

May 14, 2024

Eric Hamilton
Director of Buildings & Grounds
Edina Public Schools
5701 Normandale Road
Edina, MN 55424



**RE: Four (4) Locations
Lead-in-Water First Draw – Follow-up Testing
IEA Project #202311239**

Dear Mr. Hamilton:

At the request of Edina Public Schools, IEA, Inc. (IEA) collected sixteen (16) follow-up water samples from fourteen (14) locations for lead analyses in response to previously-elevated sample results. This current sampling occurred on December 22, 2023, with subsequent testing on February 9, 2024, after remediation activities had been completed. The purpose of the sampling was to document lead content of water in the fourteen (14) locations post-remediation and to compare the results to initial “first draw” sampling conducted during previous samplings, and document current lead content in the sampled locations with regard to the changes to lead-in-water legislation (see Minnesota Statute Sec. 121A.335 Lead in School Drinking Water).

INTRODUCTION

Minnesota Statute 121A.335 requires public school buildings serving pre-kindergarten-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 action according to their guidelines for fixtures with levels of 2 parts per billion (ppb) or higher. Per updates made to Minnesota Statute 121A.335, Edina Public Schools has decided to pursue retesting in order to ensure that all fixtures in the District are below the 5 ppb required action level.

First draw samples taken within the last 5 years showed fourteen (14) fixtures had elevated lead content above the desired level of 5 ppb. The District employed various remediation methods to ensure that this desired level of 5 ppb was achieved.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.
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

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

BRAINERD
601 NW 5th 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 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.

IEA collected fourteen (14) samples on the first round of re-tests and two (2) samples on the second round of re-tests.

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 below the level of detection (<0.5 ppb) to 52.9 ppb on the first round of retesting, and from 5.82 to 10.3 ppb on the second round of retesting. These locations are displayed in the tables below. 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: Cornelia Elementary School Water Testing Results

Sample Number	Sample Location	Fixture Type	Remediation Method	Lead Results (ppb)	
				Previous Testing	12/22/23
12223CCES-01	Kitchen – East	Kitchen Sink	Fixture Replaced	16.0	.71
12223CCS-02	Room 26 – South	Sink	Posted Handwashing Only Sign	35.1	52.9

ppb – parts per billion

Table 2: Creek Valley Elementary School Water Testing Results

Sample Number	Sampling Location	Fixture Type	Remediation Method	Lead Results (ppb)		
				Previous Testing	12/22/23	2/19/24
12223CVES-01	Room 102	Sink	Cleaned Aerator	6.57	3.13	-
12223CVES-02	Room 206-Right	Sink	Cleaned Aerator	5.01	3.54	-
12223CVES-03	Room 202	Sink	Posted Handwashing Only Sign	8.23	5.96	5.82

ppb – parts per billion

Table 3: Edina High School Water Testing Results

Sample Number	Sampling Location	Fixture Type	Remediation Method	Lead Results (ppb)		
				Previous Testing	12/22/23	2/19/24
12223EHS-01	E240 Kitchen-3	Kitchen Sink	Cleaned Aerator	5.99	<0.5	-
12223EHS-02	Kitchen-1	Steam Kettle	Fixture Removed	5.48	5.66	10.3
12223EHS-03	Near Room S360-H	Sink	Cleaned Aerator	9.57	.59	-

ppb – parts per billion

Table 4: Highlands Elementary School Water Testing Results

Sample Number	Sample Location	Fixture Type	Remediation Method	Lead Results (ppb)	
				Previous Testing	12/22/23
12222HES-01	Art Room 32-SE	Sink	Cleaned Aerator	5.07	.71
12222HES-02	Room 28-Right	Sink	Cleaned Aerator	5.24	4.46
12222HES-03	Room 18	Sink	Cleaned Aerator	6.31	3.18
12222HES-04	Office Inside Media Center	Sink	Cleaned Aerator	6.97	3.86
12222HES-05	Kitchen-SE	Sink	Posted Handwashing Only Sign	19.8	16.6
12222HES-06	Room 22	Sink	Cleaned Aerator	11.1	2.45

ppb – parts per billion

RECOMMENDATIONS

Ten (10) of the re-sampled fixtures showed lead levels below the MDH required action level of 5 ppb. The four (4) fixtures with lead levels above 5 ppb were removed from service or marked as non-potable. Based on the sample results, as well as the remediation actions taken for those that were still above 5 ppb, no further action is required at this time.

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. Any fixtures with lead content above 5 ppb must be remediated and verified with re-sampling within 30 days or the district must notify parents of the elevated results.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from Edina Public Schools 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 #11711 dated November 16, 2023, regarding lead-in-water follow-up sampling in the District 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.

Reviewed by:



Jack Skluzacek
EH&S Account Manager



Mary Ferrian, CSP
EHS Division Manager

JS/wb 050324

Enc.

Appendix A

Laboratory Testing Report

**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: Cornelia Elementary School (37687)
Account #: 2190
Project #: 202311239

Client: Institute for Environmental Assessment (IEA)
PO: 202311239

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: Thursday, January 4, 2024 6:49:24 AM

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**Workorder:** Cornelia Elementary School (37687)**Client:** Institute for Environmental Assessment (IEA)**Analytical Results**

Lab ID:	37687001	Date Collected:	12/22/2023 07:00	Matrix:	Potable Water
Sample ID:	122223CCES-01	Date Received:	12/29/2023 13:15		
Temp @ Receipt (C):					
Sample Desc:	Kitchen-East KS				

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	0.71	ug/L	15	EPA 200.8	01/02/2024 13:23	

Lab ID:	37687002	Date Collected:	12/22/2023 07:00	Matrix:	Potable Water
Sample ID:	122223CCES-02	Date Received:	12/29/2023 13:15		
Temp @ Receipt (C):					
Sample Desc:	Room 26-South SNK				

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	52.9	ug/L	15	EPA 200.8	01/03/2024 12:05	

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Workorder: Cornelia Elementary School (37687)

Client: Institute for Environmental Assessment (IEA)

Institute for Environmental
WO: 37687



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Workorder: Cornelia Elementary School (37687)

Client: Institute for Environmental Assessment (IEA)

1 of 7

37687

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

[illegible]

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

CM 29 DEC 73 1315 170C TM 771

W-104 29 Dec-23 1315 AMB

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Workorder: Cornelia Elementary School (37687)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 29 DEC 23 Time: 1:15 PM AM ☐ PM ☒ By: CM
Account Name: IEA Account #
Bill of Lading #:
Temp: 17.0 °C ROI ☐ Ambient ☐
TM#: 771 Ice Crystals Present in Sample ☐
Tracking #:
MVTL Courier: Dan Other: Cornelia Elem
MVTL Route: Metro Walk-In ☐ UPS Air ☐ FedEx Air ☐ Speedee ☐
Mall ☐ UPS Ground ☐ FedEx Ground ☐
Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Comments:												pH						
Number	Containers Size (mL)	Container Type				Preservation												
2	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	!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 ₃ PO ₄	H ₂ SO ₄	None				n/a			
	Vials Individual Set of 2 Set of 3	Clear	Amber					HCl	H ₃ PO ₄	H ₂ SO ₄	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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Workorder: Creek Valley Elementary (37686)
Account #: 2190
Project #: 202311239

Client: Institute for Environmental Assessment (IEA)
PO: 202311239

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:

Jason Smith, Production Director 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.

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Report Date: Tuesday, January 2, 2024 2:47:55 PM

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**Workorder:** Creek Valley Elementary (37686)**Client:** Institute for Environmental Assessment (IEA)**Analytical Results**

Lab ID: 37686001 **Date Collected:** 12/22/2023 07:30 **Matrix:** Potable Water
Sample ID: 122223CVES-01 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: Room 102 SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	3.13	ug/L	15	EPA 200.8	01/02/2024 13:10	

Lab ID: 37686002 **Date Collected:** 12/22/2023 07:30 **Matrix:** Potable Water
Sample ID: 122223CVES-02 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: Room 206 Right SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	3.54	ug/L	15	EPA 200.8	01/02/2024 13:12	

Lab ID: 37686003 **Date Collected:** 12/22/2023 07:30 **Matrix:** Potable Water
Sample ID: 122223CVES-03 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: Room 202 SNK

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	5.96	ug/L	15	EPA 200.8	01/02/2024 13:13	

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Workorder: Creek Valley Elementary (37686)

Client: Institute for Environmental Assessment (IEA)

Institute for Environmental

WO: 37686



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Workorder: Creek Valley Elementary (37686)

Client: Institute for Environmental Assessment (IEA)

1 of 7

37680

Chain of Custody

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Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

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

CM 29 Dec 23 1315 17.0c TM 771 LPR 29 Dec 23 1315 AMB

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Workorder: Creek Valley Elementary (37686)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 29 DEC 23 Time: 1315 ☐ AM ☒ PM By: CM
Account Name: IEA Account # _____
Bill of Lading #: _____ Cooler #: _____
Temp: 17.0 °C ROI ☐ Ambient ☐ Tracking #: _____
TM#: 771 Ice Crystals Present in Sample ☐
MVTL Courier: Dan Other: Creek Valley Elm
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

Comments:		pH																	
Number	Containers Size (mL)	Container Type				Preservation				pH									
3	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add	
!!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 ₃ PO ₄	H ₂ SO ₄	None				n/a					
	Vials Individual Set of 2 Set of 3	Clear	Amber	HCl				H ₃ PO ₄	H ₂ SO ₄	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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Report Date: Tuesday, January 2, 2024 2:47:55 PM

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



Workorder: Creek Valley Elementary School (40602)
Account #: 2190
Project #: 202310882

Client: Institute for Environmental Assessment (IEA)
PO: 202310882

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.

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Report Date: Monday, February 19, 2024 10:52:20 AM



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Workorder: Creek Valley Elementary School (40602)

Client: Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID:	40602001	Date Collected:	02/09/2024 07:30	Matrix:	Potable Water	
Sample ID:	020924CVES-1	Date Received:	02/12/2024 14:14			
Temp @ Receipt (C):						
Sample Desc:	Room 202-SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	5.82	ug/L	15	EPA 200.8	02/16/2024 15:47	

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Report Date: Monday, February 19, 2024 10:52:20 AM



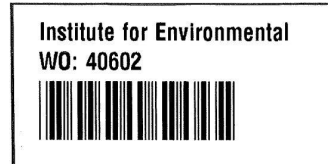
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Workorder: Creek Valley Elementary School (40602)

Client: Institute for Environmental Assessment (IEA)



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www.MVTL.com



Workorder: Creek Valley Elementary School (40602)

Client: Institute for Environmental Assessment (IEA)

40602

Chain of Custody

5201 West Broadway North, Suite 600
Brooklyn Park, MN 55443
763.315.7900 1.800.233.9315

Client Name		Edina Public Schools		Building Name		Creek Valley Elementary School		Analytical Lab		MVTL	
Contact Name		Emma Squires-Sperling		Project #		202310882		Project Name		2024 LIW Retesting	
Phone #				IEA Fax #		763-315-7927		Written Sample Results To		lab@masafety.com	
Other Information											
Sampled By		Jack Skluzacek		Date		2/9/2024		Time		7:30 AM	
Shipped By		Wendy Barcus		Date		2/12/2024		Time		9:00 AM	
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						
	020924CVES-1	Room 202 - SNK	X			2/9/2024	250mL unpreserved	Lead			

007

SP 12 Feb 24 0845 AMS
SP 12 Feb 24 1414 b.o
SP 12 Feb 24 1414
ROI 1.0 771

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

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Workorder: Creek Valley Elementary School (40602)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 12 Feb 24 Time: 1414 ☐ AM ☒ PM By: SP

Account Name: IEA - CVES Account #: -

Bill of Lading #: - Cooler #: -

Temp: 1.0 °C ROI ☒ Ambient ☐ Tracking #: -

TM#: 771 Ice Crystals Present in Sample ☐ Other: -

MVTL Courier: Dan

MVTL Route: Metro Walk-in ☐ UPS Air ☐ FedEx Air ☐ Speedee ☐
Mail ☐ UPS Ground ☐ FedEx Ground ☐

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

Comments:												pH	
Number	Containers Size (mL)	Container Type				Preservation							
1	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*
Low Level Mercury Kit													
!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!													
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 ₃ PO ₄	H ₂ SO ₄	None				n/a
Vials Individual Set of 2 Set of 3		Clear	Amber			HCl	H ₃ PO ₄	H ₂ SO ₄	None				n/a
Trip Blank Individual Set of 2 Set of 3													n/a
Moisture Vial													n/a
Manure Bottle													n/a

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Report Date: Monday, February 19, 2024 10:52:20 AM

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www.MVTL.com



Workorder: Edina High School (37688)
Account #: 2190
Project #: 202311239

Client: Institute for Environmental Assessment (IEA)
PO: 202311239

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

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Report Date: Thursday, January 4, 2024 6:49:40 AM

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**Workorder:** Edina High School (37688)**Client:** Institute for Environmental Assessment (IEA)**Analytical Results**

Lab ID: 37688001 **Date Collected:** 12/22/2023 06:00 **Matrix:** Potable Water
Sample ID: 122223EHS-01 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: E240 Kitchen KS 3

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	<0.5	ug/L	15	EPA 200.8	01/02/2024 13:24	

Lab ID: 37688002 **Date Collected:** 12/22/2023 06:00 **Matrix:** Potable Water
Sample ID: 122223EHS-02 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: Kitchen STK 1

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	5.66	ug/L	15	EPA 200.8	01/03/2024 12:03	

Lab ID: 37688003 **Date Collected:** 12/22/2023 06:00 **Matrix:** Potable Water
Sample ID: 122223EHS-03 **Date Received:** 12/29/2023 13:15
Temp @ Receipt (C):
Sample Desc: By Room S360 Sink H

Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	0.59	ug/L	15	EPA 200.8	01/02/2024 13:25	

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Workorder: Edina High School (37688)

Client: Institute for Environmental Assessment (IEA)

Institute for Environmental
WO: 37688



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Workorder: Edina High School (37688)

Client: Institute for Environmental Assessment (IEA)

1 of 7

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

[illegible]

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

CM 29 DEC 23 1315 1700 TM 77 HPL 29 Dec 23 1315 AME

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Workorder: Edina High School (37688)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 29 DEC 23 Time: 1:15 PM AM ☐ PM ☒ By: CM

Account Name: IEA-EHS Account #

Bill of Lading #

Temp: 17.0 °C ROI ☐ Ambient ☐ Tracking #

TM#: 771 Ice Crystals Present in Sample ☐

MVTL Courier: Dan Other: Edina High

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

Mail ☐ UPS Ground ☐ FedEx Ground ☐

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

Comments:								pH								
Number	Containers Size (mL)	Container Type		Preservation												
3	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P) (AG) (AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	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 ₃ PO ₄	H ₂ SO ₄	None		n/a				
Vials	Individual	Set of 2	Set of 3	Clear	Amber	HCl		H ₃ PO ₄	H ₂ SO ₄	None		n/a				
Trip Blank		Individual	Set of 2	Set of 3	n/a											
Moisture Vial		n/a														
Manure Bottle		n/a														

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Workorder: Creek Valley Elementary School (40601)
Account #: 2190
Project #: 202310882

Client: Institute for Environmental Assessment (IEA)
PO: 202310882

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

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Report Date: Monday, February 19, 2024 10:52:19 AM



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Workorder: Creek Valley Elementary School (40601)

Client: Institute for Environmental Assessment (IEA)

Analytical Results

Lab ID:	40601001	Date Collected:	02/09/2024 07:30	Matrix:	Potable Water	
Sample ID:	020924EHS-1	Date Received:	02/12/2024 14:14			
Temp @ Receipt (C):						
Sample Desc:	Kitchen - STK 1					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	10.3	ug/L	15	EPA 200.8	02/16/2024 15:45	

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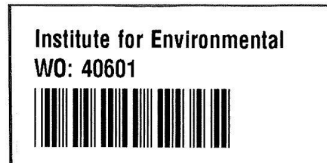
MINNESOTA VALLEY TESTING LABORATORIES, INC.

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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: Creek Valley Elementary School (40601)

Client: Institute for Environmental Assessment (IEA)



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Report Date: Monday, February 19, 2024 10:52:19 AM

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Workorder: Creek Valley Elementary School (40601)

Client: Institute for Environmental Assessment (IEA)

Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55440
763.315.7900 1.800.233.9511 IEA

Client Name		Edina Public Schools		Building Name		Creek Valley Elementary School		Analytical Lab		MVTL	
Contact Name		Emma Squires-Sperling		Project #		202310882		Project Name		2024 LIW Retesting	
Phone #				IEA Fax #		763-315-7927		Written Sample Results To		lab@ieasafety.com	
Other Information											
Sampled By		Jack Skluzacek		Date		2/9/2024		Time		7:30 AM	
Shipped By		Wendy Barcus		Date		2/12/2024		Time		9:00 AM	
Received By				Date				Sample Condition		Temperature	
Lab Number	Sample Number	Sample Location		Sample Type		Date Sampled		Volume/ Bottle Type		Analysis Required	
	020924EHS-1	Kitchen - STK 1		Water	Soil	Other	2/9/2024	250ml unpreserved	Lead	Comments & Observations	

APL 12 Feb 24 0845 AMB
APL 12 Feb 24 1414 1.0
SP 12 Feb 24 1414
RAI 1.0 771

Original - Analytical Lab
- Client File
- IEA Lab

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**Workorder:** Creek Valley Elementary School (40601)**Client:** Institute for Environmental Assessment (IEA)**Sample Condition Checklist**

Date: 12 Feb 24 Time: 1414 ☐ AM ☒ PM By: SP

Account Name: IEA - EHS Account #: -

Bill of Lading #: - Cooler #: -

Temp: 1.0 °C ROI ☒ Ambient ☐ Tracking #: -

TM#: 771 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

Comments:																									
Number	Containers Size (mL)						Container Type				Preservation						pH								
1	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100)	(120)	(125)	(250)	(290)	(500)	(1000)	Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	Low Level Mercury Kit								**!!DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!**																
	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 ₃ PO ₄		H ₂ SO ₄		None		n/a						
	Vials	Individual	Set of 2	Set of 3					Clear	Amber	HCl		H ₃ PO ₄		H ₂ SO ₄		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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Workorder: Highlands Elementary School (37685)
Account #: 2190
Project #: 202311239

Client: Institute for Environmental Assessment (IEA)
PO: 202311239

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:

Jason Smith, Production Director 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.

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Report Date: Tuesday, January 2, 2024 2:47:55 PM

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**Workorder:** Highlands Elementary School (37685)**Client:** Institute for Environmental Assessment (IEA)**Analytical Results**

Lab ID:	37685001	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-01	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Art Room 32-SE SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	0.71	ug/L	15	EPA 200.8	01/02/2024 13:03	

Lab ID:	37685002	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-02	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Room 28-Right SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	4.46	ug/L	15	EPA 200.8	01/02/2024 13:04	

Lab ID:	37685003	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-03	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Room 18-SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	3.18	ug/L	15	EPA 200.8	01/02/2024 13:05	

Lab ID:	37685004	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-04	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Office Inside Media Center-SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	3.86	ug/L	15	EPA 200.8	01/02/2024 13:07	

Lab ID:	37685005	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-05	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Kitchen-SE SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	16.6	ug/L	15	EPA 200.8	01/02/2024 13:08	

Lab ID:	37685006	Date Collected:	12/22/2023 08:00	Matrix:	Potable Water	
Sample ID:	122223HES-06	Date Received:	12/29/2023 13:15			
Temp @ Receipt (C):						
Sample Desc:	Room 22-SNK					
Parameter	Results	Units	MCL	Method	Analyzed	Qual
Lead	2.45	ug/L	15	EPA 200.8	01/02/2024 13:09	

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Workorder: Highlands Elementary School (37685)

Client: Institute for Environmental Assessment (IEA)



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Workorder: Highlands Elementary School (37685)

Client: Institute for Environmental Assessment (IEA)

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Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

[illegible]

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

CM 29 DEC 23 1315 1700 ^{of 1st} FM 771 29 Dec 23 1315 ^{2nd} FM 771

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Workorder: Highlands Elementary School (37685)

Client: Institute for Environmental Assessment (IEA)



Sample Condition Checklist

Date: 29 DEC 23 Time: 1:15 ☐ AM ☒ PM By: CM

Account Name: IEA Account # _____

Bill of Lading #: _____ Cooler #: _____

Temp: 17.0 °C ROI ☐ Ambient ☐ Tracking #: _____

TM#: 771 Ice Crystals Present in Sample ☐

MVTL Courier: Don Other: Highlands

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

Mail ☐ UPS Ground ☐ FedEx Ground ☐

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

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

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