

Limited Lead in Drinking Water Assessment

**Longview Public Schools
Longview, Washington
Mint Valley Elementary School**



Assessment Date(s): February 21 and May 3 2022

Report Date: June 1, 2022

Prepared for: Jason Reetz, Facilities Manager
Longview Public Schools

Facility Owner/Operator: Longview Public Schools



Prepared By:
Sterling Technologies, LLC
317 NE 144th Street
Vancouver, WA 98685



Limited Lead in Drinking Water Assessment

Introduction

Sterling Technologies (Sterling) has recently completed a limited lead in drinking water screening of the Mint Valley Elementary School, Longview School District, located at 2745 38th Avenue, Longview, Washington. The purpose of the investigation was to identify the levels of lead in the various sources of drinking water throughout the school. Sample locations included drinking water fountains, classroom sink water faucets, restroom sink water faucets, and kitchen sink water faucets.

Background

The school district may be considered a water supply system from a water distribution perspective and may need to comply with the federal guidelines for water monitoring as specified in the Lead & Copper Rule (Federal Register: June 30, 1994, Part 5. 40 CFR Parts 141 and 142; Drinking Water; Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper) and be compelled to monitor the drinking water within the district on an ongoing basis after an effective treatment approach is implemented (56FR 26460 – Lead Copper Rule). Within 30 days of learning the lead level results, all water systems (schools in this case) must provide individual lead tap results to the people who receive water from the sites that were sampled, regardless of whether the results exceed the Lead Action Level, as required by 40 CFR 141.85(d).

Results Summary

Water samples were collected from 78 drinking water sources at the school.

77 samples were found to NOT contain elevated lead levels (below 15 ppb).

1 sample was found to contain elevated lead levels (above 15 ppb)

Sampling

The samples were collected by EPA accredited inspectors provided by Sterling. Samples included representative amounts of water. The lead in drinking water samples were analyzed by Apex Laboratories by EPA Method 200.8. The sampling guidelines followed were based on the federal school standard with emphasis on the Lead Copper Rule for sampling sites chosen.

Report continued on the next page...



Assessment Results

Analytical Results: Lead in Drinking Water Samples Collected February 21, 2022

Item	Sample ID.	Location	Result (µ/L)
1	MV-201-DW	Classroom #201, Drinking Fountain	0.910
2	MV-202-F1	Classroom #201, Sink Faucet #1	0.508
3	MV-202-F2	Classroom #202, Sink Faucet #2	ND
4	MV-203-F	Classroom #203, Sink Faucet	0.569
5	MV-203-DW	Classroom #203, Drinking Fountain	0.362
6	MV-204-F	Classroom #204, Sink Faucet	ND
7	MV-204-DW	Classroom #204, Drinking Fountain	0.630
8	MV-205-F	Classroom #205, Sink Faucet	0.210
9	MV-205-WF	Classroom #205, Drinking Fountain	0.446
10	MV-206-F	Classroom #206, Sink Faucet	ND
11	MV-206-WF	Classroom #206, Drinking Fountain	0.202
12	MV-2-B-F	Pod #2, Boys Restroom, Sink Faucet	0.423
13	MV-2-G-F	Pod #2, Girls Restroom, Sink Faucet	ND
14	MV-301-F	Classroom #301, Sink Faucet	0.242
15	MV-301-DW	Classroom #106, Drinking Fountain	0.863
16	MV-302-F1	Classroom #302, Sink Faucet #1	ND
17	MV-302-F2	Classroom #302, Sink Faucet #2	0.513
18	MV-303-F	Classroom #303, Sink Faucet	ND
19	MV-303-WF	Classroom #303, Drinking Fountain	ND
20	MV-304-F	Classroom #304, Sink Faucet	0.989
21	MV-304-DW	Classroom #403, Drinking Fountain	0.633
22	MV-305-F	Classroom #305, Sink Faucet	ND
23	MV-305-DW	Classroom #305, Drinking Fountain	ND
24	MV-306-F	Classroom #306, Sink Faucet	0.318
25	MV-306-DW	Classroom #306, Drinking Fountain	1.08
26	MV-3-B-F	Pod #3, Boys Restroom, Sink Faucet	0.492
27	MV-3-G-F-1	Pod #3, Girls Restroom, Sink Faucet #1	0.344
28	MV-3-G-F-2	Pod #3, Girls Restroom, Sink Faucet #2	0.458
29	MV-3-WF-1	Pod #3, Drinking Fountain #1	14.3
30	MV-3-WF-2	Pod #3, Drinking Fountain #2	1.86
31	MV-701-RR-F	Portable # 701 – Restroom – Sink Faucet	ND

ND = Non-Detect

Analytical Results *continued on the next page...*



Analytical Results: Lead in Drinking Water (continued)
Samples Collected February 21, 2022

Item	Sample ID.	Location	Result (µ/L)
32	MV-702-RR-F	Portable # 702 – Restroom – Sink Faucet	ND
33	MV-N-F	Health Area, Sink Faucet	ND
34	MV-N-RR-F	Health Area, Restroom, Sink Faucet	0.227
35	MV-L-F	Library, Sink Faucet	0.265
36	MV-SL-F	Staff Lounge – Sink Faucet	ND
37	MV-O-B-F	Main Office – Boys Restroom, Sink Faucet	0.279
38	MV-O-G-F	Main Office – Girls Restroom, Sink Faucet	0.485
39	MV-S-M-F	Main Office – Men’s Staff Restroom, Sink Faucet	0.608
40	MV-S-W-F	Main Office – Women’s Staff Restroom, Sink Faucet	0.463
41	MV-O-WF-1	Main Office – Drinking Fountain #1	0.417
42	MV-O-WF-2	Main Office – Drinking Fountain #2	2.50
43	MV-G-WF-1	Gym, Drinking Fountain #1	1.82
44	MV-G-WF-2	Gym, Drinking Fountain #2	6.96
45	MV-G-B-F1	Gym, Boys Restroom, Sink Faucet #1	0.974
46	MV-G-B-F2	Gym, Boys Restroom, Sink Faucet #2	1.89
47	MV-G-B-F1	Gym, Girls Restroom, Sink Faucet #1	1.24
48	MV-G-B-F2	Gym, Girls Restroom, Sink Faucet #2	0.837
49	MV-K-RR-F	Kitchen, Restroom, Sink Faucet	0.622

ND = Non-Detect

Analytical Results *continued on the next page...*



Analytical Results: Lead in Drinking Water (continued)
Samples Collected May 3, 2022

Item	Sample ID.	Location	Result (µ/L)
1	MV-5-501-DW	Classroom #501, Drinking Fountain	0.325
2	MV-5-502-DW	Classroom #502, Drinking Fountain	0.221
3	MV-5-503-F	Classroom #503, Sink Faucet	ND
4	MV-5-503-DW	Classroom #503, Drinking Fountain	0.907
5	MV-504-F	Classroom #504, Sink Faucet	0.207
6	MV-504-WF	Classroom #504, Drinking Fountain	ND
7	MV-505-F	Classroom #505, Sink Faucet	ND
8	MV505-DF	Classroom #505, Drinking Fountain	ND
9	MV-5-506-F	Classroom #506, Sink Faucet	ND
10	MV-5-506-DW	Classroom #506, Drinking Fountain	ND
11	MV-5-501-F	Classroom #505, Sink Faucet	ND
12	MV-5-B-LF	Building #5, Boys Restroom, Left Sink Faucet	ND
13	MV-601-F	Classroom #601, Sink Faucet	0.636
14	MV-601-BRF	Classroom #601, Restroom, Sink Faucet	1.03
15	MV-601-BRRF	Classroom #601, Boys Restroom, Sink Faucet	0.461
16	MV-604-DF-E	Classroom #604, East Drinking Fountain	1.05
17	MV-604-F-E	Classroom #604, East Sink Faucet	1.21
18	MV-604-F-W	Classroom #604, West Sink Faucet	0.303
19	MV-604-WF-W	Classroom #604, West Drinking Fountain	0.436
20	MV-604-SRRF	Classroom #604 Staff Restroom Sink Faucet	0.231
21	MV-604-GRRF	Classroom #604 Girls Restroom Sink Faucet	0.528
22	MV-606-KRRF	Classroom #606 Kids Restroom Sink Faucet	3.24
23	MV-606-KRRF	Classroom #606 Staff Restroom Sink Faucet	ND
24	MV-608-FW	Classroom #604, West Sink Faucet	4.24
25	MV-608-FE	Classroom #604, East Sink Faucet	1.87
26	MV-608-SRRF	Classroom #608 Staff Restroom Sink Faucet	ND
27	MV-608-KRRF	Classroom #608 Kids Restroom Sink Faucet	1.47
28	MV-6-GEF	Building 6, Hall Girls Restroom, East Sink Faucet	0.201
29	MV-6-GWF	Building 6, Hall Girls Restroom, West Sink Faucet	0.356

ND = Non-Detect

Analytical Results *continued on the next page...*



Analytical Results: Lead in Drinking Water (continued)

Samples Collected February 21 and May 3, 2022

As highlighted () in the above tables on the previous pages, the lab results for 1 of the 78 drinking water samples collected was found to be at or above the 15 ppb action level for lead in drinking water. The remaining 77 drinking water samples were found to be below the 15 ppb action level.

Note: Drinking water sources with lead levels above an approximate background level of 2.0 ppb have also been highlighted ().

Conclusions and Recommendations

One location was noted to have an elevated lead in drinking water, the first drinking water fountain encountered upon entering the temporary classroom pod #3. No elevated lead in drinking water levels were noted in the other locations that were sampled at the school, and the results were below the lead in drinking water EPA standard under the Safe Drinking Water Act of 15 parts per billion. Four drinking water locations did have residual lead levels above a background level of 2.0 ppb.

It is Sterling's recommendation that the Longview School District consider the installation of a combination drinking fountain and motion sensor water filling system using an ANSI 53 certified filter by the National Science Foundation (NSF). The Elkay EZH20 is a popular fixture and is advertised online for about \$1,500 per unit. Note that fixtures with refrigeration jump in price to around \$4,000. These systems have proven effective for the removal of lead particulates with our other school district clients.

Given the age of the Mint Valley Elementary School plumbing systems (school built in 1969), and the elevated and/or lead levels above baseline noted in the drinking water sources in four of the building locations on campus, (main office building, gymnasium building, 600 series classroom building, pod #3 structure), Sterling recommends that the district consider replacement of all the water fountains at the campus with fixtures that include a suitable lead filtration system. As the existing drinking water fountains do not have an electrical source, a mechanical system would be preferable. With the mechanical fixtures, required filter changes are noted on a counter that is based on the volume of water passed through the filter.

The district might also consider instituting an administrative policy that only those drinking water sources that include a lead filtration system be used for drinking water; discourage use of unfiltered water sources (e.g., classroom sink water faucets).

Report continued on *next page...*



Limitations

This report is for the exclusive use of the client, applies only to the specific subject property detailed above, and shall not be relied upon by any other party without the prior written consent of the undersigned.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other hazardous materials/wastes were investigated. No other conditions, expressed or implied, should be understood.

Recordkeeping

Additional copies of this report are available from Sterling Technologies upon request. Unless otherwise requested, samples will be retained for a period of 30 days, after which they will be discarded. If you have any questions about these results or would like additional information, please feel free to call our office.

Sterling Technologies thanks you for this opportunity to be of service.

Sincerely,



Thomas Nadermann, M.S., Principal
AHERA Inspector #155212, Lead Risk Assessor #0493



Appendix A

Inspector's Certification



STATE OF WASHINGTON

Department of Commerce
Lead-Based Paint Abatement Program

Thomas Heinrich Nadermann

*Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based
paint activities as a
Risk Assessor*

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0493	02/08/2021	10/22/2023

STATE OF WASHINGTON

Department of Commerce
Lead-Based Paint Abatement Program

Edwin L Wilson

*Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based
paint activities as a
Risk Assessor*

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
8040	08/26/2021	07/22/2024



Appendix B

Field Data

Laboratory Results





ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, March 14, 2022

Thomas Nadermann
Sterling Technologies LLC
317 NE 144th St
Vancouver, WA 98685

RE: A2B0851 - Drinking Water - 2022 - Mint Valley Elementary

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2B0851, which was received by the laboratory on 2/23/2022 at 11:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	11.4 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Mint Valley Elementary**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MV-201-DW	A2B0851-01	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-202-F1	A2B0851-02	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-202-F2	A2B0851-03	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-203-F	A2B0851-04	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-203-DW	A2B0851-05	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-204-F	A2B0851-06	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-204-DW	A2B0851-07	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-205-F	A2B0851-08	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-205-WF	A2B0851-09	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-206-F	A2B0851-10	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-206-WF	A2B0851-11	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-2-B-F	A2B0851-12	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-2-G-F	A2B0851-13	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-301-F	A2B0851-14	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-301-DW	A2B0851-15	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-302-F1	A2B0851-16	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-302-F2	A2B0851-17	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-303-F	A2B0851-18	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-303-WF	A2B0851-19	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-304-F	A2B0851-20	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-304-DW	A2B0851-21	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-305-F	A2B0851-22	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-305-DW	A2B0851-23	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-306-F	A2B0851-24	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-306-DW	A2B0851-25	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-3-B-F	A2B0851-26	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-3-G-F-1	A2B0851-27	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-3-G-F-2	A2B0851-28	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-3-WF-1	A2B0851-29	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-3-WF-2	A2B0851-30	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-701-RR-F	A2B0851-31	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-702-RR-F	A2B0851-32	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-N-F	A2B0851-33	Drinking Water	02/21/22 00:00	02/23/22 11:22

Apex Laboratories

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Darrell Auvil, Client Services Manager

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503-718-2323
ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Mint Valley Elementary**Project Manager: **Thomas Nadermann****Report ID:****A2B0851 - 03 14 22 1004****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MV-N-RR-F	A2B0851-34	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-L-F	A2B0851-35	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-SL-F	A2B0851-36	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-O-B-F	A2B0851-37	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-O-G-F	A2B0851-38	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-S-M-F	A2B0851-39	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-S-W-F	A2B0851-40	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-O-WF-1	A2B0851-41	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-O-WF-2	A2B0851-42	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-WF-1	A2B0851-43	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-WF-2	A2B0851-44	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-B-F1	A2B0851-45	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-B-F2	A2B0851-46	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-G-F1	A2B0851-47	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-G-G-F2	A2B0851-48	Drinking Water	02/21/22 00:00	02/23/22 11:22
MV-K-RR-F	A2B0851-49	Drinking Water	02/21/22 00:00	02/23/22 11:22

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ORELAP ID: OR100062Sterling Technologies LLC317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Mint Valley Elementary
Project Manager: Thomas NadermannReport ID:

A2B0851 - 03 14 22 1004

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-201-DW (A2B0851-01) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.910	---	0.200	ug/L	1	03/02/22 20:00	EPA 200.8	
MV-202-F1 (A2B0851-02) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.508	---	0.200	ug/L	1	03/02/22 20:03	EPA 200.8	
MV-202-F2 (A2B0851-03) Matrix: Drinking Water								
Batch: 22B1008								
Lead	ND	---	0.200	ug/L	1	03/02/22 20:14	EPA 200.8	
MV-203-F (A2B0851-04) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.569	---	0.200	ug/L	1	03/02/22 20:18	EPA 200.8	
MV-203-DW (A2B0851-05) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.362	---	0.200	ug/L	1	03/02/22 20:21	EPA 200.8	
MV-204-F (A2B0851-06) Matrix: Drinking Water								
Batch: 22B1008								
Lead	ND	---	0.200	ug/L	1	03/02/22 20:24	EPA 200.8	
MV-204-DW (A2B0851-07) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.630	---	0.200	ug/L	1	03/02/22 20:28	EPA 200.8	
MV-205-F (A2B0851-08) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.210	---	0.200	ug/L	1	03/02/22 20:31	EPA 200.8	
MV-205-WF (A2B0851-09) Matrix: Drinking Water								
Batch: 22B1008								
Lead	0.446	---	0.200	ug/L	1	03/02/22 20:34	EPA 200.8	
MV-206-F (A2B0851-10) Matrix: Drinking Water								
Batch: 22B1008								

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317 NE 144th St
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Mint Valley Elementary
Project Manager: Thomas Nadermann

Report ID:

A2B0851 - 03 14 22 1004

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-206-F (A2B0851-10)		Matrix: Drinking Water						
Lead	ND	---	0.200	ug/L	1	03/02/22 20:38	EPA 200.8	
MV-206-WF (A2B0851-11)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	0.202	---	0.200	ug/L	1	03/02/22 20:41	EPA 200.8	
MV-2-B-F (A2B0851-12)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	0.423	---	0.200	ug/L	1	03/02/22 20:44	EPA 200.8	
MV-2-G-F (A2B0851-13)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	ND	---	0.200	ug/L	1	03/02/22 20:55	EPA 200.8	
MV-301-F (A2B0851-14)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	0.242	---	0.200	ug/L	1	03/02/22 20:59	EPA 200.8	
MV-301-DW (A2B0851-15)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	0.863	---	0.200	ug/L	1	03/02/22 21:02	EPA 200.8	
MV-302-F1 (A2B0851-16)		Matrix: Drinking Water						
Batch: 22B1008								
Lead	ND	---	0.200	ug/L	1	03/02/22 21:05	EPA 200.8	
MV-302-F2 (A2B0851-17)		Matrix: Drinking Water						
Batch: 22C0019								
Lead	0.513	---	0.200	ug/L	1	03/02/22 21:20	EPA 200.8	
MV-303-F (A2B0851-18)		Matrix: Drinking Water						
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 17:21	EPA 200.8	
MV-303-WF (A2B0851-19)		Matrix: Drinking Water						
Batch: 22C0019								

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503-718-2323
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2B0851 - 03 14 22 1004

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-303-WF (A2B0851-19)				Matrix: Drinking Water				
Lead	ND	---	0.200	ug/L	1	03/03/22 17:25	EPA 200.8	
MV-304-F (A2B0851-20)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	0.989	---	0.200	ug/L	1	03/03/22 17:28	EPA 200.8	
MV-304-DW (A2B0851-21)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	0.633	---	0.200	ug/L	1	03/03/22 17:31	EPA 200.8	
MV-305-F (A2B0851-22)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 17:35	EPA 200.8	
MV-305-DW (A2B0851-23)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 17:38	EPA 200.8	
MV-306-F (A2B0851-24)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	0.318	---	0.200	ug/L	1	03/03/22 17:41	EPA 200.8	
MV-306-DW (A2B0851-25)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	1.08	---	0.200	ug/L	1	03/03/22 17:45	EPA 200.8	
MV-3-B-F (A2B0851-26)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	0.492	---	0.200	ug/L	1	03/03/22 17:48	EPA 200.8	
MV-3-G-F-1 (A2B0851-27)				Matrix: Drinking Water				
Batch: 22C0019								
Lead	0.344	---	0.200	ug/L	1	03/03/22 17:51	EPA 200.8	
MV-3-G-F-2 (A2B0851-28)				Matrix: Drinking Water				
Batch: 22C0019								

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Sterling Technologies LLC317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Mint Valley Elementary
Project Manager: Thomas NadermannReport ID:

A2B0851 - 03 14 22 1004

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-3-G-F-2 (A2B0851-28) Matrix: Drinking Water								
Lead	0.458	---	0.200	ug/L	1	03/03/22 18:02	EPA 200.8	
MV-3-WF-1 (A2B0851-29) Matrix: Drinking Water								
Batch: 22C0019								
Lead	14.3	---	0.200	ug/L	1	03/03/22 18:06	EPA 200.8	
MV-3-WF-2 (A2B0851-30) Matrix: Drinking Water								
Batch: 22C0019								
Lead	1.86	---	0.200	ug/L	1	03/03/22 18:10	EPA 200.8	
MV-701-RR-F (A2B0851-31) Matrix: Drinking Water								
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 18:14	EPA 200.8	
MV-702-RR-F (A2B0851-32) Matrix: Drinking Water								
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 18:17	EPA 200.8	
MV-N-F (A2B0851-33) Matrix: Drinking Water								
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 18:20	EPA 200.8	
MV-N-RR-F (A2B0851-34) Matrix: Drinking Water								
Batch: 22C0019								
Lead	0.227	---	0.200	ug/L	1	03/03/22 18:24	EPA 200.8	
MV-L-F (A2B0851-35) Matrix: Drinking Water								
Batch: 22C0019								
Lead	0.265	---	0.200	ug/L	1	03/03/22 18:27	EPA 200.8	
MV-SL-F (A2B0851-36) Matrix: Drinking Water								
Batch: 22C0019								
Lead	ND	---	0.200	ug/L	1	03/03/22 18:31	EPA 200.8	
MV-O-B-F (A2B0851-37) Matrix: Drinking Water								
Batch: 22C0020								

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Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-O-B-F (A2B0851-37)				Matrix: Drinking Water				
Lead	0.279	---	0.200	ug/L	1	03/03/22 18:58	EPA 200.8	
MV-O-G-F (A2B0851-38)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	0.485	---	0.200	ug/L	1	03/03/22 19:10	EPA 200.8	
MV-S-M-F (A2B0851-39)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	0.608	---	0.200	ug/L	1	03/03/22 19:13	EPA 200.8	
MV-S-W-F (A2B0851-40)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	0.463	---	0.200	ug/L	1	03/03/22 19:17	EPA 200.8	
MV-O-WF-1 (A2B0851-41)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	0.417	---	0.200	ug/L	1	03/03/22 19:20	EPA 200.8	
MV-O-WF-2 (A2B0851-42)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	2.50	---	0.200	ug/L	1	03/03/22 19:23	EPA 200.8	
MV-G-WF-1 (A2B0851-43)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	1.82	---	0.200	ug/L	1	03/03/22 19:40	EPA 200.8	
MV-G-WF-2 (A2B0851-44)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	6.96	---	0.200	ug/L	1	03/03/22 19:44	EPA 200.8	
MV-G-B-F1 (A2B0851-45)				Matrix: Drinking Water				
Batch: 22C0020								
Lead	0.974	---	0.200	ug/L	1	03/03/22 19:48	EPA 200.8	
MV-G-B-F2 (A2B0851-46)				Matrix: Drinking Water				
Batch: 22C0020								

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Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

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Project Number: **Mint Valley Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-G-B-F2 (A2B0851-46)			Matrix: Drinking Water					
Lead	1.89	---	0.200	ug/L	1	03/03/22 19:51	EPA 200.8	
MV-G-G-F1 (A2B0851-47)			Matrix: Drinking Water					
Batch: 22C0020								
Lead	1.24	---	0.200	ug/L	1	03/03/22 19:55	EPA 200.8	
MV-G-G-F2 (A2B0851-48)			Matrix: Drinking Water					
Batch: 22C0020								
Lead	0.837	---	0.200	ug/L	1	03/03/22 19:59	EPA 200.8	
MV-K-RR-F (A2B0851-49)			Matrix: Drinking Water					
Batch: 22C0020								
Lead	0.622	---	0.200	ug/L	1	03/03/22 20:03	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B1008 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22B1008-BLK1)			Prepared: 02/28/22 15:29		Analyzed: 03/02/22 19:30							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22B1008-BS1)			Prepared: 02/28/22 15:29		Analyzed: 03/02/22 19:33							
EPA 200.8												
Lead	15.3	---	0.201	ug/L	1	15.0	---	102	85-115%	---	---	
Duplicate (22B1008-DUP1)			Prepared: 02/28/22 15:29		Analyzed: 03/02/22 19:41							
QC Source Sample: Non-SDG (A2B0787-41)												
Lead	2.04	---	0.200	ug/L	1	---	2.02	---	---	0.9	20%	
Matrix Spike (22B1008-MS1)			Prepared: 02/28/22 15:29		Analyzed: 03/02/22 19:45							
QC Source Sample: Non-SDG (A2B0787-41)												
EPA 200.8												
Lead	17.0	---	0.201	ug/L	1	15.0	2.02	100	70-130%	---	---	
Matrix Spike (22B1008-MS2)			Prepared: 02/28/22 15:29		Analyzed: 03/02/22 21:09							
QC Source Sample: MV-302-F1 (A2B0851-16)												
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	0.101	98	70-130%	---	---	
Batch 22C0019 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0019-BLK1)			Prepared: 03/01/22 10:19		Analyzed: 03/02/22 21:13							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0019-BS1)			Prepared: 03/01/22 10:19		Analyzed: 03/02/22 21:16							
EPA 200.8												
Lead	15.0	---	0.201	ug/L	1	15.0	---	100	85-115%	---	---	
Duplicate (22C0019-DUP1)			Prepared: 03/01/22 10:19		Analyzed: 03/02/22 21:24							
QC Source Sample: MV-302-F2 (A2B0851-17)												

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Sterling Technologies LLC
317 NE 144th St
Vancouver, WA 98685

Project: **Drinking Water - 2022**
Project Number: **Mint Valley Elementary**
Project Manager: **Thomas Nadermann**

Report ID:
A2B0851 - 03 14 22 1004

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0019 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22C0019-DUP1)			Prepared: 03/01/22 10:19		Analyzed: 03/02/22 21:24							
QC Source Sample: MV-302-F2 (A2B0851-17)												
EPA 200.8												
Lead	0.490	---	0.200	ug/L	1	---	0.513	---	---	5	20%	
Matrix Spike (22C0019-MS1)			Prepared: 03/01/22 10:19		Analyzed: 03/02/22 21:27							
QC Source Sample: MV-302-F2 (A2B0851-17)												
EPA 200.8												
Lead	15.0	---	0.201	ug/L	1	15.0	0.513	96	70-130%	---	---	
Matrix Spike (22C0019-MS2)			Prepared: 03/01/22 10:19		Analyzed: 03/03/22 18:34							
QC Source Sample: MV-SL-F (A2B0851-36)												
EPA 200.8												
Lead	16.0	---	0.201	ug/L	1	15.0	ND	107	70-130%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0020 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0020-BLK1)			Prepared: 03/01/22 10:22 Analyzed: 03/03/22 18:50									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0020-BS1)			Prepared: 03/01/22 10:22 Analyzed: 03/03/22 18:54									
EPA 200.8												
Lead	16.4	---	0.200	ug/L	1	15.0	---	109	85-115%	---	---	
Duplicate (22C0020-DUP1)			Prepared: 03/01/22 10:22 Analyzed: 03/03/22 19:02									
QC Source Sample: MV-O-B-F (A2B0851-37)												
EPA 200.8												
Lead	0.280	---	0.201	ug/L	1	---	0.279	---	---	0.3	20%	
Matrix Spike (22C0020-MS1)			Prepared: 03/01/22 10:22 Analyzed: 03/03/22 19:06									
QC Source Sample: MV-O-B-F (A2B0851-37)												
EPA 200.8												
Lead	16.7	---	0.201	ug/L	1	15.0	0.279	109	70-130%	---	---	
Matrix Spike (22C0020-MS2)			Prepared: 03/01/22 10:22 Analyzed: 03/03/22 20:45									
QC Source Sample: Non-SDG (A2B0860-08)												
EPA 200.8												
Lead	21.3	---	0.201	ug/L	1	15.0	4.83	110	70-130%	---	---	

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Project Number: **Mint Valley Elementary**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22B1008							
A2B0851-01	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-02	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-03	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-04	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-05	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-06	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-07	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-08	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-09	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-10	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-11	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-12	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-13	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-14	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-15	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
A2B0851-16	Drinking Water	EPA 200.8	02/21/22 00:00	02/28/22 15:29	10mL/10mL	10mL/10mL	1.00
Batch: 22C0019							
A2B0851-17	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-18	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-19	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-20	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-21	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-22	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-23	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-24	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-25	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-26	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-27	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-28	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-29	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-30	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-31	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-32	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-33	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-34	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
A2B0851-35	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00

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317 NE 144th St
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Mint Valley Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2B0851-36	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:19	10mL/10mL	10mL/10mL	1.00
Batch: 22C0020							
A2B0851-37	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-38	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-39	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-40	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-41	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-42	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-43	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-44	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-45	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-46	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-47	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-48	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0851-49	Drinking Water	EPA 200.8	02/21/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Mint Valley Elementary
Project Manager: Thomas Nadermann

Report ID:

A2B0851 - 03 14 22 1004

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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Report ID:

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Project Number: **Mint Valley Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Project: **Drinking Water - 2022**

Project Number: **Mint Valley Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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A2B0851 - 03 14 22 1004

4-100051

Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries

317 NE 144th Street Vancouver, WA 98685
360.576.6331

Pg 1 of 4

Turnaround Time:

Normal: ☒

Other:

Chain of Custody

Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead

Mint Valley Elementary

Feb 21, 2022

T. Nadermann

Sample ID	Location/Description	Analysis	Comments
MV-201-DW	Glass - 201 - Water Fountain	Lead	EPA Method 200.8
MV-202-F1	" - 202 - Sink Faucet-1		
MV-202-F2	" - 202 - " - 2		
" - 203-F	" - 203 - "		
" - 203-DW	" - 203 - Water Fountain		
" - 204-F	" - 204 - Sink Faucet		
" - 204-DW	" - 204 - Water Fountain		
" - 205-F	" - 205 - Sink Faucet		
" - 205-WF	" - 205 - Water Fountain		
" - 206-F	" - 206 - Sink Faucet		
" - 206-WF	" - 206 - Water Fountain		
" - 2.B.F	Pod - Rest Rm - Sink		
" - 2.C.F	" - Rest Rm - "		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

Michael Kuchin
11:22
2-23-22

Apex Laboratories

Darrell Auvil, Client Services Manager

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Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2B0851 - 03 14 22 1004


Sterling Technologies, LLC
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environmental and manufacturing industries
317 NE 144th Street Vancouver, WA 98685
360.576.6331

Chain of Custody Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead
Mint Valley Elementary
Feb 21, 2022
T. Nadermann

Turnaround Time:

Normal: X

Other:

Pg 2 of 4

Sample ID	Location/Description	Analysis	Comments
MV-301-F	Class-Rm-301-Sink Faucet	Lead	EPA Method 200.8
MV-301-DW	"-301-Water Fountain		
"-302-F1	"-302-Sink Faucet-#1		
"-302-F2	"-302-Sink Faucet-#2		
"-303-F	"-303-Sink Faucet		
"-303-WF	"-303-Water Fountain		
"-304-F	"-304-Sink Faucet		
"-304-DW	"-304-Water Fountain		
"-305-F	"-305-Sink Faucet		
"-305-DW	"-305-Water Fountain		
"-306-F	"-306-Sink Faucet		
"-306-DW	"-306-Water Fountain		
"-3-B-F	Pod-Rest Rm-Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022


M. Kishikawa
11:22
2/23/22

Apex Laboratories

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Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2B0851 - 03 14 22 1004


Sterling Technologies, LLC
Providing technical consulting support to the
environmental and manufacturing industries
317 NE 144th Street Vancouver, WA 98685
360.576.6331

Chain of Custody
Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead
Mint Valley Elementary
Feb 21, 2022
T. Nadermann

Turnaround Time:

Normal: ☒

Other: ☐

Sample ID	Location/Description	Analysis	Comments
MV-S-W-F	Pool Main Womens - Sink	Lead	EPA Method 200.8
MV-D-WF-1	" - " - Rest Rm - Faucet		
MV-D-WF-2	" - " - " - #1		
" - G-WF-1	" - " - " - #2		
" - G-WF-2	Gym - Water Fountain - #1		
" - G-WF-2	" - " - " - #2		
" - G-B-F1	" - Boys Rest Rm - Sink - #1		
" - G-B-F2	" - " - " - " - #2		
" - G-G-F1	" - Girls Rest Rm - " - #1		
" - G-G-F2	" - " - " - " - #2		
" - K-RR-F	Kitchen - Rest Room - Sink - Faucet	↓	

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022


M. Kachink
11:22
2-23-22

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Darrell Auvil, Client Services Manager



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Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Mint Valley Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0851 - 03 14 22 1004

APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies LLC **Element WO#:** A2B0851

Project/Project #: Test Drinking Water for Lead- Mint Valley Elementary

Delivery Info:

Date/time received: 2-23-22 @ 11:22 **By:** MK

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other

Cooler Inspection **Date/time inspected:** 2-23-22 @ 12:50 **By:** MK

Chain of Custody included? Yes ☒ No ☐ **Custody seals?** Yes ☐ No ☒

Signed/dated by client? Yes ☒ No ☐

Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	11.4						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	N/A						
Condition:	good						

Cooler out of temp? (Y/N) Possible reason why: Drinking Water/Lead Testing

Green dots applied to out of temperature samples? Yes ☒ No ☐

Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: **Date/time inspected:** 2/25/22 @ 12:57 **By:** ZAM

All samples intact? Yes ☒ No ☐ **Comments:**

ZAM 2/25/22

Bottle labels/COCs agree? Yes ☒ No ☐ **Comments:** See Form

COC/container discrepancies form initiated? Yes ☒ No ☐ ZAM 2/25/22

Containers/volumes received appropriate for analysis? Yes ☒ No ☐ **Comments:**

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked? Yes ☒ No ☐ NA ☐ **pH appropriate?** Yes ☒ No ☐ NA ☐

Comments:

Additional information:

Labeled by: ZAM **Witness:** ST **Cooler Inspected by:** ZAM

Apex Laboratories

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Darrell Auvin

Darrell Auvin, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, May 25, 2022

Thomas Nadermann
Sterling Technologies LLC
317 NE 144th St
Vancouver, WA 98685

RE: A2E0317 - Drinking Water - 2022 - Mint Valley Elementary

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2E0317, which was received by the laboratory on 5/6/2022 at 4:15:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	19.6 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Mint Valley Elementary**
Project Manager: **Thomas Nadermann****Report ID:****A2E0317 - 05 25 22 1219****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MV-5-501-DW	A2E0317-01	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-502-DW	A2E0317-02	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-503-F	A2E0317-03	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-503-DW	A2E0317-04	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-504-F	A2E0317-05	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-504-WF	A2E0317-06	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-505-F	A2E0317-07	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-505-DF	A2E0317-08	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-506-F	A2E0317-09	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-506-DW	A2E0317-10	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-501-F	A2E0317-11	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-5-B-LF	A2E0317-12	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-601-F	A2E0317-13	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-601-BRF	A2E0317-14	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-601-BRRF	A2E0317-15	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-DF-E	A2E0317-16	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-F-E	A2E0317-17	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-F-W	A2E0317-18	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-WF-W	A2E0317-19	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-SRRF	A2E0317-20	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-604-GRRF	A2E0317-21	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-606-KRRF	A2E0317-22	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-606-SRRF	A2E0317-23	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-608-FW	A2E0317-24	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-608-FE	A2E0317-25	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-608-SRRF	A2E0317-26	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-608-KRRF	A2E0317-27	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-6-GEF	A2E0317-28	Drinking Water	05/03/22 00:00	05/06/22 16:15
MV-6-GWF	A2E0317-29	Drinking Water	05/03/22 00:00	05/06/22 16:15

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Mint Valley Elementary
Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-5-501-DW (A2E0317-01)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.325	---	0.200	ug/L	1	05/18/22 20:59	EPA 200.8	
MV-5-502-DW (A2E0317-02)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.221	---	0.200	ug/L	1	05/18/22 21:02	EPA 200.8	
MV-5-503-F (A2E0317-03)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	ND	---	0.200	ug/L	1	05/18/22 21:06	EPA 200.8	
MV-5-503-DW (A2E0317-04)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.907	---	0.200	ug/L	1	05/18/22 21:09	EPA 200.8	
MV-504-F (A2E0317-05)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.207	---	0.200	ug/L	1	05/18/22 21:20	EPA 200.8	
MV-504-WF (A2E0317-06)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	ND	---	0.200	ug/L	1	05/18/22 21:23	EPA 200.8	
MV-505-F (A2E0317-07)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/18/22 21:38	EPA 200.8	
MV-505-DF (A2E0317-08)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/18/22 21:49	EPA 200.8	
MV-5-506-F (A2E0317-09)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/18/22 21:52	EPA 200.8	
MV-5-506-DW (A2E0317-10)				Matrix: Drinking Water				
Batch: 22E0726								

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Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-5-506-DW (A2E0317-10)				Matrix: Drinking Water				
Lead	ND	---	0.200	ug/L	1	05/18/22 22:03	EPA 200.8	
MV-5-501-F (A2E0317-11)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/18/22 22:07	EPA 200.8	
MV-5-B-LF (A2E0317-12)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/18/22 22:10	EPA 200.8	
MV-601-F (A2E0317-13)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	0.636	---	0.200	ug/L	1	05/18/22 22:13	EPA 200.8	
MV-601-BRF (A2E0317-14)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	1.03	---	0.200	ug/L	1	05/18/22 22:17	EPA 200.8	
MV-601-BRRF (A2E0317-15)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	0.461	---	0.200	ug/L	1	05/18/22 22:20	EPA 200.8	
MV-604-DF-E (A2E0317-16)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	1.05	---	0.200	ug/L	1	05/18/22 22:23	EPA 200.8	
MV-604-F-E (A2E0317-17)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	1.21	---	0.200	ug/L	1	05/18/22 22:27	EPA 200.8	
MV-604-F-W (A2E0317-18)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	0.303	---	0.200	ug/L	1	05/18/22 22:30	EPA 200.8	
MV-604-WF-W (A2E0317-19)				Matrix: Drinking Water				
Batch: 22E0726								

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Sterling Technologies LLC317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Mint Valley Elementary
Project Manager: Thomas NadermannReport ID:

A2E0317 - 05 25 22 1219

ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-604-WF-W (A2E0317-19)				Matrix: Drinking Water				
Lead	0.436	---	0.200	ug/L	1	05/18/22 22:33	EPA 200.8	
MV-604-SRRF (A2E0317-20RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	0.231	---	0.200	ug/L	1	05/19/22 19:03	EPA 200.8	
MV-604-GRRF (A2E0317-21RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	0.528	---	0.200	ug/L	1	05/19/22 19:07	EPA 200.8	
MV-606-KRRF (A2E0317-22RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	3.24	---	0.200	ug/L	1	05/19/22 19:10	EPA 200.8	
MV-606-SRRF (A2E0317-23RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/19/22 19:13	EPA 200.8	
MV-608-FW (A2E0317-24RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	4.24	---	0.200	ug/L	1	05/19/22 19:17	EPA 200.8	
MV-608-FE (A2E0317-25RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	1.87	---	0.200	ug/L	1	05/19/22 19:21	EPA 200.8	
MV-608-SRRF (A2E0317-26RE1)				Matrix: Drinking Water				
Batch: 22E0726								
Lead	ND	---	0.200	ug/L	1	05/19/22 19:24	EPA 200.8	
MV-608-KRRF (A2E0317-27RE1)				Matrix: Drinking Water				
Batch: 22E0728								
Lead	1.47	---	0.200	ug/L	1	05/19/22 19:46	EPA 200.8	
MV-6-GEF (A2E0317-28RE1)				Matrix: Drinking Water				
Batch: 22E0728								

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ORELAP ID: OR100062

Sterling Technologies LLC317 NE 144th St
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Mint Valley Elementary**Project Manager: **Thomas Nadermann****Report ID:****A2E0317 - 05 25 22 1219****ANALYTICAL SAMPLE RESULTS****Total Metals in Drinking Water by EPA 200.8 (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MV-6-GEF (A2E0317-28RE1)				Matrix: Drinking Water				
Lead	0.201	---	0.200	ug/L	1	05/19/22 19:57	EPA 200.8	
MV-6-GWF (A2E0317-29RE1)				Matrix: Drinking Water				
Batch: 22E0728								
Lead	0.356	---	0.200	ug/L	1	05/19/22 20:00	EPA 200.8	

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317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22E0720 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0720-BLK1)			Prepared: 05/18/22 15:12 Analyzed: 05/18/22 19:42									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0720-BS1)			Prepared: 05/18/22 15:12 Analyzed: 05/18/22 19:45									
EPA 200.8												
Lead	14.6	---	0.201	ug/L	1	15.0	---	97	85-115%	---	---	
Duplicate (22E0720-DUP1)			Prepared: 05/18/22 15:12 Analyzed: 05/18/22 20:01									
QC Source Sample: Non-SDG (A2E0301-73)												
Lead	0.735	---	0.200	ug/L	1	---	0.784	---	---	6	20%	
Matrix Spike (22E0720-MS1)			Prepared: 05/18/22 15:12 Analyzed: 05/18/22 20:04									
QC Source Sample: Non-SDG (A2E0301-73)												
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	0.784	94	70-130%	---	---	
Matrix Spike (22E0720-MS2)			Prepared: 05/18/22 15:12 Analyzed: 05/18/22 21:27									
QC Source Sample: MV-504-WF (A2E0317-06)												
EPA 200.8												
Lead	14.0	---	0.201	ug/L	1	15.0	0.172	92	70-130%	---	---	
Batch 22E0726 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0726-BLK1)			Prepared: 05/18/22 17:29 Analyzed: 05/18/22 21:31									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0726-BS1)			Prepared: 05/18/22 17:29 Analyzed: 05/18/22 21:34									
EPA 200.8												
Lead	14.4	---	0.201	ug/L	1	15.0	---	96	85-115%	---	---	
Duplicate (22E0726-DUP1)			Prepared: 05/18/22 17:29 Analyzed: 05/18/22 21:41									
QC Source Sample: MV-505-F (A2E0317-07)												

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22E0726 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22E0726-DUP1)			Prepared: 05/18/22 17:29 Analyzed: 05/18/22 21:41									
QC Source Sample: MV-505-F (A2E0317-07)												
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	0.169	---	---	***	20%	
Matrix Spike (22E0726-MS1)			Prepared: 05/18/22 17:29 Analyzed: 05/18/22 21:45									
QC Source Sample: MV-505-F (A2E0317-07)												
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	0.169	94	70-130%	---	---	
Matrix Spike (22E0726-MS3)			Prepared: 05/18/22 17:29 Analyzed: 05/19/22 19:35									
QC Source Sample: MV-608-SRRF (A2E0317-26RE1)												
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	0.179	94	70-130%	---	---	Q-16

Apex Laboratories

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Project Manager: Thomas Nadermann

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A2E0317 - 05 25 22 1219

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22E0728 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0728-BLK2)			Prepared: 05/18/22 18:55 Analyzed: 05/19/22 19:39									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22E0728-BS2)			Prepared: 05/18/22 18:55 Analyzed: 05/19/22 19:42									
EPA 200.8												
Lead	14.3	---	0.201	ug/L	1	15.0	---	95	85-115%	---	---	Q-16
Duplicate (22E0728-DUP2)			Prepared: 05/18/22 18:55 Analyzed: 05/19/22 19:50									
QC Source Sample: MV-608-KRRF (A2E0317-27RE1)												
EPA 200.8												
Lead	1.44	---	0.200	ug/L	1	---	1.47	---	---	2	20%	Q-16
Matrix Spike (22E0728-MS2)			Prepared: 05/18/22 18:55 Analyzed: 05/19/22 19:53									
QC Source Sample: MV-608-KRRF (A2E0317-27RE1)												
EPA 200.8												
Lead	15.3	---	0.201	ug/L	1	15.0	1.47	92	70-130%	---	---	Q-16

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ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Mint Valley Elementary**
Project Manager: **Thomas Nadermann****Report ID:****A2E0317 - 05 25 22 1219****SAMPLE PREPARATION INFORMATION****Total Metals in Drinking Water by EPA 200.8 (ICPMS)**

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22E0720							
A2E0317-01	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0317-02	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0317-03	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0317-04	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0317-05	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0317-06	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
Batch: 22E0726							
A2E0317-07	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-08	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-09	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-10	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-11	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-12	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-13	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-14	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-15	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-16	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-17	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-18	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-19	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-20RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-21RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-22RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-23RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-24RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-25RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
A2E0317-26RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 17:29	10mL/10mL	10mL/10mL	1.00
Batch: 22E0728							
A2E0317-27RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 18:55	10mL/10mL	10mL/10mL	1.00
A2E0317-28RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 18:55	10mL/10mL	10mL/10mL	1.00
A2E0317-29RE1	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 18:55	10mL/10mL	10mL/10mL	1.00

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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503-718-2323
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Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Mint Valley Elementary
Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-16 Reanalysis of an original Batch QC sample.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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A2E0317 - 05 25 22 1219

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Project Manager: **Thomas Nadermann**

Report ID:

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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A2E0317

Sterling Technologies, LLC

 Providing technical consulting support to the
 environmental and manufacturing industries

 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Pg 1 of 3


 Chain of Custody
 Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

 Mint Valley Elementary
 2745 38th Ave., Longview, WA
 May 3, 2022
 T. Nadermann

Turnaround Time:

 Normal: ☒

Other:

Sample ID	Location/Description	Analysis	Comments
MV-5-501-DW	Class 501 Water Fountain	Pb	
MV-5-502-DW	" 502 "	Pb	
MV-5-503-F	" 503 Faucet	Pb	
MV-5-503-DW	" " Water Fountain	Pb	
MV-504-F	" 504 Faucet	Pb	
MV-504-WF	" " Water Fountain	Pb	
MV-505-F	" 505 Faucet	Pb	
MV-505-DF	" 505 Water Fountain	Pb	
MV-5-506-F	" 506 Faucet	Pb	
MV-5-506-DW	" 506 Water Fountain	Pb	
MV-5-501-F	" 501 Faucet	Pb	
MV-5-B-LF	Blk 5 Restroom Left Faucet	Pb	

Sampled by:

T. Nadermann

E. Wilson

Received: 035 Diego Silva

Date: May 6, 2022

5-6-22 1615

Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Mint Valley Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

A2E0317

Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries

317 NE 144th Street Vancouver, WA 98685
360.576.6331

Pg 2 of 3

Turnaround Time:

Normal: ☒

Other:

Chain of Custody

Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Mint Valley Elementary
2745 38th Ave., Longview, WA
May 3, 2022
T. Nadermann

Sample ID	Location/Description	Analysis	Comments
MV-601-F	Class. 601. Faucet	Pb	
MV-601-BRF	" 601. Rest. Faucet	Pb	
MV-601-BRRF	" 601. Boys. Rest. Faucet	Pb	
MV-604-DF-E	" 604. East Water Fountain	Pb	
MV-604-F-E	" 604. East. Faucet	Pb	
MV-604-F-W	" " " West	Pb	
MV-604-WF-W	" " " " Water Fountain	Pb	
MV-604-SRRF	" " Staff. Rest. Faucet	Pb	
MV-604-GRRF	" " Girls. " " "	Pb	
MV-606-KRRF	" 606. Kids. " " "	Pb	
MV-606-SRRF	" 606. Staff. " " "	Pb	
MV-608-FW	" 608. Faucet. West	Pb	
MV-608-FE	" 608. " East	Pb	

Sampled by:

E. Wilson

T. Nadermann

May 6, 2022

Date:



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022Project Number: Mint Valley ElementaryProject Manager: Thomas Nadermann

Report ID:

A2E0317 - 05 25 22 1219

APEX LABS COOLER RECEIPT FORM

Client: ^{DJS 5-6-22} Mint Valley Elementary Element WO#: A2E0317Project/Project #: Mint Valley Elementary

Delivery Info:

Date/time received: 5-6-22 @ 1615 By: DJSDelivered by: Apex ☐ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 5-6-22 @ 1625 By: DJSChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.6</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>None</u>						
Condition:	<u>Good</u>						

Cooler out of temp? ☒ (N) Possible reason why: Drinking WatersGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 5-9-22 @ 1555 By: DJSAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☐ No ☒ Comments: MV-608 - SBAF reads Staff B/R.MV-608 - KRAF reads Kids B/R. MV-6-GWF reads MV-6-W.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: _____Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments: _____

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments: _____

Additional information: - No Date and Time on Containers.

Labeled by:

DJS

Witness:

ZAM

Cooler Inspected by:

DJS

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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