

February 5, 2024

Jason Bichler  
Director of Buildings and Grounds  
St. Michael-Albertville ISD #885  
11343 50<sup>th</sup> Street NE  
Albertville, MN 55301



**RE: Lead-in-Water First Draw – Follow-up Testing #2  
IEA Project #202310887**

Dear Mr. Bichler:

At the request of St. Michael-Albertville ISD #885, IEA, Inc. (IEA) collected six (6) follow-up water samples for lead analyses in response to previously elevated sample results. This current sampling occurred on January 25, 2024. The purpose of the sampling was to document lead content of water in the six (6) locations post-remediation and to compare the results to initial “first draw” sampling conducted on November 14-15, 2023, as well as the follow-up sampling conducted on January 9, 2024, and document current lead content in the sampled locations regarding the district designated action level of 5 parts per billion (ppb).

## INTRODUCTION

Minnesota Statute 121A.335 requires public school buildings serving pre-kindergarten through grade 12 to test for lead in potable water fixtures every five years. The *3Ts for Reducing Lead in Drinking Water Toolkit (2018)* and the Lead Contamination Control Act (LCCA) of 1988 were created by the Environmental Protection Agency (EPA) to identify and reduce lead in drinking water. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead content in water may increase when the water is allowed to sit undisturbed in the system. Exposure to lead is a health concern.

The EPA recommends taking action when elevated lead levels are noted in water fixtures. The MDH and MDE recommend taking a fixture out of service if levels are 20 parts per billion (ppb) or higher. The MDH and MDE also recommend taking action according to their guidelines for fixtures with levels of 2 parts per billion (ppb) or higher.

First draw samples, collected on November 14-15, 2023, showed one hundred forty-five (145) samples had elevated lead content above the Action Level. Follow-up first draw samples collected on January 9, 2024, showed six (6) samples in Room H106 at Middle School West had elevated lead content above the Action Level after the fixtures were replaced. This round of follow-up sampling is occurring to measure the lead content after filters have been installed for each fixture.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
9201 West Broadway, #600  
Brooklyn Park, MN 55445  
763-315-7900 / FAX 763-315-7920  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-5301  
800-233-9513

ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6695  
800-233-9513

BRAINERD  
601 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0703  
800-233-9513

MARSHALL  
1420 East College Drive  
Marshall, MN 56258  
507-476-3599 / FAX 507-537-6985  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

## METHODOLOGY

IEA collected six (6) first-draw (unless otherwise noted) samples of approximately 250 milliliters (ml) of water. “First draw” means the samples are collected before the fixture is used or flushed during the day. The first-draw sample results reflect a worst-case scenario, i.e., the highest lead level that would be consumed by building occupants. MDH recommends water stand in pipes for at least 8 hours, but not more than 18 hours prior to sampling identified fixtures.

Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota, which uses EPA-approved analytical methods and quality control/assurance procedures. Samples were analyzed using the ICP/MS EPA Method 200.8.

## RESULTS & DISCUSSION

The lead-in-water sampling results ranged from 1.67 ppb to 3.29 ppb. These six (6) locations are displayed in *Table 1: Water Testing Results*. The laboratory reports are provided in Appendix A. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to ppb.

**Table 1: Water Testing Results – November 14 and 15, 2023, January 9, 2024, and January 25, 2024**

Sample Number	Building	Sampling Location	Fixture Type	Remediation Method	Lead Results (ppb)		
					11/14/2023 or 11/15/2023	1/9/2024	1/25/2024
01252024MSW-1	Middle School West	Room H106 North Wall	Sink	Fixture Replaced and Filter Installed	17.6	7.53	2.02
01252024MSW-2	Middle School West	Room H106 West Wall Middle	Sink	Fixture Replaced and Filter Installed	19	5.98	2.29
01252024MSW-3	Middle School West	Room H106 West Wall South	Sink	Fixture Replaced and Filter Installed	13.3	7.67	2.53
01252024MSW-4	Middle School West	Room H106 South Wall West	Sink	Fixture Replaced and Filter Installed	16.1	6.28	1.67
01252024MSW-5	Middle School West	Room H106 South Wall Middle	Sink	Fixture Replaced and Filter Installed	11.4	9.23	3.29
01252024MSW-6	Middle School West	Room H106 South Wall East	Sink	Fixture Replaced and Filter Installed	15.8	5.98	1.71

ppb – parts per billion

## RECOMMENDATIONS

All six (6) re-sampled fixtures from the January 25, 2024, sampling showed lead level(s) below the district designated action level of 5 ppb. Based on the sample result(s), no further action is required at this time.

In addition, MDH recommends labeling water fixtures not included in the sampling program, including bathroom taps, hose bibbs, laboratory faucets/sinks, or custodial closet sinks.

It is recommended that a copy of the district's Lead-in-Drinking Water Testing Report be made available to staff and the public through the district's administrative offices. Per Minnesota Statutes, section 121A.335, a school district that has tested its buildings for the presence of lead shall make the results of the testing available to the public for review and must notify parents of the availability of the information.

## GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from St. Michael-Albertville ISD #885 at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and safety practices. Other than as provided in the preceding sentence and in our Proposal #11536 dated August 15, 2023, regarding lead-in-water sampling for St. Michael-Albertville ISD #885, including the General Conditions attached thereto, no warranties are extended or made.

Please contact IEA if you would like assistance with any of the above recommendations or have questions regarding this report.

Sincerely,

IEA, Inc.



Daniel Holcomb, CSP, CHMM  
EH&S Senior Account Manager

DH/wb 020524

Enc.

# **Appendix A**

*Laboratory Testing Reports and Building Maps*

**MINNESOTA VALLEY TESTING LABORATORIES, INC.**

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890  
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724  
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885  
www.MVTL.com



**Workorder:** Middle School West (39480)  
**Account #:** 2190  
**Project #:** 202310887

**Client:** Institute for Environmental Assessment (IEA)  
**PO:** 202310887

Emma Squires-Sperling  
IEA / Brooklyn Park  
9201 W Broadway Suite #600  
Brooklyn Park, MN 55445

**Certificate of Analysis****Approval**

All data reported has been reviewed and approved by:

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:  
MN LAB # 027-015-125ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:  
MN LAB # 038-999-267ND W/DW # ND-016

**Workorder Comments**

All samples were preserved with nitric acid upon receipt at the laboratory.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Friday, February 2, 2024 11:24:47 AM

**MINNESOTA VALLEY TESTING LABORATORIES, INC.**

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1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885  
www.MVTL.com

**Workorder:** Middle School West (39480)**Client:** Institute for Environmental Assessment (IEA)**Analytical Results**

**Lab ID:** 39480001 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-1 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 North Wall-SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	2.02	ug/L	15	EPA 200.8	02/01/2024 17:31	

**Lab ID:** 39480002 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-2 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 West Wall-Middle SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	2.29	ug/L	15	EPA 200.8	02/01/2024 17:32	

**Lab ID:** 39480003 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-3 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 West Wall-South SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	2.53	ug/L	15	EPA 200.8	02/01/2024 17:33	

**Lab ID:** 39480004 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-4 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 South Wall-West SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	1.67	ug/L	15	EPA 200.8	02/01/2024 17:34	

**Lab ID:** 39480005 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-5 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 South Wall-Middle SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	3.29	ug/L	15	EPA 200.8	02/01/2024 17:35	

**Lab ID:** 39480006 **Date Collected:** 01/25/2024 07:00 **Matrix:** Potable Water  
**Sample ID:** 01252024MSW-6 **Date Received:** 01/25/2024 13:30  
**Temp @ Receipt (C):**  
**Sample Desc:** Room H106 South Wall-East SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	1.71	ug/L	15	EPA 200.8	02/01/2024 17:36	

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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**Workorder:** Middle School West (39480)

**Client:** Institute for Environmental Assessment (IEA)

Institute for Environmental  
WO: 39480



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**Workorder:** Middle School West (39480)

**Client:** Institute for Environmental Assessment (IEA)

1 of 1

39480

### Chain of Custody

9201 West Broadway North, Suite 600  
Brooklyn Park, MN 55449  
763.315.7900 1.800.213.9513



Client Name		St. Michael-Albertville ISD #885		Building Name		Middle School West		Analytical Lab		MVTL					
Contact Name		Emma Squires-Sperling Daniel Holcomb		Project #		202310887		Project Name		2023-2024 STMA LIW					
Phone #		763-315-7900		IEA Fax #		763-315-7927		Written Sample Results To		lab@stmaisd.com					
Other Information															
Sampled By				Daniel Holcomb		Date		1/25/2024		Time		7:00 AM			
Reviewed By						Date				Analyzed By (Company)		Analyst		Date & Time	
Shipped By				Daniel Holcomb		Date		1/26/2024		Time		Turnaround Time		Notes	
Received By						Date				Time		Sample Condition		Temperature	
Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations						
			Water	Soil	Other										
	01252024MSW-1	Room H106 North Wall - SNK	X			1/25/2024	250mL unpreserved	Lead							
	01252024MSW-2	Room H106 West Wall - Middle SNK	X			1/25/2024	250mL unpreserved	Lead							
	01252024MSW-3	Room H106 West Wall - South SNK	X			1/25/2024	250mL unpreserved	Lead							
	01252024MSW-4	Room H106 South Wall - West SNK	X			1/25/2024	250mL unpreserved	Lead							
	01252024MSW-5	Room H106 South Wall - Middle SNK	X			1/25/2024	250mL unpreserved	Lead							
	01252024MSW-6	Room H106 South Wall - East SNK	X			1/25/2024	250mL unpreserved	Lead							

H-P 25 Jan 24 0940 AMB

H-P 25 Jan 24 1530 18.8 AMB

AMB SS 25 JAN 24 1330 18.8C TM774

Original - Analytical Lab  
Copy - Client File  
Copy - IEA Lab

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www.MVTL.com



Workorder: Middle School West (39480)

Client: Institute for Environmental Assessment (IEA)

## Sample Condition Checklist

Date: 25 JAN 24 Time: 1330 ☐ AM ☒ PM By: SJ

Account Name: St. Michael-Albertville ISD Account #

Bill of Lading #: MSW Cooler #

Temp: 18.8 °C ROI ☐ Ambient ☒ Tracking #

TM#: 774 Ice Crystals Present in Sample ☐

MVTL Courier: Dan Other:

MVTL Route: Metro Walk-In ☐ UPS Air ☐ FedEx Air ☐ SpeedDee ☐

Mail ☐ UPS Ground ☐ FedEx Ground ☐

Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Number	Containers Size (mL)	Container Type	Preservation	pH
6	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G) (P) (AG) (AP)	NaHSO <sub>4</sub> Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> NONE HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl SUB*	<2 >9 >12 N/A Add
**I DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!**				
Low Level Mercury Kit				
4 oz Jar	Clear Amber	MeOH	None	n/a
2 oz Jar	Clear Amber	MeOH	None	n/a
Vials Individual Set of 2 Set of 3	Clear Amber	HCl H <sub>3</sub> PO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub> None		n/a
Vials Individual Set of 2 Set of 3	Clear Amber	HCl H <sub>3</sub> PO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub> None		n/a
Trip Blank Individual Set of 2 Set of 3			n/a	
Moisture Vial			n/a	
Manure Bottle			n/a	

\*ANY CONTAINER SENT TO A SUBCONTRACT LABORATORY WILL NOT BE CHECKED FOR PRESERVATION!

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# LEGEND

- SINK
- RE-SAMPLED
- X NON-OPERABLE

