



# Analytical Laboratory Report

Report ID: S57985.01(01)  
Generated on 01/25/2024

Report to

Attention: Kristin Peterson  
Environmental Resource Group  
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Report Summary

Lab Sample ID(s): S57985.01-S57985.07  
Project: 230029 OPM  
Collected Date(s): 01/25/2024  
Submitted Date/Time: 01/25/2024 08:38  
Sampled by: Kristin Peterson  
P.O. #:

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
- Report Narrative (Page 2)
- Laboratory Accreditations (Page 3)
- Qualifier Descriptions (Page 3)
- Glossary of Abbreviations (Page 3)
- Method Summary (Page 4)
- Sample Summary (Page 5)

Maya Murshak  
Technical Director



# Analytical Laboratory Report

## General Report Notes

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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.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

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

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There is no additional narrative for this analytical report



# Analytical Laboratory 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
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
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



# Analytical Laboratory Report

## Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
SW3015A	SW 846 Method 3015A Revision 1 February 2007



# Analytical Laboratory Report

## Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S57985.01	Room 135 Sink - 01	Drinking Water	01/25/24 06:16
S57985.02	Room 131 Sink - 02	Drinking Water	01/25/24 06:19
S57985.03	Room 104 Sink - 03	Drinking Water	01/25/24 06:22
S57985.04	Room 107 Sink - 04	Drinking Water	01/25/24 06:24
S57985.05	Room 116 Sink - 05	Drinking Water	01/25/24 06:27
S57985.06	Room 119 Sink - 06	Drinking Water	01/25/24 06:31
S57985.07	Room 121 Sink - 07	Drinking Water	01/25/24 06:36



# Analytical Laboratory Report

Lab Sample ID: S57985.01

Sample Tag: Room 135 Sink - 01

Collected Date/Time: 01/25/2024 06:16

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:49, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



# Analytical Laboratory Report

Lab Sample ID: S57985.02

Sample Tag: Room 131 Sink - 02

Collected Date/Time: 01/25/2024 06:19

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.001	0.001		mg/L	2	7439-92-1		0.015



# Analytical Laboratory Report

Lab Sample ID: S57985.03

Sample Tag: Room 104 Sink - 03

Collected Date/Time: 01/25/2024 06:22

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:52, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015





# Analytical Laboratory Report

Lab Sample ID: S57985.04

Sample Tag: Room 107 Sink - 04

Collected Date/Time: 01/25/2024 06:24

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:53, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



# Analytical Laboratory Report

Lab Sample ID: S57985.05

Sample Tag: Room 116 Sink - 05

Collected Date/Time: 01/25/2024 06:27

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:54, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



# Analytical Laboratory Report

Lab Sample ID: S57985.06

Sample Tag: Room 119 Sink - 06

Collected Date/Time: 01/25/2024 06:31

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:56, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



# Analytical Laboratory Report

Lab Sample ID: S57985.07

Sample Tag: Room 121 Sink - 07

Collected Date/Time: 01/25/2024 06:36

Matrix: Drinking Water

COC Reference:

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	17.4	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/25/24 09:50	JRH	

### Metals

Method: E200.8, Run Date: 01/25/24 11:57, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015

# Merit Laboratories Login Checklist

Lab Set ID:S57985

Client:ERG (Environmental Resource Group)

Project: 230029 OPM

Submitted:01/25/2024 08:38 Login User: PFD

Attention: Kristin Peterson

Address: Environmental Resource Group  
28003 Center Oaks Court, Suite 106  
Wixom, MI 48393

Phone: 517-256-4048 FAX:

Email: Kristin.Peterson@ergrp.net

Selection	Description	Note
-----------	-------------	------

## Sample Receiving

- |     |  |   |
|-----|--|---|
| 01. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 17.4 |
| 02. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun                  |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped   |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box                         |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked  |

## Chain of Custody

- |     |  |  |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out                |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab   |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC          |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

## Preservation

- |     |  |   |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation        |
| 11. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab?    |

## Bottle Conditions

- |     |  |   |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact                            |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used       |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used                            |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received             |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration         |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time         |
| 19. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

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: S57985 Submitted: 01/25/2024 08:38

Client: ERG (Environmental Resource Group)

Project: 230029 OPM

Initial Preservation Check: 01/25/2024 08:49 PFD

Preservation Recheck (E200.8): N/A

Attention: Kristin Peterson

Address: Environmental Resource Group  
28003 Center Oaks Court, Suite 106  
Wixom, MI 48393

Phone: 517-256-4048

FAX:

Email: Kristin.Peterson@ergp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S57985.01	1L Plastic HNO3	<2			
S57985.02	1L Plastic HNO3	<2			
S57985.03	1L Plastic HNO3	<2			
S57985.04	1L Plastic HNO3	<2			
S57985.05	1L Plastic HNO3	<2			
S57985.06	1L Plastic HNO3	<2			
S57985.07	1L Plastic HNO3	<2			



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C.O.C. PAGE # 1 OF 1

**REPORT TO** **CHAIN OF CUSTODY RECORD** **INVOICE TO**

CONTACT NAME: Kristin Peterson  
 COMPANY: Environmental Resources Group  
 ADDRESS: 3125 Sovereign Dr.  
 CITY: Lansing STATE: M. ZIP CODE: 48911  
 PHONE NO.: 517-256-4048 FAX NO.: P.O. NO.:  
 E-MAIL ADDRESS: Kristin.peterson@ergrp.net / Phillip.peterson@ergrp.net QUOTE NO.:

CONTACT NAME: Accounting  SAME  
 COMPANY: ERG  
 ADDRESS: 28003 center oaks pt, suite 106  
 CITY: Wixom STATE: M. ZIP CODE: 48393  
 PHONE NO.: 248-773-7986 E-MAIL ADDRESS: accounting@ergrp.net

**ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)**

PROJECT NO./NAME: 230029 OPM SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kristin Peterson / *[Signature]*  
 TURNAROUND TIME REQUIRED:  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER  
 DELIVERABLES REQUIRED:  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER

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

**# Containers & Preservatives**

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

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER	Lead in drinking water
	DATE	TIME											
57985.01	1/25/24	6:16	Room 135 sink -01	W	1			X					X
.02		6:19	Room 131 sink -02	W	1			X					X
.03		6:22	Room 104 sink -03	W	1			X					X
.04		6:24	Room 107 sink -04	W	1			X					X
.05		6:27	Room 116 sink -05	W	1			X					X
.06		6:31	Room 119 sink -06	W	1			X					X
.07		6:36	Room 121 sink -07	W	1			X					X

RELINQUISHED BY: *[Signature]* / ERG  Sampler DATE: 1/25/24 TIME: 9:00  
 RECEIVED BY: *[Signature]* / ERG DATE: 1/25/24 TIME: 0838

RELINQUISHED BY: DATE: TIME:  
 RECEIVED BY: DATE: TIME:  
 SEAL NO. SEAL INTACT INITIALS NOTES: TEMP. ON ARRIVAL  
 YES  NO  Not on ice 17.4  
 SEAL NO. SEAL INTACT INITIALS  
 YES  NO

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