.0
PFHpA		10.0	30.0
PFPeS		NC	30.0
6:2 FTSA		8.7	30.0
PFOA		NC	30.0
PFHxS		NC	30.0
PFHxS-LN		NC	30.0
PFHxS-BR		NC	30.0
PFNA		NC	30.0
8:2 FTSA		NC	30.0
PFHpS		NC	30.0
PFDA		NC	30.0
N-MeFOSAA		NC	30.0
EtFOSAA		NC	30.0
PFOS		NC	30.0
PFOS-LN		NC	30.0
PFOS-BR		NC	30.0
PFUnDA		NC	30.0
PFNS		NC	30.0
PFDoDA		NC	30.0
PFDS		NC	30.0
PFTrDA		NC	30.0
FOSA		NC	30.0
PFTeDA		NC	30.0
11CL-PF3OUdS		NC	30.0
9CL-PF3ONS		NC	30.0
ADONA		NC	30.0
HFPO-DA		NC	30.0

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

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CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: 313-373-024 FAX NO.: P.O. NO.: 1940011180 Task 37
E-MAIL ADDRESS: Kevin.Schneider@Ramboll.com; Clifford.Yantz@Ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (7515)	SPECIAL INSTRUCTIONS/NOTES
75991.01	6/24/25	1244	02-PRCC-25-INF-20250624	ww	3	X							X	low level reporting with estimated values
.02	6/24/25	1254	02-PRCC-25-PRIM-20250624	ww	3	X							X	
														34 PFAS LIST

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Clifford Yantz Ramboll	6/24/25	1300
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	6/24/25	1350
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	6/24/25	1350
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
M Chilcote	6/24/25	1350

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S76159.01(01)
Generated on 07/14/2025

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Addtional Contacts: Kevin Schneider, Nicole Pitkorchemny

Report Summary

Lab Sample ID(s): S76159.01-S76159.04
Project: RACER Coldwater Road
Collected Date(s): 06/27/2025
Submitted Date/Time: 06/27/2025 13:45
Sampled by: Kevin Schneider
P.O. #: 194011180 TASK37

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Starred (*) analytes are not NY NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.
All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.
For a specific list of accredited analytes, please feel free to contact the laboratory or visit https://www.meritlabs.com/certifications.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
ASTMD7979-19M	ASTM Method D7979 - 19 Modified (Isotopic Dilution)

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6
FHpPA (7:3 FTCA)	3-Perfluoroheptyl propanoic acid	812-70-4
FPePA (5:3 FTCA)	3-Perfluoropentyl propanoic acid	914637-49-3
FPrPA (3:3 FTCA)	3-Perfluoropropyl propanoic acid	356-02-5
PFBSA	Perfluorobutanesulfonamide	30334-69-1
PFECHS	Perfluoro-4-ethylcyclohexanesulfonate	80988-54-1
PFHxSA	Perfluorohexanesulfonamide	41997-13-1

Analytical Laboratory Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S76159.01	02-PRCC-25-EFF-180-20250627	Wastewater	06/27/25 09:10
S76159.02	02-PRCC-25-MID-2-180-20250627	Wastewater	06/27/25 09:12
S76159.03	02-PRCC-25-MID-1-180-20250627	Wastewater	06/27/25 09:14
S76159.04	02-PRCC-25-PRIM-180-20250627	Wastewater	06/27/25 09:16

Analytical Laboratory Report

Lab Sample ID: S76159.01
Sample Tag: 02-PRCC-25-EFF-180-20250627
Collected Date/Time: 06/27/2025 09:10
Matrix: Wastewater
COC Reference: 043447

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.32/6.48/12	ASTMD7979-19M	07/01/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 19:55, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.05	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.05	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.05	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.05	307-24-4	
PFBS*	Not detected	2.1	0.62	ng/L	2.05	375-73-5	
PFHpA*	Not detected	2.1	0.82	ng/L	2.05	375-85-9	
PFPeS*	Not detected	2.1	1.8	ng/L	2.05	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.05	27619-97-2	
PFOA*	Not detected	2.1	0.82	ng/L	2.05	335-67-1	
PFHxS*	Not detected	2.1	1.0	ng/L	2.05	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.05	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.05	39108-34-4	
PFHpS*	Not detected	2.1	0.82	ng/L	2.05	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.05	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.05	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.05	2991-50-6	
PFOS*	0.88	2.1	0.82	ng/L	2.05	1763-23-1	J
PFOS-LN*	Not detected	2.1	0.82	ng/L	2.05	1763-23-1-LN	
PFOS-BR*	Not detected	2.1	0.82	ng/L	2.05	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.82	ng/L	2.05	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.05	68259-12-1	
PFDoDA*	Not detected	2.1	0.62	ng/L	2.05	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.05	335-77-3	
PFTrDA*	Not detected	2.1	0.82	ng/L	2.05	72629-94-8	
FOSA*	Not detected	2.1	0.82	ng/L	2.05	754-91-6	
PFTeDA*	Not detected	4.1	0.62	ng/L	2.05	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.05	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.05	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.05	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.05	13252-13-6	
FHpPA (7:3 FTCA)*	Not detected	10	8.2	ng/L	2.05	812-70-4	
FPePA (5:3 FTCA)*	Not detected	10	4.1	ng/L	2.05	914637-49-3	
FPrPA (3:3 FTCA)*	Not detected	10	4.1	ng/L	2.05	356-02-5	
PFBSA*	Not detected	2.1	0.62	ng/L	2.05	30334-69-1	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S76159.01 (continued)

Sample Tag: 02-PRCC-25-EFF-180-20250627

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 19:55, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFECHS*	Not detected	2.1	0.82	ng/L	2.05	80988-54-1	
PFHxSA*	Not detected	2.1	0.62	ng/L	2.05	41997-13-1	

Analytical Laboratory Report

Lab Sample ID: S76159.02
Sample Tag: 02-PRCC-25-MID-2-180-20250627
Collected Date/Time: 06/27/2025 09:12
Matrix: Wastewater
COC Reference: 043447

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.00/6.48/11	ASTMD7979-19M	07/01/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 20:35, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10.0	2.0	ng/L	1.99	375-22-4	
PFPeA*	Not detected	4.0	1.2	ng/L	1.99	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	1.99	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	1.99	307-24-4	
PFBS*	Not detected	2.0	0.60	ng/L	1.99	375-73-5	
PFHpA*	Not detected	2.0	0.80	ng/L	1.99	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	1.99	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.00	ng/L	1.99	27619-97-2	
PFOA*	Not detected	2.0	0.80	ng/L	1.99	335-67-1	
PFHxS*	Not detected	2.0	1.00	ng/L	1.99	355-46-4	
PFHxS-LN*	Not detected	2.0	1.00	ng/L	1.99	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	1.00	ng/L	1.99	355-46-4-BR	
PFNA*	Not detected	2.0	1.00	ng/L	1.99	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	1.99	39108-34-4	
PFHpS*	Not detected	2.0	0.80	ng/L	1.99	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	1.99	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.00	ng/L	1.99	2355-31-9	
EtFOSAA*	Not detected	4.0	1.00	ng/L	1.99	2991-50-6	
PFOS*	Not detected	2.0	0.80	ng/L	1.99	1763-23-1	
PFOS-LN*	Not detected	2.0	0.80	ng/L	1.99	1763-23-1-LN	
PFOS-BR*	Not detected	2.0	0.80	ng/L	1.99	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.80	ng/L	1.99	2058-94-8	
PFNS*	Not detected	2.0	1.00	ng/L	1.99	68259-12-1	
PFDoDA*	Not detected	2.0	0.60	ng/L	1.99	307-55-1	
PFDS*	Not detected	2.0	1.00	ng/L	1.99	335-77-3	
PFTrDA*	Not detected	2.0	0.80	ng/L	1.99	72629-94-8	
FOSA*	Not detected	2.0	0.80	ng/L	1.99	754-91-6	
PFTeDA*	Not detected	4.0	0.60	ng/L	1.99	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.00	ng/L	1.99	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.00	ng/L	1.99	756426-58-1	
ADONA*	Not detected	2.0	0.60	ng/L	1.99	919005-14-4	
HFPO-DA*	Not detected	10.0	2.0	ng/L	1.99	13252-13-6	
FHpPA (7:3 FTCA)*	Not detected	10.0	8.0	ng/L	1.99	812-70-4	
FPePA (5:3 FTCA)*	Not detected	10.0	4.0	ng/L	1.99	914637-49-3	
FPrPA (3:3 FTCA)*	Not detected	10.0	4.0	ng/L	1.99	356-02-5	
PFBSA*	Not detected	2.0	0.60	ng/L	1.99	30334-69-1	
PFECHS*	Not detected	2.0	0.80	ng/L	1.99	80988-54-1	

Lab Sample ID: S76159.02 (continued)

Sample Tag: 02-PRCC-25-MID-2-180-20250627

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 20:35, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFHxSA*	Not detected	2.0	0.60	ng/L	1.99	41997-13-1	

Lab Sample ID: S76159.03
Sample Tag: 02-PRCC-25-MID-1-180-20250627
Collected Date/Time: 06/27/2025 09:14
Matrix: Wastewater
COC Reference: 043447

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.77/6.48/11	ASTMD7979-19M	07/01/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 20:55, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.08	375-22-4	
PFPeA*	Not detected	4.2	1.2	ng/L	2.08	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.08	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.08	307-24-4	
PFBS*	Not detected	2.1	0.62	ng/L	2.08	375-73-5	
PFHpA*	Not detected	2.1	0.83	ng/L	2.08	375-85-9	
PFPeS*	Not detected	2.1	1.9	ng/L	2.08	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.08	27619-97-2	
PFOA*	Not detected	2.1	0.83	ng/L	2.08	335-67-1	
PFHxS*	Not detected	2.1	1.0	ng/L	2.08	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.08	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.08	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.08	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.08	39108-34-4	
PFHpS*	Not detected	2.1	0.83	ng/L	2.08	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.08	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.08	2355-31-9	
EtFOSAA*	Not detected	4.2	1.0	ng/L	2.08	2991-50-6	
PFOS*	Not detected	2.1	0.83	ng/L	2.08	1763-23-1	
PFOS-LN*	Not detected	2.1	0.83	ng/L	2.08	1763-23-1-LN	
PFOS-BR*	Not detected	2.1	0.83	ng/L	2.08	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.83	ng/L	2.08	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.08	68259-12-1	
PFDoDA*	Not detected	2.1	0.62	ng/L	2.08	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.08	335-77-3	
PFTrDA*	Not detected	2.1	0.83	ng/L	2.08	72629-94-8	
FOSA*	Not detected	2.1	0.83	ng/L	2.08	754-91-6	
PFTeDA*	Not detected	4.2	0.62	ng/L	2.08	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.08	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.08	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.08	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.08	13252-13-6	
FHpPA (7:3 FTCA)*	Not detected	10	8.3	ng/L	2.08	812-70-4	
FPePA (5:3 FTCA)*	Not detected	10	4.2	ng/L	2.08	914637-49-3	
FPrPA (3:3 FTCA)*	Not detected	10	4.2	ng/L	2.08	356-02-5	
PFBSA*	Not detected	2.1	0.62	ng/L	2.08	30334-69-1	
PFECHS*	Not detected	2.1	0.83	ng/L	2.08	80988-54-1	

Lab Sample ID: S76159.03 (continued)

Sample Tag: 02-PRCC-25-MID-1-180-20250627

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 20:55, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFHxSA*	Not detected	2.1	0.62	ng/L	2.08	41997-13-1	

Analytical Laboratory Report

Lab Sample ID: S76159.04
Sample Tag: 02-PRCC-25-PRIM-180-20250627
Collected Date/Time: 06/27/2025 09:16
Matrix: Wastewater
COC Reference: 043447

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15mL Centrifuge Tube	None	Yes	4.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.38/6.48/12	ASTMD7979-19M	07/01/25 12:00	CED	

Organics

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 21:15, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.0	ng/L	2.03	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.03	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	2.03	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	2.03	307-24-4	
PFBS*	Not detected	2.0	0.61	ng/L	2.03	375-73-5	
PFHpA*	Not detected	2.0	0.81	ng/L	2.03	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	2.03	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.0	ng/L	2.03	27619-97-2	
PFOA*	Not detected	2.0	0.81	ng/L	2.03	335-67-1	
PFHxS*	Not detected	2.0	1.0	ng/L	2.03	355-46-4	
PFHxS-LN*	Not detected	2.0	1.0	ng/L	2.03	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	1.0	ng/L	2.03	355-46-4-BR	
PFNA*	Not detected	2.0	1.0	ng/L	2.03	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	2.03	39108-34-4	
PFHpS*	Not detected	2.0	0.81	ng/L	2.03	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	2.03	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.0	ng/L	2.03	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.03	2991-50-6	
PFOS*	2.2	2.0	0.81	ng/L	2.03	1763-23-1	
PFOS-LN*	1.5	2.0	0.81	ng/L	2.03	1763-23-1-LN	J
PFOS-BR*	Not detected	2.0	0.81	ng/L	2.03	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.81	ng/L	2.03	2058-94-8	
PFNS*	Not detected	2.0	1.0	ng/L	2.03	68259-12-1	
PFDoDA*	Not detected	2.0	0.61	ng/L	2.03	307-55-1	
PFDS*	Not detected	2.0	1.0	ng/L	2.03	335-77-3	
PFTrDA*	Not detected	2.0	0.81	ng/L	2.03	72629-94-8	
FOSA*	Not detected	2.0	0.81	ng/L	2.03	754-91-6	
PFTeDA*	Not detected	4.1	0.61	ng/L	2.03	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.0	ng/L	2.03	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.0	ng/L	2.03	756426-58-1	
ADONA*	Not detected	2.0	0.61	ng/L	2.03	919005-14-4	
HFPO-DA*	Not detected	10	2.0	ng/L	2.03	13252-13-6	
FHpPA (7:3 FTCA)*	Not detected	10	8.1	ng/L	2.03	812-70-4	
FPePA (5:3 FTCA)*	Not detected	10	4.1	ng/L	2.03	914637-49-3	
FPrPA (3:3 FTCA)*	Not detected	10	4.1	ng/L	2.03	356-02-5	
PFBSA*	Not detected	2.0	0.61	ng/L	2.03	30334-69-1	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S76159.04 (continued)

Sample Tag: 02-PRCC-25-PRIM-180-20250627

34 PFAs, Method: ASTMD7979-19M, Run Date: 07/01/25 21:15, Analyst: CED (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFECHS*	Not detected	2.0	0.81	ng/L	2.03	80988-54-1	
PFHxSA*	Not detected	2.0	0.61	ng/L	2.03	41997-13-1	

Merit Laboratories Login Checklist

Lab Set ID: S76159
Client: RAMBOLL (Ramboll Americas)
Project: RACER Coldwater Road
Submitted: 06/27/2025 13:45 Login User: PFD

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.7
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC, TOX, DO or Alkalinity bottles contain	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

043447

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yuntz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd.
CITY: Ann Arbor | STATE: MI | ZIP CODE: 48105
PHONE NO.: 313-333-0211 | FAX NO.: — | P.O. NO.: 1940011180 Task 37
E-MAIL ADDRESS: Kevin.Schneider@Ramboll.com; Clifford.Yuntz@Ramboll.com | QUOTE NO.: —

INVOICE TO

CONTACT NAME | X SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | FAX NO. | P.O. NO.

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (1535)	SPECIAL INSTRUCTIONS/NOTES
761581.01	6/27/25	910	02-PRCC-25-EFF-180-20250627	WW	3	X							X	low level Reporting with estimated values
.02	↓	912	02-PRCC-25-MID-2-180-20250627	WW	3	X							X	
.03		914	02-PRCC-25-MID-1-180-20250627	WW	3	X							X	
.04	↓	916	02-PRCC-25-PRIM-180-20250627	WW	3	X							X	
														34 PFAS List

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6/27/25	1126
RECEIVED BY: SIGNATURE/ORGANIZATION	6/27/25	1126
RELINQUISHED BY: SIGNATURE/ORGANIZATION	6/27/25	1345
RECEIVED BY: SIGNATURE/ORGANIZATION	6/27/25	1345

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Quality Control Report

Report ID: QC-S76159-01
Generated on 07/25/2025

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S76159.01-S76159.04
Project: RACER Coldwater Road
Submitted Date/Time: 06/27/2025 13:45
Sampled by: Kevin Schneider
P.O. #: 1940011180 TASK37

QC Report Sections

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S76159.01

Sample Tag: 02-PRCC-25-EFF-180-20250627

Collected Date/Time: 06/27/2025 09:10

Matrix: Wastewater

COC Reference: 043447

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	07/01/25 19:55	AK250701W1	PF250701W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Analysis Summary

Lab Sample ID: S76159.02

Sample Tag: 02-PRCC-25-MID-2-180-20250627

Collected Date/Time: 06/27/2025 09:12

Matrix: Wastewater

COC Reference: 043447

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	07/01/25 20:35	AK250701W1	PF250701W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Analysis Summary

Lab Sample ID: S76159.03

Sample Tag: 02-PRCC-25-MID-1-180-20250627

Collected Date/Time: 06/27/2025 09:14

Matrix: Wastewater

COC Reference: 043447

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	07/01/25 20:55	AK250701W1	PF250701W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Analysis Summary

Lab Sample ID: S76159.04

Sample Tag: 02-PRCC-25-PRIM-180-20250627

Collected Date/Time: 06/27/2025 09:16

Matrix: Wastewater

COC Reference: 043447

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
34 PFAs	ASTMD7979-19M	07/01/25 21:15	AK250701W1	PF250701W1	Yes	BLK/LCS/LCSD/MS/DU

QC Report - Prep Batch Summary

Organics - Volatiles, Prep Batch ID: PF250701W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S76159.01	34 PFAs	ASTMD7979-19M	07/01/25 19:55	AK250701W1
S76159.02	34 PFAs	ASTMD7979-19M	07/01/25 20:35	AK250701W1
S76159.03	34 PFAs	ASTMD7979-19M	07/01/25 20:55	AK250701W1
S76159.04	34 PFAs	ASTMD7979-19M	07/01/25 21:15	AK250701W1

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S76159.01

Sample Tag: 02-PRCC-25-EFF-180-20250627

Collected Date/Time: 06/27/2025 09:10

Matrix: Wastewater

COC Reference: 043447

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250701W1, Run Date: 07/01/2025 19:55, Matrix: WW, Dilution: 2.05

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**102.0**	50.0	150.0
M2-6:2FTSA		**99.9**	50.0	150.0
M2-8:2FTSA		**106.6**	50.0	150.0
M2PFTeDA		**101.3**	12.0	218.0
M3PFBS		**107.3**	50.0	150.0
M3PFHxS		**88.4**	50.0	150.0
M4PFHpA		**109.9**	50.0	150.0
M5PFHxA		**103.1**	50.0	150.0
M5PFPeA		**105.4**	50.0	150.0
M6PFDA		**96.3**	50.0	150.0
M7PFUnDA		**91.5**	50.0	150.0
M8FOSA		**101.9**	50.0	150.0
M8PFOA		**110.8**	50.0	150.0
M8PFOS		**97.5**	50.0	150.0
M9-PFNA		**96.5**	50.0	150.0
MPFBA		**104.6**	50.0	150.0
MPFDoDA		**98.7**	50.0	150.0
d3N-MeFOSAA		**102.9**	50.0	150.0
d5EtFOSAA		**102.5**	50.0	150.0
MHFPO-DA		**99.4**	50.0	150.0
d-N-EtFOSA-M		**99.5**	50.0	150.0
d-N-MeFOSA-M		**109.4**	50.0	150.0
d7-N-MeFOSE-M		**104.0**	50.0	150.0
d9-N-EtFOSE-M		**99.5**	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S76159.02

Sample Tag: 02-PRCC-25-MID-2-180-20250627

Collected Date/Time: 06/27/2025 09:12

Matrix: Wastewater

COC Reference: 043447

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250701W1, Run Date: 07/01/2025 20:35, Matrix: WW, Dilution: 1.99

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**89.8**	50.0	150.0
M2-6:2FTSA		**100.5**	50.0	150.0
M2-8:2FTSA		**114.0**	50.0	150.0
M2PFTeDA		**91.5**	12.0	218.0
M3PFBS		**112.6**	50.0	150.0
M3PFHxS		**95.1**	50.0	150.0
M4PFHpA		**105.9**	50.0	150.0
M5PFHxA		**107.6**	50.0	150.0
M5PFPeA		**101.3**	50.0	150.0
M6PFDA		**95.2**	50.0	150.0
M7PFUnDA		**102.4**	50.0	150.0
M8FOSA		**101.8**	50.0	150.0
M8PFOA		**107.0**	50.0	150.0
M8PFOS		**103.8**	50.0	150.0
M9-PFNA		**107.7**	50.0	150.0
MPFBA		**103.3**	50.0	150.0
MPFDoDA		**100.3**	50.0	150.0
d3N-MeFOSAA		**100.9**	50.0	150.0
d5EtFOSAA		**93.0**	50.0	150.0
MHFPO-DA		**99.9**	50.0	150.0
d-N-EtFOSA-M		**97.7**	50.0	150.0
d-N-MeFOSA-M		**100.1**	50.0	150.0
d7-N-MeFOSE-M		**104.5**	50.0	150.0
d9-N-EtFOSE-M		**97.1**	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S76159.03

Sample Tag: 02-PRCC-25-MID-1-180-20250627

Collected Date/Time: 06/27/2025 09:14

Matrix: Wastewater

COC Reference: 043447

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250701W1, Run Date: 07/01/2025 20:55, Matrix: WW, Dilution: 2.08

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**103.4**	50.0	150.0
M2-6:2FTSA		**106.7**	50.0	150.0
M2-8:2FTSA		**114.7**	50.0	150.0
M2PFTeDA		**95.7**	12.0	218.0
M3PFBS		**104.4**	50.0	150.0
M3PFHxS		**101.5**	50.0	150.0
M4PFHpA		**114.9**	50.0	150.0
M5PFHxA		**98.6**	50.0	150.0
M5PFPeA		**108.1**	50.0	150.0
M6PFDA		**105.1**	50.0	150.0
M7PFUnDA		**101.2**	50.0	150.0
M8FOSA		**97.1**	50.0	150.0
M8PFOA		**112.9**	50.0	150.0
M8PFOS		**87.7**	50.0	150.0
M9-PFNA		**98.5**	50.0	150.0
MPFBA		**103.2**	50.0	150.0
MPFDoDA		**96.4**	50.0	150.0
d3N-MeFOSAA		**106.2**	50.0	150.0
d5EtFOSAA		**94.3**	50.0	150.0
MHFPO-DA		**101.4**	50.0	150.0
d-N-EtFOSA-M		**97.9**	50.0	150.0
d-N-MeFOSA-M		**98.9**	50.0	150.0
d7-N-MeFOSE-M		**100.2**	50.0	150.0
d9-N-EtFOSE-M		**94.4**	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S76159.04

Sample Tag: 02-PRCC-25-PRIM-180-20250627

Collected Date/Time: 06/27/2025 09:16

Matrix: Wastewater

COC Reference: 043447

Organics - Volatiles, Analysis: 34 PFAs

Run in Batch: AK250701W1, Run Date: 07/01/2025 21:15, Matrix: WW, Dilution: 2.03

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**102.7**	50.0	150.0
M2-6:2FTSA		**111.5**	50.0	150.0
M2-8:2FTSA		**105.3**	50.0	150.0
M2PFTeDA		**107.8**	12.0	218.0
M3PFBS		**111.4**	50.0	150.0
M3PFHxS		**108.9**	50.0	150.0
M4PFHpA		**107.2**	50.0	150.0
M5PFHxA		**97.3**	50.0	150.0
M5PFPeA		**97.6**	50.0	150.0
M6PFDA		**106.4**	50.0	150.0
M7PFUnDA		**97.8**	50.0	150.0
M8FOSA		**99.7**	50.0	150.0
M8PFOA		**104.4**	50.0	150.0
M8PFOS		**97.1**	50.0	150.0
M9-PFNA		**104.1**	50.0	150.0
MPFBA		**102.2**	50.0	150.0
MPFDoDA		**99.8**	50.0	150.0
d3N-MeFOSAA		**104.4**	50.0	150.0
d5EtFOSAA		**99.1**	50.0	150.0
MHFPO-DA		**95.3**	50.0	150.0
d-N-EtFOSA-M		**103.5**	50.0	150.0
d-N-MeFOSA-M		**112.3**	50.0	150.0
d7-N-MeFOSE-M		**107.9**	50.0	150.0
d9-N-EtFOSE-M		**99.1**	50.0	150.0

Organics - Volatiles, Prep Batch ID: PF250701W1

QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK)

Lab Sample ID: AK250701W1.BLK250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:35, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**97.8**	50.0	150.0
M2-6:2FTSA		**106.1**	50.0	150.0
M2-8:2FTSA		**119.2**	50.0	150.0
M2PFTeDA		**98.6**	12.0	218.0
M3PFBS		**96.4**	50.0	150.0
M3PFHxS		**100.1**	50.0	150.0
M4PFHpA		**109.3**	50.0	150.0
M5PFHxA		**91.0**	50.0	150.0
M5PFPeA		**99.5**	50.0	150.0
M6PFDA		**100.5**	50.0	150.0
M7PFUnDA		**101.9**	50.0	150.0
M8FOSA		**100.9**	50.0	150.0
M8PFOA		**110.8**	50.0	150.0
M8PFOS		**95.6**	50.0	150.0
M9-PFNA		**101.7**	50.0	150.0
MPFBA		**101.0**	50.0	150.0
MPFDoDA		**94.5**	50.0	150.0
d3N-MeFOSAA		**96.4**	50.0	150.0
d5EtFOSAA		**97.2**	50.0	150.0
MHFPO-DA		**100.7**	50.0	150.0
d-N-EtFOSA-M		**87.6**	50.0	150.0
d-N-MeFOSA-M		**93.5**	50.0	150.0
d7-N-MeFOSE-M		**93.8**	50.0	150.0
d9-N-EtFOSE-M		**90.0**	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample (LCS)

Lab Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 14:54, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA		**94.2**	50.0	150.0
M2-6:2FTSA		**99.2**	50.0	150.0
M2-8:2FTSA		**115.3**	50.0	150.0
M2PFTeDA		**95.9**	12.0	218.0
M3PFBS		**94.0**	50.0	150.0
M3PFHxS		**94.1**	50.0	150.0
M4PFHpA		**100.3**	50.0	150.0
M5PFHxA		**102.7**	50.0	150.0
M5PFPeA		**94.5**	50.0	150.0
M6PFDA		**95.0**	50.0	150.0
M7PFUnDA		**93.7**	50.0	150.0
M8FOSA		**98.4**	50.0	150.0
M8PFOA		**101.4**	50.0	150.0
M8PFOS		**93.8**	50.0	150.0
M9-PFNA		**94.9**	50.0	150.0
MPFBA		**99.8**	50.0	150.0
MPFDoDA		**98.5**	50.0	150.0
d3N-MeFOSAA		**98.9**	50.0	150.0
d5EtFOSAA		**89.5**	50.0	150.0
MHFPO-DA		**89.6**	50.0	150.0
d-N-EtFOSA-M		**95.9**	50.0	150.0
d-N-MeFOSA-M		**94.7**	50.0	150.0
d7-N-MeFOSE-M		**100.7**	50.0	150.0
d9-N-EtFOSE-M		**87.4**	50.0	150.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250701W1.LCSD250701, Parent Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		**98.2**	50.0	150.0
M2-6:2FTSA		**111.5**	50.0	150.0
M2-8:2FTSA		**112.8**	50.0	150.0
M2PFTeDA		**94.6**	12.0	218.0
M3PFBS		**105.5**	50.0	150.0
M3PFHxS		**89.0**	50.0	150.0
M4PFHpA		**103.3**	50.0	150.0
M5PFHxA		**99.0**	50.0	150.0
M5PFPeA		**99.6**	50.0	150.0
M6PFDA		**104.8**	50.0	150.0
M7PFUnDA		**99.6**	50.0	150.0
M8FOSA		**94.9**	50.0	150.0
M8PFOA		**101.4**	50.0	150.0
M8PFOS		**85.9**	50.0	150.0
M9-PFNA		**109.7**	50.0	150.0
MPFBA		**100.0**	50.0	150.0
MPFDoDA		**99.2**	50.0	150.0
d3N-MeFOSAA		**96.0**	50.0	150.0
d5EtFOSAA		**97.8**	50.0	150.0
MHFPO-DA		**100.0**	50.0	150.0
d-N-EtFOSA-M		**101.4**	50.0	150.0
d-N-MeFOSA-M		**96.7**	50.0	150.0
d7-N-MeFOSE-M		**94.9**	50.0	150.0
d9-N-EtFOSE-M		**96.9**	50.0	150.0

QC Report - Internal Standards per QC Sample

Matrix Spike (MS)

Lab Sample ID: AK250701W1.7615609M, Parent Sample ID: S76156.09

Run in Batch: AK250701W1, Run Date: 07/01/2025 18:55, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.1

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA		**92.5**	50.0	150.0
M2-6:2FTSA		**103.5**	50.0	150.0
M2-8:2FTSA		**114.2**	50.0	150.0
M2PFTeDA		**106.2**	12.0	218.0
M3PFBS		**107.5**	50.0	150.0
M3PFHxS		**97.4**	50.0	150.0
M4PFHpA		**104.6**	50.0	150.0
M5PFHxA		**99.2**	50.0	150.0
M5PFPeA		**97.3**	50.0	150.0
M6PFDA		**99.6**	50.0	150.0
M7PFUnDA		**108.4**	50.0	150.0
M8FOSA		**100.9**	50.0	150.0
M8PFOA		**105.6**	50.0	150.0
M8PFOS		**96.5**	50.0	150.0
M9-PFNA		**110.5**	50.0	150.0
MPFBA		**99.9**	50.0	150.0
MPFDoDA		**100.5**	50.0	150.0
d3N-MeFOSAA		**100.7**	50.0	150.0
d5EtFOSAA		**103.8**	50.0	150.0
MHFPO-DA		**103.1**	50.0	150.0
d-N-EtFOSA-M		**95.3**	50.0	150.0
d-N-MeFOSA-M		**105.9**	50.0	150.0
d7-N-MeFOSE-M		**99.3**	50.0	150.0
d9-N-EtFOSE-M		**100.9**	50.0	150.0

Duplicate (DUP)

Lab Sample ID: AK250701W1.7615901D, Parent Sample ID: S76159.01

Run in Batch: AK250701W1, Run Date: 07/01/2025 20:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.05

Internal Standard	Flags	**%Rec**	LCL	UCL
M2-4:2FTSA		**90.1**	50.0	150.0
M2-6:2FTSA		**101.1**	50.0	150.0
M2-8:2FTSA		**113.9**	50.0	150.0
M2PFTeDA		**113.7**	12.0	218.0
M3PFBS		**103.2**	50.0	150.0
M3PFHxS		**98.7**	50.0	150.0
M4PFHpA		**103.4**	50.0	150.0
M5PFHxA		**100.5**	50.0	150.0
M5PFPeA		**103.1**	50.0	150.0
M6PFDA		**99.1**	50.0	150.0
M7PFUnDA		**104.0**	50.0	150.0
M8FOSA		**106.7**	50.0	150.0
M8PFOA		**101.6**	50.0	150.0
M8PFOS		**95.7**	50.0	150.0
M9-PFNA		**105.9**	50.0	150.0
MPFBA		**101.4**	50.0	150.0
MPFDoDA		**97.9**	50.0	150.0
d3N-MeFOSAA		**99.0**	50.0	150.0
d5EtFOSAA		**92.2**	50.0	150.0
MHFPO-DA		**103.7**	50.0	150.0
d-N-EtFOSA-M		**102.4**	50.0	150.0
d-N-MeFOSA-M		**101.3**	50.0	150.0
d7-N-MeFOSE-M		**105.8**	50.0	150.0
d9-N-EtFOSE-M		**105.2**	50.0	150.0

Organics - Volatiles, Prep Batch ID: PF250701W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK)

Lab Sample ID: AK250701W1.BLK250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:35, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	10	ng/l
PFMPA		ND	2	ng/l
FPrPA (3:3 FTCA)		ND	10	ng/l
PFPrS		ND	2	ng/l
PFPeA		ND	4	ng/l
PFMBA		ND	2	ng/l
4:2 FTSA		ND	2	ng/l
NFDHA		ND	2	ng/l
PFHxA		ND	2	ng/l
PFBS		ND	2	ng/l
HFPO-DA		ND	10	ng/l
FPePA (5:3 FTCA)		ND	10	ng/l
PFEESA		ND	2	ng/l
PFHpA		ND	2	ng/l
PFPeS		ND	2	ng/l
ADONA		ND	2	ng/l
6:2 FTSA		ND	2	ng/l
PFBSA		ND	2	ng/l
PFOA		ND	2	ng/l
PFHxS-BR		ND	2	ng/l
PFHxS		ND	2	ng/l
PFHxS-LN		ND	2	ng/l
FHpPA (7:3 FTCA)		ND	10	ng/l
PFNA		ND	2	ng/l
PFECHS		ND	2	ng/l
8:2 FTSA		ND	2	ng/l
PFHpS		ND	2	ng/l
N-MeFOSAA		ND	2	ng/l
PFDA		ND	2	ng/l
PFOS-BR		ND	2	ng/l
EtFOSAA		ND	4	ng/l
PFOS		ND	2	ng/l
PFOS-LN		ND	2	ng/l
PFHxSA		ND	2	ng/l
PFUnDA		ND	2	ng/l
9CL-PF3ONS		ND	2	ng/l
PFNS		ND	2	ng/l
PFDoDA		ND	2	ng/l
PFDS		ND	2	ng/l
PFTrDA		ND	2	ng/l
11CL-PF3OUdS		ND	2	ng/l
FOSA		ND	2	ng/l
PFTeDA		ND	4	ng/l
PFDOS		ND	6	ng/l
NMeFOSE		ND	4	ng/l
NMeFOSAM		ND	2	ng/l

Organics - Volatiles, Prep Batch ID: PF250701W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Blank (BLK) (continued)

Lab Sample ID: AK250701W1.BLK250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:35, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
NEtFOSE		ND	4	ng/l
NEtFOSAM		ND	2	ng/l

Laboratory Control Sample (LCS)

Lab Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 14:54, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		98.6	70.0	130.0
PFMPA		79.4	70.0	130.0
FPrPA (3:3 FTCA)		99.6	70.0	130.0
PFPrS		101.0	70.0	130.0
PFPeA		101.6	70.0	130.0
PFMBA		89.4	70.0	130.0
4:2 FTSA		117.0	70.0	130.0
NFDHA		101.8	70.0	130.0
PFHxA		86.8	70.0	130.0
PFBS		105.0	70.0	130.0
HFPO-DA		111.2	70.0	130.0
FPePA (5:3 FTCA)		76.0	70.0	130.0
PFEESA		84.6	70.0	130.0
PFHpA		105.2	70.0	130.0
PFPeS		101.2	70.0	130.0
ADONA		108.0	70.0	130.0
6:2 FTSA		99.4	70.0	130.0
PFBSA		87.0	70.0	130.0
PFOA		99.0	70.0	130.0
PFHxS		97.6	70.0	130.0
FHpPA (7:3 FTCA)		85.6	70.0	130.0
PFNA		99.6	70.0	130.0
PFECHS		91.2	70.0	130.0
8:2 FTSA		86.4	70.0	130.0
PFHpS		95.4	70.0	130.0
N-MeFOSAA		93.0	70.0	130.0
PFDA		105.0	70.0	130.0
EtFOSAA		103.0	70.0	130.0
PFOS		93.8	70.0	130.0
PFHxSA		92.2	70.0	130.0
PFUnDA		107.8	70.0	130.0
9CL-PF3ONS		85.4	70.0	130.0
PFNS		102.6	70.0	130.0
PFDoDA		103.4	70.0	130.0
PFDS		94.2	70.0	130.0
PFTrDA		102.8	70.0	130.0
11CL-PF3OUdS		97.8	70.0	130.0
FOSA		95.2	70.0	130.0
PFTeDA		96.4	70.0	130.0

Organics - Volatiles, Prep Batch ID: PF250701W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 14:54, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFDOS		110.8	70.0	130.0
NMeFOSE		92.2	70.0	130.0
NMeFOSAM		99.2	70.0	130.0
NEtFOSE		113.0	70.0	130.0
NEtFOSAM		93.6	70.0	130.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250701W1.LCSD250701, Parent Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		97.0	70.0	130.0	1.6	30.0
PFMPA		89.8	70.0	130.0	12.3	30.0
FPrPA (3:3 FTCA)		86.2	70.0	130.0	14.4	30.0
PFPrS		89.6	70.0	130.0	12.0	30.0
PFPeA		93.2	70.0	130.0	8.6	30.0
PFMBA		93.2	70.0	130.0	4.2	30.0
4:2 FTSA		101.4	70.0	130.0	14.3	30.0
NFDHA		100.6	70.0	130.0	1.2	30.0
PFHxA		94.4	70.0	130.0	8.4	30.0
PFBS		89.0	70.0	130.0	16.5	30.0
HFPO-DA		98.2	70.0	130.0	12.4	30.0
FPePA (5:3 FTCA)		78.4	70.0	130.0	3.1	30.0
PFEESA		98.4	70.0	130.0	15.1	30.0
PFHpA		90.6	70.0	130.0	14.9	30.0
PFPeS		98.6	70.0	130.0	2.6	30.0
ADONA		115.2	70.0	130.0	6.5	30.0
6:2 FTSA		78.8	70.0	130.0	23.1	30.0
PFBSA		98.2	70.0	130.0	12.1	30.0
PFOA		97.8	70.0	130.0	1.2	30.0
PFHxS		93.4	70.0	130.0	4.4	30.0
FHpPA (7:3 FTCA)		98.4	70.0	130.0	13.9	30.0
PFNA		91.6	70.0	130.0	8.4	30.0
PFECHS		103.2	70.0	130.0	12.3	30.0
8:2 FTSA		99.8	70.0	130.0	14.4	30.0
PFHpS		113.2	70.0	130.0	17.1	30.0
N-MeFOSAA		98.2	70.0	130.0	5.4	30.0
PFDA		91.2	70.0	130.0	14.1	30.0
EtFOSAA		105.6	70.0	130.0	2.5	30.0
PFOS		103.2	70.0	130.0	9.5	30.0
PFHxSA		100.8	70.0	130.0	8.9	30.0
PFUnDA		96.8	70.0	130.0	10.8	30.0
9CL-PF3ONS		91.8	70.0	130.0	7.2	30.0
PFNS		120.0	70.0	130.0	15.6	30.0
PFDoDA		100.4	70.0	130.0	2.9	30.0
PFDS		112.2	70.0	130.0	17.4	30.0
PFTrDA		104.6	70.0	130.0	1.7	30.0

Organics - Volatiles, Prep Batch ID: PF250701W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: AK250701W1.LCSD250701, Parent Sample ID: AK250701W1.LCS250701

Run in Batch: AK250701W1, Run Date: 07/01/2025 15:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
11CL-PF3OUdS		103.4	70.0	130.0	5.6	30.0
FOSA		95.8	70.0	130.0	0.6	30.0
PFTeDA		100.4	70.0	130.0	4.1	30.0
PFDOS		124.4	70.0	130.0	11.6	30.0
NMeFOSE		100.8	70.0	130.0	8.9	30.0
NMeFOSAM		104.6	70.0	130.0	5.3	30.0
NEtFOSE		100.4	70.0	130.0	11.8	30.0
NEtFOSAM		91.8	70.0	130.0	1.9	30.0

Matrix Spike (MS)

Lab Sample ID: AK250701W1.7615609M, Parent Sample ID: S76156.09

Run in Batch: AK250701W1, Run Date: 07/01/2025 18:55, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.1

Analyte	Flags	% Rec	LCL	UCL
PFBA		104.8	70.0	130.0
PFPeA		95.2	70.0	130.0
4:2 FTSA		104.8	70.0	130.0
PFHxA		94.3	70.0	130.0
PFBS		85.7	70.0	130.0
PFHpA		104.8	70.0	130.0
PFPeS		95.2	70.0	130.0
6:2 FTSA		90.5	70.0	130.0
PFOA		93.3	70.0	130.0
PFHxS		95.2	70.0	130.0
PFNA		93.3	70.0	130.0
8:2 FTSA		104.8	70.0	130.0
PFHpS		91.4	70.0	130.0
PFDA		104.8	70.0	130.0
N-MeFOSAA		95.2	70.0	130.0
EtFOSAA		89.5	70.0	130.0
PFOS		95.2	70.0	130.0
PFUnDA		95.2	70.0	130.0
PFNS		114.3	70.0	130.0
PFDoDA		114.3	70.0	130.0
PFDS		104.8	70.0	130.0
PFTrDA		104.8	70.0	130.0
FOSA		95.2	70.0	130.0
PFTeDA		95.2	70.0	130.0
11CL-PF3OUdS		104.8	70.0	130.0
9CL-PF3ONS		86.7	70.0	130.0
ADONA		114.3	70.0	130.0
HFPO-DA		88.6	70.0	130.0
FHpPA (7:3 FTCA)		81.0	70.0	130.0
FPePA (5:3 FTCA)		90.5	70.0	130.0
FPrPA (3:3 FTCA)		104.8	70.0	130.0
NFDHA		104.8	70.0	130.0
PFEESA		104.8	70.0	130.0

Organics - Volatiles, Prep Batch ID: PF250701W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Matrix Spike (MS) (continued)

Lab Sample ID: AK250701W1.7615609M, Parent Sample ID: S76156.09

Run in Batch: AK250701W1, Run Date: 07/01/2025 18:55, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.1

Analyte	Flags	% Rec	LCL	UCL
PFMBA		88.6	70.0	130.0
PFMPA		81.0	70.0	130.0
NMeFOSAM		95.2	70.0	130.0
NMeFOSE		114.3	70.0	130.0
NEtFOSAM		104.8	70.0	130.0
NEtFOSE		104.8	70.0	130.0
PFDOS		114.3	70.0	130.0

Duplicate (DUP)

Lab Sample ID: AK250701W1.7615901D, Parent Sample ID: S76159.01

Run in Batch: AK250701W1, Run Date: 07/01/2025 20:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.05

Analyte	Flags	RPD	RPD CL
PFBA		NC	30.0
PFPeA		NC	30.0
4:2 FTSA		NC	30.0
PFHxA		NC	30.0
PFBS		NC	30.0
PFHpA		NC	30.0
PFPeS		NC	30.0
6:2 FTSA		NC	30.0
PFOA		NC	30.0
PFHxS		NC	30.0
PFHxS-LN		NC	30.0
PFHxS-BR		NC	30.0
PFNA		NC	30.0
8:2 FTSA		NC	30.0
PFHpS		NC	30.0
PFDA		NC	30.0
N-MeFOSAA		NC	30.0
EtFOSAA		NC	30.0
PFOS	*	200.0	30.0
PFOS-LN		NC	30.0
PFOS-BR		NC	30.0
PFUnDA		NC	30.0
PFNS		NC	30.0
PFDoDA		NC	30.0
PFDS		NC	30.0
PFTrDA		NC	30.0
FOSA		NC	30.0
PFTeDA		NC	30.0
11CL-PF3OUdS		NC	30.0
9CL-PF3ONS		NC	30.0
ADONA		NC	30.0
HFPO-DA		NC	30.0
FHpPA (7:3 FTCA)		NC	30.0
FPePA (5:3 FTCA)		NC	30.0

Organics - Volatiles, Prep Batch ID: PF250701W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Duplicate (DUP) (continued)

Lab Sample ID: AK250701W1.7615901D, Parent Sample ID: S76159.01

Run in Batch: AK250701W1, Run Date: 07/01/2025 20:15, Prep Date: 07/01/2025, Matrix: WW, Dilution: 2.05

Analyte	Flags	RPD	RPD CL
FPrPA (3:3 FTCA)		NC	30.0
PFBSA		NC	30.0
PFECHS		NC	30.0
PFHxSA		NC	30.0

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

043447

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yuntz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd.
CITY: Ann Arbor | STATE: MI | ZIP CODE: 48105
PHONE NO.: 313-333-0211 | FAX NO.: — | P.O. NO.: 1940011180 Task 37
E-MAIL ADDRESS: Kevin.Schneider@Ramboll.com; Clifford.Yuntz@Ramboll.com | QUOTE NO.: —

INVOICE TO

CONTACT NAME | X SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | FAX NO. | P.O. NO.

PROJECT NO./NAME: RACER Coldwater Road
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PFAS (1535)	SPECIAL INSTRUCTIONS/NOTES
761581.01	6/27/25	910	02-PRCC-25-EFF-180-20250627	WW	3	X							X	low level Reporting with estimated values
.02	↓	912	02-PRCC-25-MID-2-180-20250627	WW	3	X							X	
.03		914	02-PRCC-25-MID-1-180-20250627	WW	3	X							X	
.04	↓	916	02-PRCC-25-PRIM-180-20250627	WW	3	X							X	
														34 PFAS List

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6/27/25	1126
RECEIVED BY: SIGNATURE/ORGANIZATION	6/27/25	1126
RELINQUISHED BY: SIGNATURE/ORGANIZATION	6/27/25	1345
RECEIVED BY: SIGNATURE/ORGANIZATION	6/27/25	1345

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE