

LEAD IN DRINKING WATER SAMPLING



PUBLIC MONTESSORI AT CENTRAL 4406 OKEMOS ROAD OKEMOS, MICHIGAN 48864

PREPARED FOR:

OKEMOS PUBLIC SCHOOLS 4406 OKEMOS ROAD OKEMOS, MICHIGAN 48864 ATTENTION: MR. JOHN HOOD

PREPARED BY:

ENVIRONMENTAL RESOURCES GROUP, LLC 3125 SOVEREIGN DRIVE, SUITE 9B LANSING, MICHIGAN 48911

ERG PROJECT NO.: 230029

PROJECT DATES: NOVEMBER 22, 2023, DECEMBER 4, 2023, DECEMBER 5, 2023, AND JANUARY 4, 2024

FINAL REPORT DATE: JANUARY 24, 2024

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1.0 INTRODUCTION AND BACKGROUND

1.1 INTRODUCTION

Environmental Resources Group, LLC (ERG) was retained by Okemos Public Schools to conduct lead in drinking water sampling within the Public Montessori at Central, 4406 Okemos Road, Okemos, Michigan. Sampling was conducted following the cleaning of the sink faucet aerators and the discovery of lead in drinking water following sampling by the Ingham County Health Department.

At the times of testing, the school was undergoing the construction of a new service entrance and main office area. Earlier in the year, several bathrooms had been renovated (new pipes, fixtures, and layout.)

The specific tasks of the evaluation were as follows:

• Collect first draw drinking water samples at select faucet and water bottle fill station locations in the Public Montessori at Central.

Kristin Peterson conducted the sampling on November 22, 2023, continued on December 4 and 5, 2023, and concluded the most recent testing on January 4, 2024, in order to determine lead concentrations in select locations in the school.

1.2 EVALUATION EQUIPMENT AND METHODS

Lead in water samples were collected using plastic 1 liter containers with a nitric acid preservative. The samples were collected after the building water system had not been used for at least 8 hours. Samples were collected as first draw samples, except for the sample collected on January 4, 2024 which was sampled shortly after that bottle fill station became operational.

Samples were collected and submitted to Merit Labs in East Lansing, Michigan. Samples were analyzed using the Environmental Protection Agency (EPA) SW846 Method 3015A Revision 1 Feb 2007. Merit is a Michigan Department of Environment, Great Lakes, and Energy (EGLE) Accredited Lab, Lab number 9956.

2.0 **RESULTS OF TESTING**

The following tables summarize the lead in drinking water sample results for the first draw samples collected on November 22, 2023, December 4, 2023, December 5, 2023, and January 4, 2024, and are as follows:

Table T-1 **Public Montessori at Central** Lead in Water Samples Collected November 22, 2023

Room/Location	Time	Results
102	6:22	ND
103	6:26	ND
104	6:29	ND
105	6:30	ND
107	6:32	ND
106	6:34	ND
116	6:39	7 ppb
118	6:42	ND
121	6:44	38 ppb
Bottle filling station near 126	6:47	ND
124B	6:50	3 ppb
Bottle filling station near 115	6:55	ND

Table T-2 **Public Montessori at Central** Lead in Water Samples Collected December 4, 2023

Room/Location	Time	Results
120	6:13	ND
119	6:15	6 ppb
118	6:17	4 ppb
117	6:19	10 ppb
116	6:24	14 ppb
124B	6:28	3 ppb
124D	6:29	3 ppb
Library	6:32	6 ppb
134	6:34	5 ppb

Table T-3 **Public Montessori at Central** Lead in Water Samples Collected December 5, 2023

Room	Time	Results
Bottle Fill Station in Lobby	6:21	ND
121	6:25	49 ppb

Table T-4
Public Montessori at Central
Lead in Water Samples Collected January 4, 2023

Room	Time	Results
Bottle Fill Station across from Women's Restroom	3:30	ND

Please note that the laboratory reported results in units of micrograms of lead per Liter of drinking water (mg/L). These units are equivalent to parts per million (ppm). To convert units from ppm to parts per billion (ppb). Multiply the results in ppm by 1000. As an example, 0.005 mg/L is the same as 0.005 ppm, which once units are converted, is the same as 5 ppb.

3.0 CONCLUSIONS

The Environmental Protection Agency (EPA) has a lead in drinking water limit in the Lead and Copper Rule of 15 parts per billion (ppb).

A newly passed Michigan regulation called the "filter first" rule, that does not take full effect until 2025, requires that no children consume drinking water which has 5 or more ppb of lead. The sinks in the rooms where lead levels are above 5 parts per billion should not be used for drinking.

Based on the sample results for the lead in water testing all the tested bottle fill stations had no lead detected in the water. These bottle fill stations must be the only ones used for filling water bottles for drinking. Faucet locations, even repeated testing at the same faucet, have had highly variable results.

Those faucets with detectable lead may be used for washing hands, dishes, and fruits and vegetables, provided all hands and objects are dry prior to use or consumption.

ERG believes that construction activities in the building may have loosened scale and debris settled in the plumbing system that is now making its way through the water supply system, resulting in variable lead in drinking water, even at the same test location. Flushing should reduce lead in drinking water levels over time.

4.0 RECOMMENDATIONS

Based on the observations made by the investigator, the findings of this evaluation and the conclusions above, the following recommendation is offered:

- ERG urges the Okemos Public Schools (OPS) to allow drinking water bottles to be filled only at the bottle fill stations. Sink faucets, including those in bathrooms, should not be used for drinking water. Classroom sink faucets should be labeled with a "Do Not Drink" or equivalent label or placard.
- 2. Flush each faucet for 10 minutes prior to the start of the school day.
- 3. Conduct follow up testing at a frequency, in a manner, and for a duration jointly agreed upon by ERG, the Ingham County Health Department, other regulatory agencies (e.g. EGLE), and OPS.

This evaluation was conducted consistent with sound investigative principles and current industry standards. For additional information, please review the attached data or call ERG.

Kristin Peterson Senior Industrial Hygienist

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Phillip A. Peterson Senior Project Manager

APPENDIX A Water Sample Data Sheets and Analytical Data for November 22, 2023





PROJECT NUMBER	200029				
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DATE: 11/22/2023

PROJECT Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public School

ANALYZED BY Merit Tech Labs

WATER SAMPLE DATA SHEET

SAMPLE#	TYPE	DESCRIPTION	TIME ON	Results
			6:22	
1	L	Room 102		Not Detected
			6:26	
2	L	Room 103		Not Detected
			6:29	
3	L	Room 104		Not Detected
			6:30	
4	L	Room 105		Not Detected
			6:32	
5	L	Room 107		Not Detected
			6:34	
6	L	Room 106		Not Detected
			6:39	
7	L	Room 116		Not Detected
			6:42	
8	L	Room 118		Not Detected
			6:44	
9	L	Room 121		Not Detected
			6:47	
10	L	Drinking water bottle station near 126		Not Detected

mg/L=PPM ppm/1000=PPB SAMPLE TYPE L-Lead in water



PROJECT NUMBER	10120	DATE:	11/22/2023
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PROJECT Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY Merit/Water Tech Labs

WATER SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results
			6:50	
11	L	Room 124B	0.50	3 ppb of lead
	_		6:55	5 pp2 51 1555
12	l 1	Bottle Filling Station near 115	0.55	Not detected
	_	Dotter I IIII & Gradie I I I I I I	6:57	.tot detected
13	L	Childcare Room 135		Not detected
	_		7:00	1333 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
14	L	Bottle Filling Station near 135		Not detected
		5	7:29	
15	L	Cafeteria sink		Not detected

mg/L=PPM ppm/1000=PPB SAMPLE TYPE L-Lead in water



Report ID: S56044.01(01) Generated on 11/27/2023

Report to

Attention: Kristin Peterson
Environmental Resource Group
28003 Center Oaks Court, Suite 106

Wixom, MI 48393

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Addtional Contacts: John Kemp

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): S56044.01-S56044.15

Project: 10120

Collected Date(s): 11/22/2023

Submitted Date/Time: 11/22/2023 10:35

Sampled by: Kristin Peterson

P.O. #:

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Maya Murshak Technical Director

Naya Mushah



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.

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

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
В	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
Н	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
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
X	Elevated reporting limit due to matrix interference
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
х	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

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Method Summary

Method Version

E200.8 EPA Method 200.8 Revision 5.4

SW3015A SW 846 Method 3015A Revision 1 February 2007

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Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56044.01	Room 102 (1)	Drinking Water	11/22/23 06:23
S56044.02	Room 103 (2)	Drinking Water	11/22/23 06:25
S56044.03	Room 104 (3)	Drinking Water	11/22/23 06:27
S56044.04	Room 105 (4)	Drinking Water	11/22/23 06:31
S56044.05	Room 107 (5)	Drinking Water	11/22/23 06:32
S56044.06	Room 106 (6)	Drinking Water	11/22/23 06:35
S56044.07	Room 116 (7)	Drinking Water	11/22/23 06:37
S56044.08	Room 118 (8)	Drinking Water	11/22/23 06:39
S56044.09	Room 121 (9)	Drinking Water	11/22/23 06:41
S56044.10	Drinking Fountain Bottle fill Near 126 (10)	Drinking Water	11/22/23 06:43
S56044.11	Room 124B (11)	Drinking Water	11/22/23 06:45
S56044.12	Drinking Fountain Bottle fill Near 115 (12)	Drinking Water	11/22/23 06:47
S56044.13	Child Care Room 135 (13)	Drinking Water	11/22/23 06:57
S56044.14	Drinking Fountain Bottle fill Near 135 (14)	Drinking Water	11/22/23 07:00
S56044.15	Cafeteria Sink (15)	Drinking Water	11/22/23 07:29



Lab Sample ID: S56044.01

Sample Tag: Room 102 (1)

Collected Date/Time: 11/22/2023 06:23

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:53, Analyst: CCM

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

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Lab Sample ID: S56044.02

Sample Tag: Room 103 (2)

Collected Date/Time: 11/22/2023 06:25

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:54, Analyst: CCM

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

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Lab Sample ID: S56044.03

Sample Tag: Room 104 (3)

Collected Date/Time: 11/22/2023 06:27

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:55, Analyst: CCM

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



Lab Sample ID: S56044.04

Sample Tag: Room 105 (4)

Collected Date/Time: 11/22/2023 06:31

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:56, Analyst: CCM

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

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Lab Sample ID: S56044.05

Sample Tag: Room 107 (5)

Collected Date/Time: 11/22/2023 06:32

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:56, Analyst: CCM

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

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Lab Sample ID: S56044.06

Sample Tag: Room 106 (6)

Collected Date/Time: 11/22/2023 06:35

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:57, Analyst: CCM

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

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Lab Sample ID: S56044.07

Sample Tag: Room 116 (7)

Collected Date/Time: 11/22/2023 06:37

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:58, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.007	0.001		mg/L	2	7439-92-1		0.015

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Lab Sample ID: S56044.08

Sample Tag: Room 118 (8)

Collected Date/Time: 11/22/2023 06:39

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:58, Analyst: CCM

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

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Lab Sample ID: S56044.09

Sample Tag: Room 121 (9)

Collected Date/Time: 11/22/2023 06:41

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 14:59, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.038	0.001		mg/L	2	7439-92-1	!	0.015

!-Result is outside of stated limit criteria

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Lab Sample ID: S56044.10

Sample Tag: Drinking Fountain Bottle fill Near 126 (10)

Collected Date/Time: 11/22/2023 06:43

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:00, Analyst: CCM

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

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Lab Sample ID: S56044.11

Sample Tag: Room 124B (11)

Collected Date/Time: 11/22/2023 06:45

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.003	0.001		ma/l	2	7439-92-1		0.015

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Lab Sample ID: S56044.12

Sample Tag: Drinking Fountain Bottle fill Near 115 (12)

Collected Date/Time: 11/22/2023 06:47

Matrix: Drinking Water COC Reference: 166317

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:09, Analyst: CCM

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

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Lab Sample ID: S56044.13

Sample Tag: Child Care Room 135 (13) Collected Date/Time: 11/22/2023 06:57

Matrix: Drinking Water COC Reference: 166318

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:10, Analyst: CCM

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

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Lab Sample ID: S56044.14

Sample Tag: Drinking Fountain Bottle fill Near 135 (14)

Collected Date/Time: 11/22/2023 07:00

Matrix: Drinking Water COC Reference: 166318

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:11, Analyst: CCM

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

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Lab Sample ID: S56044.15

Sample Tag: Cafeteria Sink (15)
Collected Date/Time: 11/22/2023 07:29

Matrix: Drinking Water COC Reference: 166318

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	13.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	11/22/23 13:30	CCM	

Metals

Method: E200.8, Run Date: 11/22/23 15:12, Analyst: CCM

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

Report to Environmental Resource Group Project: 10120

Page 20 of 20

Merit Laboratories Login Checklist

Lab Set ID:S56044

Client: ERG (Environmental Resource Group)

Client Review By: _____ Date:_

Project: 10120

Submitted: 11/22/2023 10:35 Login User: MMC

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

Selec	tion			Description	Note
Samı	ole Receiv	ving			
01.	Yes	X No	N/A	Samples are received at 4C +/- 2C Thermometer #	IR 13.9
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	
Chai	n of Custo	ody			
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:	
Pres	ervation				
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?	
Bottl	e Conditi	ons			
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 or TOX bottles contain headspace	
Corre	ective acti	on for all	exceptions	s is to call the client and to notify the project manager.	

Merit Laboratories Bottle Preservation Check

Lab Set ID: S56044 Submitted: 11/22/2023 10:35

Client: ERG (Environmental Resource Group)

Project: 10120

Initial Preservation Check: 11/22/2023 11:12 MMC

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@ergrp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S56044.01	1L Plastic HNO3	<2			
S56044.02	1L Plastic HNO3	<2			
S56044.03	1L Plastic HNO3	<2			
S56044.04	1L Plastic HNO3	<2			
S56044.05	1L Plastic HNO3	<2			
S56044.06	1L Plastic HNO3	<2			
S56044.07	1L Plastic HNO3	<2			
S56044.08	1L Plastic HNO3	<2			
S56044.09	1L Plastic HNO3	<2			
S56044.10	1L Plastic HNO3	<2			
S56044.11	1L Plastic HNO3	<2			
S56044.12	1L Plastic HNO3	<2			
S56044.13	1L Plastic HNO3	<2			
S56044.14	1L Plastic HNO3	<2			
S56044.15	1L Plastic HNO3	<2			



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

c.o.c. page # _ I _ of _ 2 _ 166317

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

C.O.C. PAGE # _ 2 OF _ 3 166318

REPORT TO CHAIN OF CUS CONTACT NAME Krisha Pelecson							JS1	STODY RECORD												1	INVOICE TO				
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APPENDIX B Water Sample Data Sheet and Analytical Data for December 4, 2023





DJECT NUMBER 230029

DATE: 12/4/2023

PROJECT Public Montessori at Central

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY Merit Tech Labs

WATER SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results PPB
1	L	Room 120	6:13	ND
2	L	Room 119	6:15	6
3	L	Room 118	6:17	4
4	L	Room 117	6:19	1
5	L	Room 116	6:24	14
6	L	Room 124B	6:28	3
7	L	Room 124D	6:29	3
8	L	Library	6:32	6
9	L	Room 134	6:34	5

mg/L=PPM ppm/1000=PPB

SAMPLE TYPE L-Lead in water



Report ID: S56324.01(01) Generated on 12/05/2023

Report to

Attention: Kristin Peterson
Environmental Resource Group

3125 Sovereign Dr. Lansing, MI 48911

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Addtional Contacts: John Kemp

Report Summary

Lab Sample ID(s): S56324.01-S56324.09

Project: 230029

Collected Date(s): 12/04/2023

Submitted Date/Time: 12/04/2023 09:00

Sampled by: Kristin Peterson

P.O. #:

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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)

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)

Maya Murshak Technical Director

Naya Mushah



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.

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

There is no additional narrative for this analytical report



Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:201	7 #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
В	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
Н	Sample submitted and run outside of holding time
1	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
0	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
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	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



Method Summary

Method Version

E200.8 EPA Method 200.8 Revision 5.4

SW3015A SW 846 Method 3015A Revision 1 February 2007

Report to Environmental Resource Group Project: 230029

Page 4 of 14

Generated on 12/05/2023 Report ID: S56324.01(01)



Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56324.01	Room 120 - 01	Drinking Water	12/04/23 06:13
S56324.02	Room 119 - 02	Drinking Water	12/04/23 06:15
S56324.03	Room 118 - 03	Drinking Water	12/04/23 06:17
S56324.04	Room 117 - 04	Drinking Water	12/04/23 06:19
S56324.05	Room 116 - 05	Drinking Water	12/04/23 06:24
S56324.06	Room 124B - 06	Drinking Water	12/04/23 06:28
S56324.07	Room 124D - 07	Drinking Water	12/04/23 06:29
S56324.08	Library - 08	Drinking Water	12/04/23 06:32
S56324.09	Room 131	Drinking Water	12/04/23 06:34



Lab Sample ID: S56324.01

Sample Tag: Room 120 - 01

Collected Date/Time: 12/04/2023 06:13

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:30, Analyst: JRH

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



Lab Sample ID: S56324.02

Sample Tag: Room 119 - 02

Collected Date/Time: 12/04/2023 06:15

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:31, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.006	0.001		mg/L	2	7439-92-1		0.015



Lab Sample ID: S56324.03

Sample Tag: Room 118 - 03

Collected Date/Time: 12/04/2023 06:17

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:32, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.004	0.001		ma/l	2	7439-92-1		0.015



Lab Sample ID: S56324.04

Sample Tag: Room 117 - 04

Collected Date/Time: 12/04/2023 06:19

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:34, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.010	0.001		ma/l	2	7439-92-1		0.015



Lab Sample ID: S56324.05

Sample Tag: Room 116 - 05

Collected Date/Time: 12/04/2023 06:24

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:35, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.014	0.001		mg/L	2	7439-92-1		0.015



Lab Sample ID: S56324.06

Sample Tag: Room 124B - 06

Collected Date/Time: 12/04/2023 06:28

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:36, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.003	0.001		mg/L	2	7439-92-1		0.015



Lab Sample ID: S56324.07

Sample Tag: Room 124D - 07

Collected Date/Time: 12/04/2023 06:29

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:38, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.003	0.001		mg/L	2	7439-92-1		0.015



Lab Sample ID: S56324.08

Sample Tag: Library - 08

Collected Date/Time: 12/04/2023 06:32

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.006	0.001		mg/L	2	7439-92-1		0.015



Lab Sample ID: S56324.09

Sample Tag: Room 131

Collected Date/Time: 12/04/2023 06:34

Matrix: Drinking Water COC Reference: 169862

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.005	0.001		mg/L	2	7439-92-1		0.015

Merit Laboratories Login Checklist

Lab Set ID:S56324

Client: ERG (Environmental Resource Group)

Project: 230029

Submitted: 12/04/2023 09:00 Login User: MMC

Attention: Kristin Peterson

Address: Environmental Resource Group 3125 Sovereign Dr. Lansing, MI 48911

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Selection				Description	Note
Sample R	eceivi	ng			
01.	Yes	X No	□ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 15.4
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 C	Custo	dy			
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:	
Preservat	ion				
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 Co	nditio	ns			
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 or TOX bottles contain headspace	

Corrective action for	or all exceptions is	to call the client	and to notify	the project ma	nager.
Oliant Daview Dw			Data		
Client Review By: _.			Date:		

Merit Laboratories Bottle Preservation Check

Lab Set ID: S56324 Submitted: 12/04/2023 09:00

Client: ERG (Environmental Resource Group)

Project: 230029

Initial Preservation Check: 12/04/2023 09:28 MMC

Preservation Recheck (E200.8): N/A

Attention: Kristin Peterson

Address: Environmental Resource Group

3125 Sovereign Dr. Lansing, MI 48911

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S56324.01	1L Plastic HNO3	<2			
S56324.02	1L Plastic HNO3	<2			
S56324.03	1L Plastic HNO3	<2			
S56324.04	1L Plastic HNO3	<2			
S56324.05	1L Plastic HNO3	<2			
S56324.06	1L Plastic HNO3	<2			
S56324.07	1L Plastic HNO3	<2			
S56324.08	1L Plastic HNO3	<2			
S56324.09	1L Plastic HNO3	<2			

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

c.o.c. page #\ of _\ 169862	C.O.C. PAGE #	\ OF	16	98	362
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APPENDIX C

Water Sample Data Sheet and Analytical Data for December 5, 2023





PROJECT NUMBER	230029	DATE:	12/5/2023
	200020	2, 1, 2,	, _,

PROJECT Public Montessori at Central

SAMPLED BY	Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY Merit Tech Labs

WATER SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results PPB
1	L	Bottle Fill Station Lobby	6:21	ND
2	L	Room 121 Sink	6:25	49

mg/L=PPM ppm/1000=PPB SAMPLE TYPE L-Lead in water



Report ID: S56363.01(01) Generated on 12/05/2023

Report to

Attention: Kristin Peterson
Environmental Resource Group
28003 Center Oaks Court, Suite 106

Wixom, MI 48393

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Addtional Contacts: John Kemp

Report Summary

Lab Sample ID(s): S56363.01-S56363.02

Project: 230029 Okemos Central Collected Date(s): 12/05/2023

Submitted Date/Time: 12/05/2023 08:12

Sampled by: Kristin Peterson

P.O. #:

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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)

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)

Maya Murshak Technical Director

Naya Mushah



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.

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

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	7 #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
В	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
Н	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
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
X	Elevated reporting limit due to matrix interference
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	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



Method Summary

Method Version

E200.8 EPA Method 200.8 Revision 5.4

SW3015A SW 846 Method 3015A Revision 1 February 2007

Report to Environmental Resource Group Project: 230029 Okemos Central

Page 4 of 7

Generated on 12/05/2023 Report ID: S56363.01(01)



Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56363.01	Bottle fill station Lobby - 01	Drinking Water	12/05/23 06:21
S56363.02	Room 121	Drinking Water	12/05/23 06:25



Lab Sample ID: S56363.01

Sample Tag: Bottle fill station Lobby - 01 Collected Date/Time: 12/05/2023 06:21

Matrix: Drinking Water COC Reference: 169869

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 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



Lab Sample ID: S56363.02

Sample Tag: Room 121

Collected Date/Time: 12/05/2023 06:25

Matrix: Drinking Water COC Reference: 169869

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	15.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	12/05/23 09:30	JRH	

Metals

Method: E200.8, Run Date: 12/05/23 11:50, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.049	0.001		mg/L	2	7439-92-1	!	0.015

!-Result is outside of stated limit criteria

Merit Laboratories Login Checklist

Lab Set ID:S56363

Client: ERG (Environmental Resource Group)

Project: 230029 Okemos Central

Submitted: 12/05/2023 08:12 Login User: MMC

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

Selec	ction			Description	Note
Sam	ole Receiv	ving			
01.	Yes	X No	□ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 15.8
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	
Chai	n of Custo	ody			
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:	
Pres	ervation				
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?	
Bottl	e Conditio	ons			
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 or TOX bottles contain headspace	
Corr	active activ	on for all	evcentions	is to call the client and to notify the project manager.	
Clier	t Review I	Ву:		Date:	

Merit Laboratories Bottle Preservation Check

Lab Set ID: S56363 Submitted: 12/05/2023 08:12

Client: ERG (Environmental Resource Group)

Project: 230029 Okemos Central

Initial Preservation Check: 12/05/2023 09:12 MMC

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@ergrp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S56363.01	1L Plastic HNO3	<2			
S56363.02	1L Plastic HNO3	<2			

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

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APPENDIX D Water Sample Data Sheet and Analytical Data for January 4, 2023



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PROJECT NUMBER	230029	DATE:	1/4/2024
FINOSECT MOINIDEN	230029	DAIL.	1/4/20

PROJECT Public Montessori at Central SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools ANALYZED BY Merit Tech Labs

WATER SAMPLE DATA SHEET

HEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results PPB
1	L	Bottle fill station across from the Women's Bathroom	15:30	ND

mg/L=PPM ppm/1000=PPB SAMPLE TYPE L-Lead in water

Report ID: S57380.01(01) Generated on 01/05/2024

Report to

Attention: Kristin Peterson
Environmental Resource Group
28003 Center Oaks Court, Suite 106

Wixom, MI 48393

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Addtional Contacts: John Kemp, Phillip Peterson

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): S57380.01

Project: 230029 Okemos Public Motessori at Central

Collected Date(s): 01/04/2024

Submitted Date/Time: 01/04/2024 15:33

Sampled by: Unknown

P.O. #:

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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

Naya Mushah

Preliminary Report

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.

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

Preliminary report sent to meet rush turnaround time. Missing required sampler name and collection time for sample.

Final report will be sent once required sample information is received.



Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	7 #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
В	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
Н	Sample submitted and run outside of holding time
1	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
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
X	Elevated reporting limit due to matrix interference
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	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



Preliminary Report

Method Summary

Method Version

E200.8 EPA Method 200.8 Revision 5.4

SW3015A SW 846 Method 3015A Revision 1 February 2007



Preliminary Report

Sample Summary (1 samples)

Sample IDSample TagMatrixCollected Date/TimeS57380.01Bottle fill across from Womens restroom East WingDrinking Water01/04/24 00:01

Preliminary Report

Lab Sample ID: S57380.01

Sample Tag: Bottle fill across from Womens restroom East Wing

Collected Date/Time: 01/04/2024 00:01

Matrix: Drinking Water COC Reference:

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	Yes	16.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	01/05/24 10:00	JRH	

Metals

Method: E200.8, Run Date: 01/05/24 11:28, Analyst: JRH

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

Merit Laboratories Login Checklist

Lab Set ID:S57380

Client: ERG (Environmental Resource Group)
Project: 230029 Okemos Public Motessori at Central

Submitted: 01/04/2024 15:33 Login User: MMC

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. Yes X No	☐ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 16.4					
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. Yes X No	N/A	COC adequately filled out	Missing sampler name and collection time					
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 or TOX bottles contain headspace						
Corrective action for al	I exception	s is to call the client and to notify the project manager.						
Client Review By:		Date:						

Merit Laboratories Bottle Preservation Check

Lab Set ID: S57380 Submitted: 01/04/2024 15:33

Client: ERG (Environmental Resource Group)

Project: 230029 Okemos Public Motessori at Central

Initial Preservation Check: 01/04/2024 15:55 MMC

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@ergrp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S57380.01	1L Plastic HNO3	<2			

AGE	-6	
AGE	of	



Client Name: ERG				PARAMETERS					Matrix Code			
Contact Person: K. Peterson	cope	drakin	in water							ı	S Soil Gw Ground Water	
Project Name/ Number: 33000 9 Project Location: Polytemes Motesson at Centeral	OR CO	P	Ua							- 1	A Air SW Surface Water	
Email Distribution List:	NER E		13		1 1					MPLE	O Oil W Wastewater	
Email Distribution List: Krustin, Peterson Cergap, Not Phillip, Peterson Cersop, Net	(SEE RIGHT CORNER FOR	OF CONTAINERS								HOLD SAMPLE	B Bulks X Other: Specify	
Phone No.:	×	NOC	Lead			- 1					× ·	
Purchase Order No.:	MATRIX	OF 0	Le									
Date Time Sample # Client Sample Descriptor 1/4/2-01 Bottle fill across 1/4/2-01 Bottle fill across	X	# l	×		+	+		T		7	Remarks:	
restroom Eastwing												
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	\vdash	_		++	+	-	+	+		\dashv		
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Refinquished By:	Date/	Time 54/2	Received By: Recei					Murray 1/4/24 1533				
Relinquished By:						Receive	d By L	aborat	ory:			
Turnaround Time ALL RESULTS WILL BE SENT BY THE END	OF TH	E BUSIN	NESS DAY			V		T			LAB USE ONLY	
Same day1 bus. day2 bus. days by Cob to morriw		3 t	ous. days	1.	·	4 bus. d	ays	ER	G projec	t nur	mber:	
5-7 bus, days (standard) Other (specify time/date requirement):									mperatu applicak		oon receipt at Lab	
Please see back for terms and conditions												