November 14, 2024

Jeff Pesta
Wrenshall School District
207 Pioneer Drive
Wrenshall, Minnesota 55797

Providing Trusted
Health and Safety Solutions

RE: Districtwide Lead-in-Water First Draw – Initial Testing
IEA Project #202410910

Dear Mr. Pesta:

At the request of Wrenshall School District, the Institute for Environmental Assessment, Inc. (IEA) collected 58 water samples from identified water sources on October 17, 2024, and November 1, 2024, for lead analyses from the Wrenshall K12 School and the CTE Building.

The purpose of the sampling is to document lead content in the sampled locations to assist the District in complying with Minnesota Statute 121A.225.

INTRODUCTION

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.

Minnesota Statute 121A.335 requires public school buildings serving prekindergarten 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. Statute 121A.335 requires remediation of water fixtures with levels of 5 parts per billion (ppb) or higher.

METHODOLOGY

IEA collected 58 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 that fixtures are not used, eight to 18 hours prior to sampling fixtures.

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 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

The MDH strongly recommends fixtures not included in the water sampling be labeled for their intended use. This could include bathroom taps, hose bibbs, laboratory faucets/sinks, or custodial closet sinks. IEA did not sample any fixtures that were labeled non-potable.

Water samples were analyzed by RMB Environmental Laboratories, Inc. in Virginia, Minnesota, which uses EPA-approved analytical methods and quality control/assurance procedures. Samples were analyzed using the EPA Method 200.9.

RESULTS & DISCUSSION

The water analyses results are listed below in Table 1. Four sampled locations had lead content above the Minnesota Statute 121A.335 action level of five ppb. The laboratory reports are provided in Appendix A. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Results Exceeding 5 ppb – October 17, 2024, and November 1, 2024

Sample Number	Date Sampled	Building	Sampling Location	Fixture Type	Lead Results (ppb)
101724WS-46	October 17, 2024	Wrenshall K12 School	Room #226 Kitchen – Slop Sink	KF	6.28
101724WS-47	October 17, 2024	Wrenshall K12 School	Room #226 Kitchen – Back Far Right Corner	KF	17.8
101724WS-64	October 17, 2024	Wrenshall K12 School	Kitchen – Basement – Center Left	KF	5.17
101724WS-65	October 17, 2024	Wrenshall K12 School	Kitchen – Basement – Center Right	KF	21.2

ppb – parts per billion

CONCLUSIONS

Of the 58 fixtures sampled, four fixtures had lead levels above the Minnesota Statute 121A.335 action level of five ppb.

RECOMMENDATIONS

IEA recommends removing the fixtures with elevated lead content from service immediately. This can be completed by disconnecting the fixture from the water supply and/or posting signage noting the water is not potable. If additional water in the area is needed, bottled water meeting Food and Drug Administration (FDA) and State standards or another water source can be provided.

IEA recommends determining a remediation plan for the fixtures exceeding the indicated action level. IEA recommends selecting one of the following remediation options:

1) Determine if the fixture can be permanently changed to a non-potable fixture and label it accordingly. *(In this case, notification to parents, guardians, and staff within 30 days is required.)*
2) Disconnect the fixture from use permanently.
3) Remove, inspect, clean and/or replace aerators and retest to confirm a lower lead content.

4) Complete follow-up flush sampling and retesting to help determine the location of the lead content. *(These sample results will help determine if the lead source is in the fixture or interior plumbing to determine if replacing the fixture is an effective remediation option.)*

If remediation of fixtures and verification of test results less than the MDH action level are not completed within 30 days, parents, guardians and staff must be notified.

The District is required to ensure the lead-in-water management plan is available on the district's website. In addition, annual notification of the lead-in-water management plan is included in the student handbook or another method used to communicate policy information. Lead-in-water testing records must be available upon request.

Test results and remediation documentation is required to be reported annually to the MDH by July 1. Lead results and remediation documentation is required to be maintained by the District for 15 years.

Lead-in-water testing is required every five years in Minnesota schools.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from Wrenshall School District 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 dated August 5, 2024, regarding lead-in-water sampling at Wrenshall K12 School and the CTE Building, 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.

Taylor Dickinson

Taylor Dickinson, CSP
Virginia & Brainerd Regional Manager

TD/mh 11082024

Enc.

Appendix A

Laboratory Testing Report

RMB Environmental Laboratories, Inc.
www.rmbel.com

Burnsville
501 Highway 13 East Suite 104
Burnsville, MN 55337
952-456-8470

Detroit Lakes
22796 County Highway 6
Detroit Lakes, MN 56501
218-846-1465

Virginia
110 1/2 S 15th Avenue W
Virginia, MN 55792
218-440-2043

October 28, 2024
Laboratory Report

IEA-Institute for Environmental Assessment
Taylor Dickinson
5525 Emerald Avenue
Mt Iron, MN 55768

RE: Wrenshall School District
Work Order: H016631

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2024 08:30. If you have any questions concerning this report, please feel free to reach out to customer service at 888-200-5770 or the contacts listed below:

Chad Hadler	Sr. Project Manager	Chad.Hadler@rmbel.com	(952) 456-8470
Justin Tweedale	Sr. Project Manager	Justin.Tweedale@rmbel.com	(218) 849-8747
Kathleen Mitchell	Quality Assurance Director	Kathleen.Mitchell@rmbel.info	(785) 493-1633
Robert Borash	President | CEO	Robert.Borash@rmbel.info	(218) 849-6420

Report approved by:

Chad Hadler
Project Manager
chad.hadler@rmbel.com

Detroit Lakes (DL) Certification / Accreditation Numbers: EPA Lab ID MN00918 • Minnesota Department of Health 027-005-336 • North Dakota Department of Environmental Quality R-187
Burnsville (BL) Certification / Accreditation Numbers: EPA Lab ID MN01091 • Minnesota Department of Health 027-053-475 • North Dakota Department of Environmental Quality R-231
Hibbing (HB) Certification / Accreditation Numbers: EPA Lab ID MN01082 • Minnesota Department of Health 027-137-480 • North Dakota Department of Environmental Quality R-228

RMB Environmental Laboratories, Inc.
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Burnsville
501 Highway 13 East Suite 104
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952-456-8470

Detroit Lakes
22796 County Highway 6
Detroit Lakes, MN 56501
218-846-1465

Virginia
110 1/2 S 15th Avenue W
Virginia, MN 55792
218-440-2043

Report Date: October 28,2024

IEA-Institute for Environmental Assessment
5525 Emerald Avenue
Mt Iron MN, 55768

Project: Wrenshall School District
Project Number: 202410910

Date/Time Received
10/18/2024 8:30:00AM

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Location	Matrix	Date/Time Sampled
H016631-01	101724WS-1	Near Girl's RR - Right	Water	10/17/2024 07:26
H016631-02	101724WS-2	Near Girl's RR - C	Water	10/17/2024 07:26
H016631-03	101724WS-3	Near Girl's RR - Left	Water	10/17/2024 07:26
H016631-04	101724WS-4	Room #1	Water	10/17/2024 07:26
H016631-08	101724WS-8	Shop - By Tools - Left	Water	10/17/2024 07:26
H016631-10	101724WS-10	Shop - By Tools - Right	Water	10/17/2024 08:02
H016631-11	101724WS-11	Room #125 - Left	Water	10/17/2024 08:10
H016631-12	101724WS-12	Room #125 - C	Water	10/17/2024 08:10
H016631-13	101724WS-13	Room #125 - Right	Water	10/17/2024 08:10
H016631-15	101724WS-15	Room #128 - Left	Water	10/17/2024 08:10
H016631-17	101724WS-17	Room #130 - Left	Water	10/17/2024 08:10
H016631-19	101724WS-19	Library - Storage	Water	10/17/2024 08:10
H016631-20	101724WS-20	Staff Lounge	Water	10/17/2024 08:10
H016631-21	101724WS-21	Principal Blanchard #102	Water	10/17/2024 08:10
H016631-22	101724WS-22	Near #136	Water	10/17/2024 08:10
H016631-24	101724WS-24	Room #111	Water	10/17/2024 08:10
H016631-25	101724WS-25	Room #112 - Left	Water	10/17/2024 08:10
H016631-26	101724WS-26	Room #112 - Right	Water	10/17/2024 08:10
H016631-27	101724WS-27	Room #113 - Left	Water	10/17/2024 08:10
H016631-28	101724WS-28	Room #113 - Right	Water	10/17/2024 08:10
H016631-29	101724WS-29	Room #116 - Left	Water	10/17/2024 08:10
H016631-30	101724WS-30	Room #116 - Right	Water	10/17/2024 08:10
H016631-31	101724WS-31	Room #117	Water	10/17/2024 08:10
H016631-32	101724WS-32	Room #117	Water	10/17/2024 08:10
H016631-33	101724WS-33	Fountains Near Main Office - Left	Water	10/17/2024 08:10
H016631-34	101724WS-34	Fountains Near Main Office - Center	Water	10/17/2024 08:10
H016631-36	101724WS-36	Room #122 Storage	Water	10/17/2024 08:10
H016631-37	101724WS-37	Room #123 Storage Left	Water	10/17/2024 08:10
H016631-39	101724WS-39	Room #220	Water	10/17/2024 08:10
H016631-40	101724WS-40	Near #221 Art	Water	10/17/2024 08:10
H016631-41	101724WS-41	Room #222	Water	10/17/2024 08:10
H016631-42	101724WS-42	Room #223	Water	10/17/2024 08:10
H016631-44	101724WS-44	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-45	101724WS-45	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-46	101724WS-46	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-47	101724WS-47	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-48	101724WS-48	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-49	101724WS-49	Room #226 Kitchen	Water	10/17/2024 08:10
H016631-50	101724WS-50	Near #201	Water	10/17/2024 08:10
H016631-51	101724WS-51	Room #206 L	Water	10/17/2024 08:10
H016631-52	101724WS-52	Room #206 R	Water	10/17/2024 08:10
H016631-53	101724WS-53	Room #207	Water	10/17/2024 08:10
H016631-54	101724WS-54	Room #208	Water	10/17/2024 08:10
H016631-55	101724WS-55	Room #209	Water	10/17/2024 08:10
H016631-56	101724WS-56	Room #210	Water	10/17/2024 08:10
H016631-57	101724WS-57	Room #211	Water	10/17/2024 08:10

RMB
Environmental Laboratories, Inc.
www.rmbel.com

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501 Highway 13 East Suite 104
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952-456-8470

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22796 County Highway 6
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218-846-1465

Virginia
110 1/2 S 15th Avenue W
Virginia, MN 55792
218-440-2043

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Location	Matrix	Date/Time Sampled
H016631-58	101724WS-58	Room #214 L	Water	10/17/2024 08:10
H016631-59	101724WS-59	Room #214 R	Water	10/17/2024 08:10
H016631-60	101724WS-60	Room #215 L	Water	10/17/2024 08:10
H016631-61	101724WS-61	Room #215 R	Water	10/17/2024 08:10
H016631-62	101724WS-62	Cafeteria Sink	Water	10/17/2024 08:10
H016631-63	101724WS-63	Kitchen - Basement - Left	Water	10/17/2024 08:10
H016631-64	101724WS-64	Kitchen - Basement - Center Left	Water	10/17/2024 08:10
H016631-65	101724WS-65	Kitchen - Basement - Center Right	Water	10/17/2024 08:10
H016631-66	101724WS-66	Kitchen - Basement - Right	Water	10/17/2024 08:10
H016631-67	101724WS-67	Dishwash Room	Water	10/17/2024 08:10

Additional information:

All samples will be retained for 30 days from date sampled, unless otherwise requested.
Record retention policy is 5 years unless otherwise agreed to in writing.
All calculations are performed using the raw data results.

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218-440-2043

Laboratory Results

October 28, 2024

Lab Number	Analyte	Sample ID	Location	Result	Units	Sample RL	DF	Analysis Method	Analyzed	Batch	Analyte Qualifiers	Facility
Metals												
H016631-01	Lead	101724WS-1	Near Girl's RR - Right	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 18:53	BH10589		DL
H016631-02	Lead	101724WS-2	Near Girl's RR - C	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 18:57	BH10589		DL
H016631-03	Lead	101724WS-3	Near Girl's RR - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:02	BH10589		DL
H016631-04	Lead	101724WS-4	Room #1	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:06	BH10589		DL
H016631-08	Lead	101724WS-8	Shop - By Tools - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:11	BH10589		DL
H016631-10	Lead	101724WS-10	Shop - By Tools - Right	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:15	BH10589		DL
H016631-11	Lead	101724WS-11	Room #125 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:20	BH10589		DL
H016631-12	Lead	101724WS-12	Room #125 - C	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:33	BH10589		DL
H016631-13	Lead	101724WS-13	Room #125 - Right	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 13:16	BH10587		DL
H016631-15	Lead	101724WS-15	Room #128 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:46	BH10589		DL
H016631-17	Lead	101724WS-17	Room #130 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:51	BH10589		DL
H016631-19	Lead	101724WS-19	Library - Storage	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 19:55	BH10589		DL
H016631-20	Lead	101724WS-20	Staff Lounge	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:00	BH10589		DL
H016631-21	Lead	101724WS-21	Principal Blanchard #102	**2.03**	ug/L	2.00	1	EPA 200.8	10/25/24 20:04	BH10589		DL
H016631-22	Lead	101724WS-22	Near #136	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:09	BH10589		DL
H016631-24	Lead	101724WS-24	Room #111	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:13	BH10589		DL
H016631-25	Lead	101724WS-25	Room #112 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:27	BH10589		DL
H016631-26	Lead	101724WS-26	Room #112 - Right	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:31	BH10589		DL
H016631-27	Lead	101724WS-27	Room #113 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:36	BH10589		DL
H016631-28	Lead	101724WS-28	Room #113 - Right	**2.18**	ug/L	2.00	1	EPA 200.8	10/25/24 20:45	BH10589		DL
H016631-29	Lead	101724WS-29	Room #116 - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:49	BH10589		DL
H016631-30	Lead	101724WS-30	Room #116 - Right	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:54	BH10589		DL
H016631-31	Lead	101724WS-31	Room #117	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 20:58	BH10589		DL

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Lab Number	Analyte	Sample ID	Location	Result	Units	Sample RL	DF	Analysis Method	Analyzed	Batch	Analyte Qualifiers	Facility
Metals												
H016631-32	Lead	101724WS-32	Room #117	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 21:03	BH10589		DL
H016631-33	Lead	101724WS-33	Fountains Near Main Office - Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 21:07	BH10589		DL
H016631-34	Lead	101724WS-34	Fountains Near Main Office - Center	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 21:20	BH10589		DL
H016631-36	Lead	101724WS-36	Room #122 Storage	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 21:25	BH10589		DL
H016631-37	Lead	101724WS-37	Room #123 Storage Left	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 21:29	BH10589		DL
H016631-39	Lead	101724WS-39	Room #220	**2.25**	ug/L	2.00	1	EPA 200.8	10/25/24 13:49	BH10650		DL
H016631-40	Lead	101724WS-40	Near #221 Art	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:02	BH10650		DL
H016631-41	Lead	101724WS-41	Room #222	**2.64**	ug/L	2.00	1	EPA 200.8	10/25/24 14:06	BH10650		DL
H016631-42	Lead	101724WS-42	Room #223	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:11	BH10650		DL
H016631-44	Lead	101724WS-44	Room #226 Kitchen	**2.28**	ug/L	2.00	1	EPA 200.8	10/25/24 14:24	BH10650		DL
H016631-45	Lead	101724WS-45	Room #226 Kitchen	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:29	BH10650		DL
H016631-46	Lead	101724WS-46	Room #226 Kitchen	**6.28**	ug/L	2.00	1	EPA 200.8	10/25/24 14:33	BH10650		DL
H016631-47	Lead	101724WS-47	Room #226 Kitchen	**17.8**	ug/L	2.00	1	EPA 200.8	10/25/24 14:38	BH10650		DL
H016631-48	Lead	101724WS-48	Room #226 Kitchen	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:42	BH10650		DL
H016631-49	Lead	101724WS-49	Room #226 Kitchen	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:46	BH10650		DL
H016631-50	Lead	101724WS-50	Near #201	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 14:51	BH10650		DL
H016631-51	Lead	101724WS-51	Room #206 L	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:00	BH10650		DL
H016631-52	Lead	101724WS-52	Room #206 R	**2.33**	ug/L	2.00	1	EPA 200.8	10/25/24 15:04	BH10650		DL
H016631-53	Lead	101724WS-53	Room #207	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:18	BH10650		DL
H016631-54	Lead	101724WS-54	Room #208	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:22	BH10650		DL
H016631-55	Lead	101724WS-55	Room #209	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:26	BH10650		DL
H016631-56	Lead	101724WS-56	Room #210	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:31	BH10650		DL
H016631-57	Lead	101724WS-57	Room #211	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:35	BH10650		DL
H016631-58	Lead	101724WS-58	Room #214 L	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:40	BH10650		DL
H016631-59	Lead	101724WS-59	Room #214 R	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:44	BH10650		DL
H016631-60	Lead	101724WS-60	Room #215 L	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 15:49	BH10650		DL

RMB Environmental Laboratories, Inc.
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Lab Number	Analyte	Sample ID	Location	Result	Units	Sample RL	DF	Analysis Method	Analyzed	Batch	Analyte Qualifiers	Facility
Metals												
H016631-61	Lead	101724WS-61	Room #215 R	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 16:11	BH10650		DL
H016631-62	Lead	101724WS-62	Cafeteria Sink	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 16:15	BH10650		DL
H016631-63	Lead	101724WS-63	Kitchen - Basement - Left	**4.28**	ug/L	2.00	1	EPA 200.8	10/25/24 16:20	BH10650		DL
H016631-64	Lead	101724WS-64	Kitchen - Basement - Center Left	**5.17**	ug/L	2.00	1	EPA 200.8	10/25/24 16:24	BH10650		DL
H016631-65	Lead	101724WS-65	Kitchen - Basement - Center Right	**21.2**	ug/L	2.00	1	EPA 200.8	10/25/24 16:29	BH10650		DL
H016631-66	Lead	101724WS-66	Kitchen - Basement - Right	**2.41**	ug/L	2.00	1	EPA 200.8	10/25/24 16:33	BH10650		DL
H016631-67	Lead	101724WS-67	Dishwash Room	**< 2.00**	ug/L	2.00	1	EPA 200.8	10/25/24 16:38	BH10650		DL

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218-440-2043

Metals - Quality Control

Analyte	Result	Units	Qualifiers	Sample RL	DF	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BH10587 - EPA 200.8											
Blank (BH10587-BLK1)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	< 2.00	ug/L		2.00	1						
LCS (BH10587-BS1)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	30.1	ug/L		2.00	1	30.0		100	85-115		
Batch BH10589 - EPA 200.8											
Blank (BH10589-BLK1)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	< 2.00	ug/L		2.00	1						
Blank (BH10589-BLK3)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	< 2.00	ug/L		2.00	1						
LCS (BH10589-BS1)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	50.6	ug/L		2.00	1	50.0		101	85-115		
LCS (BH10589-BS3)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Lead	50.9	ug/L		2.00	1	50.0		102	85-115		
Matrix Spike (BH10589-MS5)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Source: H016631-12											
Lead	48.3	ug/L		2.00	1	50.0	0.95	95	70-130		
Matrix Spike (BH10589-MS6)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Source: H016631-27											
Lead	48.6	ug/L		2.00	1	50.0	0.90	95	70-130		
Matrix Spike Dup (BH10589-MSD5)											
Prepared: 10/24/2024 Analyzed: 10/25/2024											
Source: H016631-12											
Lead	48.2	ug/L		2.00	1	50.0	0.95	95	70-130	0.2	20

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Metals - Quality Control

Analyte	Result	Units	Qualifiers	Sample RL	DF	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BH10650 - EPA 200.8											
Blank (BH10650-BLK1)											
Prepared & Analyzed: 10/25/2024											
Lead	< 2.00	ug/L		2.00	1						
Blank (BH10650-BLK2)											
Prepared & Analyzed: 10/25/2024											
Lead	< 2.00	ug/L		2.00	1						
LCS (BH10650-BS1)											
Prepared & Analyzed: 10/25/2024											
Lead	49.5	ug/L		2.00	1	50.0		99	85-115		
LCS (BH10650-BS2)											
Prepared & Analyzed: 10/25/2024											
Lead	50.3	ug/L		2.00	1	50.0		101	85-115		
Matrix Spike (BH10650-MS1)											
Prepared & Analyzed: 10/25/2024											
Source: H016631-39											
Lead	55.8	ug/L		2.00	1	50.0	2.25	107	70-130		
Matrix Spike (BH10650-MS2)											
Prepared & Analyzed: 10/25/2024											
Source: H016631-50											
Lead	56.5	ug/L		2.00	1	50.0	0.21	113	70-130		
Matrix Spike (BH10650-MS3)											
Prepared & Analyzed: 10/25/2024											
Source: H016631-60											
Lead	54.7	ug/L		2.00	1	50.0	1.38	107	70-130		
Matrix Spike Dup (BH10650-MSD1)											
Prepared & Analyzed: 10/25/2024											
Source: H016631-39											
Lead	60.7	ug/L		2.00	1	50.0	2.25	117	70-130	8	20
Matrix Spike Dup (BH10650-MSD3)											
Prepared & Analyzed: 10/25/2024											
Source: H016631-60											
Lead	60.6	ug/L		2.00	1	50.0	1.38	118	70-130	10	20

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Qualifiers and Definitions

Item	Definition
RL	Reporting Limit (Corrected for dilution factor when applicable due to sample preparation variation.)
MDL	Method Detection Limit (Corrected for sample preparation variation.)
DF	Dilution Factor
DL	Indicates test performed by RMB Environmental Laboratories - Detroit Lakes

Chain of Custody

H016631

Client Name	Wrenshall School District	Building Name	CTE Building	Analytical Lab	RMBEL
Contact Name	Taylor Dickinson	Project #	202410910	Project Name	LIW Testing
Phone #	218-410-9521	Email	Taylor.Dickinson@ieasafety.com	Written Sample Results To	Taylor Dickinson

Other Information

Sampled By	Tyler Peterson	Date	10/17/2024	Time	7:26	Analyzed By (Company)		Analyst	Date & Time
Shipped By	Tyler Peterson	Date	10/17/2024	Time		Turnaround Time	Standard	Notes	
Received By	KAS	Date	10/18/24	Time	0830	Sample Condition	Good	Temperature	15.5 HBIR3

Lab Number	Sample Number	Sample Location	Fixture Type (DF - Drinking Fountain; KS - Fixture; SP - Sprayer)	Sample Type: Water	Soil	Other	Date Sampled	Time Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
01	101724WS1	Near Girl's RR - Right	DF	x			10/17/24	7:26	250 ml Unpreserved	Lead	
02	101724WS2	Near Girl's RR-C	BF	x					250 ml Unpreserved	Lead	
03	101724WS3	Near Girl's RR-Left	DF	x					250 ml Unpreserved	Lead	
04	101724WS4	Room #1	CF	x					250 ml Unpreserved	Lead	
05	101724WS5	Shop-neareyewash-Left	CF	x					250 ml Unpreserved	Lead	Disconnected
06	101724WS6	-Right	CF	x					250 ml Unpreserved	Lead	
07	101724WS7	-Center		x					250 ml Unpreserved	Lead	
08	101724WS8	Shop-By tools - Left		x					250 ml Unpreserved	Lead	
09	101724WS9	-Center		x					250 ml Unpreserved	Lead	Disconnected
10	101724WS10	-Right		x			10/17/24	8:02	250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	Nitric Preservation Date 10/18/24 Time: 1055 Staff: KAS HB Lab
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
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				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	

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CHAIN OF CUSTODY RECORD

Client: IEA - Virginia

RMB Work Order	Project Number/P.O. 202410910	IEA Project Manager: Mandie Harten	Reports Issued To: taylor.dickinson@ieainstitute.com
	Wrenshall School District	Building: Wrenshall School	Samples Collected By: Tyler Peterson

Lab #	Sample Description and Details		Fixture	Sampled						
	IEA Sample Number	Sample Location	Type KS, DF, SP	Date	Time	Method	Matrix	# of Bottles	Comments	Analysis Requested
	101724WS 1					Grab	Wtr-Drink	1		Lead
	101724WS 2					Grab	Wtr-Drink	1		Lead
	101724WS 3					Grab	Wtr-Drink	1		Lead
	101724WS 4					Grab	Wtr-Drink	1		Lead
	101724WS 5					Grab	Wtr-Drink	1		Lead
	101724WS 6					Grab	Wtr-Drink	1		Lead
	101724WS 7					Grab	Wtr-Drink	1		Lead
	101724WS 8					Grab	Wtr-Drink	1		Lead
	101724WS 9					Grab	Wtr-Drink	1		Lead
	101724WS 10					Grab	Wtr-Drink	1		Lead
11	101724WS 11	Room #125 - Left	SS	10/17/2024	8:10	Grab	Wtr-Drink	1		Lead
12	101724WS 12	- C	SS			Grab	Wtr-Drink	1		Lead
13	101724WS 13	- Right	SS			Grab	Wtr-Drink	1		Lead
14	101724WS 14	Fountain near Room #128	DF			Grab	Wtr-Drink	1	Disconnected	Lead
15	101724WS 15	Room #128 - Left	FS			Grab	Wtr-Drink	1		Lead
16	101724WS 16	- Right	DF			Grab	Wtr-Drink	1	Disconnected	Lead
17	101724WS 17	Room #130 - Left	FS			Grab	Wtr-Drink	1		Lead
18	101724WS 18	- Right	DF			Grab	Wtr-Drink	1	Disconnected	Lead
19	101724WS 19	Library - Storage	KS			Grab	Wtr-Drink	1		Lead
20	101724WS 20	Staff Lounge	KS			Grab	Wtr-Drink	1		Lead

Samples Relinquished by:	Date: Time:	Preservation at Lab: (circle one) BL DL (HB) By: EAS
Received by Lab:	Date: 10-18-24 Time: 0830	Date: 10/18/24 Time: 1055 Nitric Lot: D400414

☐ Samples **MEET** proper sample storage and transportation guidelines. ☐ Received on Ice ☐ Received Room Temp ☐ Samples Received sample day as collection

☐ Samples **DO NOT MEET** proper sample storage and transportation guidelines. **Comments:** Received Temp: 15.5 °C Therm ID: NBIR3

CMH 10/21/24

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CHAIN OF CUSTODY RECORD

Client: IEA - Virginia

RMB Work Order	Project Number/P.O. 202410910	IEA Project Manager: Mandie Harten	Reports Issued To: taylor.dickinson@ieainstitute.com
	Wrenshall School District	Building: Wrenshall School	Samples Collected By: Tyler Peterson

Lab #	Sample Description and Details: IEA Sample Number	Sample Location	Fixture Type KS, DF, SP	Sampled: Date	Time	Method	Matrix	# of Bottles	Comments	Analysis Requested
21	101724WS 21	Principal Blanchard #102	KS			Grab	Wtr-Drink	1		Lead
22	101724WS 22	~~RR in Room #[illegible] L~~	DF			Grab	Wtr-Drink	1	Near #136	Lead
23	101724WS 23	~~R~~	DF			Grab	Wtr-Drink	1	Room #165A - Ice	Lead
24	101724WS 24	Room #111	CF			Grab	Wtr-Drink	1		Lead
25	101724WS 25	Room #112 - left	CF			Grab	Wtr-Drink	1		Lead
26	101724WS 26	- Right	DF			Grab	Wtr-Drink	1		Lead
27	101724WS 27	Room #113 - left	CF			Grab	Wtr-Drink	1		Lead
28	101724WS 28	- Right	CF			Grab	Wtr-Drink	1		Lead
29	101724WS 29	Room #116 - left	CF			Grab	Wtr-Drink	1		Lead
30	101724WS 30	- Right	DF			Grab	Wtr-Drink	1		Lead
31	101724WS 31	Room #117	CF			Grab	Wtr-Drink	1		Lead
32	101724WS 32		DF			Grab	Wtr-Drink	1		Lead
33	101724WS 33	Fountains near main office - Left	DF			Grab	Wtr-Drink	1		Lead
34	101724WS 34	- center	BF			Grab	Wtr-Drink	1		Lead
35	101724WS 35	- Right	DF			Grab	Wtr-Drink	1	Disconnected	Lead
36	101724WS 36	Room #122 storage	KS			Grab	Wtr-Drink	1		Lead
37	101724WS 37	Room #123 left	CF			Grab	Wtr-Drink	1		Lead
38	101724WS 38	Right	DF			Grab	Wtr-Drink	1	Disconnected	Lead
39	101724WS 39	Room #220	CF			Grab	Wtr-Drink	1		Lead
40	101724WS 40	Near #221 Art	DF			Grab	Wtr-Drink	1		Lead

Disconnected

Samples Relinquished by:	Date:	Time:	Preservation at Lab: (circle one) BL DL HB By:
Received by Lab:	Date:	Time:	Date: Time: Nitric Lot:

☐ Samples **MEET** proper sample storage and transportation quidelines. ☐ Received on Ice ☐ Received Room Temp ☐ Samples Received sample day as collection

☐ Samples **DO NOT MEET** proper sample storage and transportation quidelines. **Comments:** **Received Temp:** °C **Therm ID:**

CMH 10/21/24

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CHAIN OF CUSTODY RECORD

Client: IEA - Virginia

RMB Work Order	Project Number/P.O. 202410910	IEA Project Manager: Mandie Harten	Reports Issued To: taylor.dickinson@ieainstitute.com
	Wrenshall School District	Building: Wrenshall School	Samples Collected By: Tyler Peterson

Lab #	Sample Description and Details: IEA Sample Number	Sample Location	Fixture Type KS, DF, SP	Sampled: Date	Sampled: Time	Method	Matrix	# of Bottles	Comments	Analysis Requested
41	101724WS 41	Room #222	CF			Grab	Wtr-Drink	1		Lead
42	101724WS 42	Room #223	CF			Grab	Wtr-Drink	1		Lead
43	101724WS 43	Room #224	CF			Grab	Wtr-Drink	1	Disconnected	Lead
44	101724WS 44	Room #226 Kitchen	KS			Grab	Wtr-Drink	1		Lead
45	101724WS 45		KS			Grab	Wtr-Drink	1		Lead
46	101724WS 46		KS			Grab	Wtr-Drink	1		Lead
47	101724WS 47		KS			Grab	Wtr-Drink	1		Lead
48	101724WS 48		KS			Grab	Wtr-Drink	1		Lead
49	101724WS 49	See Map	KS			Grab	Wtr-Drink	1		Lead
50	101724WS 50	Near #201	DF			Grab	Wtr-Drink	1		Lead
51	101724WS 51	Room #206 L	CF			Grab	Wtr-Drink	1		Lead
52	101724WS 52	R	DF			Grab	Wtr-Drink	1		Lead
53	101724WS 53	Room #207	LF			Grab	Wtr-Drink	1		Lead
54	101724WS 54	Room #208	CF			Grab	Wtr-Drink	1		Lead
55	101724WS 55	Room #209	CF			Grab	Wtr-Drink	1		Lead
56	101724WS 56	Room #210	CF			Grab	Wtr-Drink	1		Lead
57	101724WS 57	Room #211	CF			Grab	Wtr-Drink	1		Lead
58	101724WS 58	Room #214 L	CF			Grab	Wtr-Drink	1		Lead
59	101724WS 59	R	DF			Grab	Wtr-Drink	1		Lead
60	101724WS 60	Room #215 L	CF			Grab	Wtr-Drink	1		Lead

Samples Relinquished by:	Date: Time:	Preservation at Lab: (circle one) BL DL HB By:
Received by Lab:	Date: Time:	Date: Time: Nitric Lot:

☐ Samples **MEET** proper sample storage and transportation guidelines. ☐ Received on Ice ☐ Received Room Temp ☐ Samples Received sample day as collection

☐ Samples **DO NOT MEET** proper sample storage and transportation guidelines. **Comments:** **Received Temp:** °C **Therm ID:**

CMH 10/21/24

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CHAIN OF CUSTODY RECORD

Client: IEA - Virginia

RMB Work Order	Project Number/P.O. 202410910	IEA Project Manager: Mandie Harten	Reports Issued To: taylor.dickinson@ieainstitute.com
	Wrenshall School District	Building: Wrenshall School	Samples Collected By: Tyler Peterson

	Sample Description and Details		Fixture	Sampled						
	IEA Sample Number	Sample Location	Type KS, DF, SP	Date	Time	Method	Matrix	# of Bottles	Comments	Analysis Requested
61	101724WS 61	L R	DF	|	|	Grab	Wtr-Drink	1		Lead
62	101724WS 62	Cafeteria Sink	KF	|	|	Grab	Wtr-Drink	1		Lead
63	101724WS 63	Kitchen - Basement - Left	KF	|	|	Grab	Wtr-Drink	1		Lead
64	101724WS 64	| Center Left	KF	|	|	Grab	Wtr-Drink	1		Lead
65	101724WS 65	| Center Right	OF	|	|	Grab	Wtr-Drink	1		Lead
66	101724WS 66	← Right	KF	|	|	Grab	Wtr-Drink	1		Lead
67	101724WS 67	Dishwash Room	SP	~~10/17/2024~~	~~11:40~~	Grab	Wtr-Drink	1		Lead
68	101724WS 68	Alcove Gym	DF	10/17/2024	11:50	Grab	Wtr-Drink	1	Disconnected	Lead
	101724WS 69					Grab	Wtr-Drink	1		Lead
	101724WS 70					Grab	Wtr-Drink	1		Lead
	101724WS 71					Grab	Wtr-Drink	1		Lead
	101724WS 72					Grab	Wtr-Drink	1		Lead
	101724WS 73					Grab	Wtr-Drink	1		Lead
	101724WS 74					Grab	Wtr-Drink	1		Lead
	101724WS 75					Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead
						Grab	Wtr-Drink	1		Lead

Samples Relinquished by:	Date: Time:	Preservation at Lab: (circle one) BL DL HB By:
Received by Lab:	Date: Time:	Date: Time: Nitric Lot:

☐ Samples **MEET** proper sample storage and transportation guidelines. ☐ Received on Ice ☐ Received Room Temp ☐ Samples Received sample day as collection

☐ Samples **DO NOT MEET** proper sample storage and transportation guidelines. **Comments:** **Received Temp:** °C **Therm ID:**

CMH 10/21/24

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November 07, 2024
Laboratory Report

IEA-Institute for Environmental Assessment
Taylor Dickinson
5525 Emerald Avenue
Mt Iron, MN 55768

RE: Wrenshall School District
Work Order: H016788

Enclosed are the results of analyses for samples received by the laboratory on 11/01/2024 13:22. If you have any questions concerning this report, please feel free to reach out to customer service at 888-200-5770 or the contacts listed below:

Chad Hadler	Sr. Project Manager	Chad.Hadler@rmbel.com	(952) 456-8470
Justin Tweedale	Sr. Project Manager	Justin.Tweedale@rmbel.com	(218) 849-8747
Kathleen Mitchell	Quality Assurance Director	Kathleen.Mitchell@rmbel.info	(785) 493-1633
Robert Borash	President | CEO	Robert.Borash@rmbel.info	(218) 849-6420

Report approved by:

Chad Hadler
Project Manager
chad.hadler@rmbel.com

Detroit Lakes (DL) Certification / Accreditation Numbers: EPA Lab ID MN00918 • Minnesota Department of Health 027-005-336 • North Dakota Department of Environmental Quality R-187
Burnsville (BL) Certification / Accreditation Numbers: EPA Lab ID MN01091 • Minnesota Department of Health 027-053-475 • North Dakota Department of Environmental Quality R-231
Hibbing (HB) Certification / Accreditation Numbers: EPA Lab ID MN01082 • Minnesota Department of Health 027-137-480 • North Dakota Department of Environmental Quality R-228

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218-440-2043

Report Date: November 07,2024

IEA-Institute for Environmental Assessment
5525 Emerald Avenue
Mt Iron MN, 55768

Project: Wrenshall School District
Project Number: 202410910

Date/Time Received
11/1/2024 1:22:00PM

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Location	Matrix	Date/Time Sampled
H016788-01	110124WS-1	Nurses Office	Water	11/01/2024 07:10
H016788-02	110124WS-2	Lactation Room	Water	11/01/2024 07:10

Additional information:

All samples will be retained for 30 days from date sampled, unless otherwise requested.
Record retention policy is 5 years unless otherwise agreed to in writing.
All calculations are performed using the raw data results.

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Laboratory Results

November 07, 2024

Lab Number	Analyte	Sample ID	Location	Result	Units	Sample RL	DF	Analysis Method	Analyzed	Batch	Analyte Qualifiers	Facility
Metals												
H016788-01	Lead	110124WS-1	Nurses Office	**< 2.0**	ug/L	2.0	1	EPA 200.9	11/05/24 15:53	BH10987		DL
H016788-02	Lead	110124WS-2	Lactation Room	**2.2**	ug/L	2.0	1	EPA 200.9	11/05/24 15:55	BH10987		DL

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Metals - Quality Control

Analyte	Result	Units	Qualifiers	Sample RL	DF	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BH10987 - EPA 200.9											
Blank (BH10987-BLK1)											
Prepared & Analyzed: 11/05/2024											
Lead	< 2.0	ug/L		2.0	1						
LCS (BH10987-BS1)											
Prepared & Analyzed: 11/05/2024											
Lead	33.2	ug/L		2.0	1	30.0		111	85-115		

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Qualifiers and Definitions

Item	Definition
RL	Reporting Limit (Corrected for dilution factor when applicable due to sample preparation variation.)
MDL	Method Detection Limit (Corrected for sample preparation variation.)
DF	Dilution Factor
DL	Indicates test performed by RMB Environmental Laboratories - Detroit Lakes

Chain of Custody

H016788

IEA

Client Name: Wrenshall School District	Building Name: Wrenshall School	Analytical Lab	RMBEL
Contact Name: Taylor Dickinson	Project #: 202410910	Project Name	LIW Testing
Phone #: 218-410-9521	Email: Taylor.Dickinson@ieasafety.com	Written Sample Results To	Taylor Dickinson

Other Information:

Sampled By	Tyler Peterson	Date	11/01/24	Time	7:10 AM	Analyzed By (Company)		Analyst	Date & Time
Shipped By	Tyler Peterson	Date	11/01/24	Time	7:10 AM	Turnaround Time	Standard	Notes	
Received By	[signature]	Date	11/01/24	Time	1322	Sample Condition	Good	Temperature	20.3 HB123

Lab Number	Sample Number	Sample Location	Fixture Type (DF - Drinking Fountain; KS - Fixture; SP - Sprayer)	Water	Soil	Other	Date Sampled	Time Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
01	110124WS1	Nurse's Office	NO	x			11/01/2024	7:10 AM	250 ml Unpreserved	Lead	
02	110124WS2	Lactation Room	RF	x			" ↓ "	" ↓ "	250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
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									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
									250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	
				x					250 ml Unpreserved	Lead	

Sample Receipt Conditions

RMB Environmental Labs: BL DL (HB) (circle lab) RMB Environmental Laboratories, Inc.

Received on 11 / 1 / 24 at 1322 By: JTB

Temp 20.3 oC Therm ID: HB123

☒ Does meet proper sample storage/transport guidelines

☐ Received on Ice

☒ Received same day as collection

☒ Received in good condition

☐ Recorded sample rejection details on the chain of custody

Chlorine: ☐ No ☐ Yes ☒ N/A

☒ RMB Courier Fees $ ☐ Hand Delivered ☐ Shipping/Mailing Service

Nitric Preservation
Date 11 / 1 / 24 Time: 1322
Staff: JTB HB Lab

cmh 11/04/24