

Limited Lead in Drinking Water Assessment

**Longview Public Schools
Longview, Washington
Robert Gray Elementary School**



Assessment Date(s): May 3, 2022

Report Date: June 2, 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 Robert Gray Elementary School, Longview School District, located at 4622 Ohio Street in 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 86 drinking water sources at the school.

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

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

6 samples were noted to contain lead but were below the federal standard.

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...



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)
32	RG-208-RF	Classroom #208, Right Sink Faucet	0.602
33	RG-208-LF	Classroom #208, Left Sink Faucet	0.647
34	RG-211-F	Classroom #211, Sink Faucet	0.591
35	RG-211-DF	Classroom #211, Drinking Fountain	0.414
36	RG-213-DF	Classroom #213, Drinking Fountain	0.331
37	RG-213-F	Classroom #213, Sink Faucet	0.537
38	RG-217-F	Classroom #217, Sink Faucet	0.813
39	RG-217-DF	Classroom #217, Drinking Fountain	0.418
40	RG-218-F	Classroom #218, Sink Faucet	0.370
41	RG-218-DF	Classroom #218, Drinking Fountain	0.367
42	RG-219-DF	Classroom #219, Drinking Fountain	0.463
43	RG-219-F	Classroom #219, Sink Faucet	0.719
44	RG-220-F	Classroom #220, Sink Faucet	1.70
45	RG-220-DW	Classroom #220, Drinking Fountain	1.34
46	RG-222-DW	Classroom #222, Drinking Fountain	ND
47	RG-222-F	Classroom #212, Sink Faucet	1.59
48	RG-224-F	Classroom #224, Sink Faucet	0.376
49	RG-224-DW	Classroom #224, Drinking Fountain	0.422
50	RG-M-F	Music Room, Sink Faucet	3.78
51	RG-G-DW	Gymnasium, Drinking Fountain	ND
52	RG-K-SE-F	Kitchen, Southeast Sink Faucet	8.09
53	RG-K-NW-F	Kitchen, Northwest Sink Faucet	3.62
54	RG-N-F	Nurses Office, Sink Faucet	2.88
55	RG-N-R-F	Nurses Office, Restroom, Sink Faucet	0.394
56	RG-L-F	Library, Sink Faucet	1.28
57	RG-S-F	Sensory Room, Sink Faucet	3.50
58	RG-S-RR-F	Sensory Room, Restroom, Sink Faucet	0.302
59	RG-ST-F	Staff Room, Sink Faucet	3.42
60	RG-LDY-F	Laundry, Restroom, Sink Faucet	0.426
61	RG-AD-RRL-F	Administration, Restroom, Left Sink Faucet	0.825
62	RG-AD-RR-RL	Administration, Restroom, Right Sink Faucet	1.58
63	RG-110-GRR-R	Girls Restroom by Classroom #110, Right Sink Faucet	0.997



Item	Sample ID.	Location	Result (µ/L)
32	RG-208-RF	Classroom #208, Right Sink Faucet	0.602
64	RG-110-GRR-L	Girls Restroom by Classroom #110, Left Sink Faucet	1.18

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)
65	RG-113-BRR-R	Boys Restroom by Classroom #113, Right Sink Faucet	1.20
66	RG-113-BRR-R	Boys Restroom by Classroom #113, Left Sink Faucet	1.36
67	RG-H-DF-R	Left Hall, Drinking Fountain	0.522
68	RG-H-DF-R	Right Hall, Drinking Fountain	ND
69	RG-124-GRR-R	Girls Restroom by Classroom #124, Right Sink Faucet	0.978
70	RG-124-GRR-L	Girls Restroom by Classroom #124, Left Sink Faucet	0.556
71	RG-BRR-119-R	Boys Restroom by Classroom #119, Right Sink Faucet	1.70
72	RG-BRR-119-L	Boys Restroom by Classroom #119, Left Sink Faucet	0.702
73	RG-202-BRR-R	Boys Restroom by Classroom #202, Right Sink Faucet	0.784
74	RG-202-BRR-L	Boys Restroom by Classroom #202, Left Sink Faucet	0.930
75	RG-ACF-F	Administration, Center Filing, Sink Faucet	0.423
76	RG-NE-SRR-F	Northeast Staff Rest Room, Sink Faucet	0.363
77	RG-GRR-E-F-W	East Hall, Girls Restroom, West Sink Faucet	1.21
78	RG-GRR-E-F-E	East Hall, Girls Restroom, East Sink Faucet	0.759
79	RG-BRR-SW-F-E	Southwest Hall, Boys Restroom, East Sink Faucet	0.534
80	RG-BRR-SW-F-W	Southwest Hall, Boys Restroom, West Sink Faucet	0.721
81	RG-GRR-SW-F-E	Southwest Hall, Girls Restroom, East Sink Faucet	0.436
82	RG-GRR-SW-F-W	Southwest Hall, Girls Restroom, West Sink Faucet	0.461
83	RG-BRR-W-F-E	West Hall, Boys Restroom, East Sink Faucet	1.45
84	RG-BRR-W-F-W	West Hall, Boys Restroom, West Sink Faucet	0.786
85	RG-GRR-W-F-E	West Hall, Girls Restroom, East Sink Faucet	1.11
86	RG-GRR-W-F-W	West Hall, Girls Restroom, West Sink Faucet	0.447

ND = Non-Detect

As highlighted () in the above tables on this and the previous pages, the lab result for 1 of the 86 drinking water samples collected was found to be at or above the 15 ppb action level for lead in drinking water. The remaining 85 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 ().



Report *continued on the next page...*

Conclusions and Recommendations

One drinking water location was noted to have an elevated lead level—the first drinking water fountain encountered upon entering the classroom 128. No elevated lead in drinking water levels were noted in the other locations that were sampled at the school, and the results for these other locations were below the lead in drinking water EPA standard under the Safe Drinking Water Act of 15 parts per billion. Seven 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 Robert Gray Elementary School plumbing systems (school built in 1955 and remodeled in 1997) and the elevated and/or lead levels above baseline noted in the drinking water sources in eight room locations on campus, (classrooms 104 and 128, music room, kitchen, nurses area, sensory room, and staff break room), 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).

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.



Report continued on *next page*...

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,

A handwritten signature in black ink, appearing to read "Nadermann", written in a cursive style.

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

Wednesday, May 25, 2022

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

RE: A2E0301 - Drinking Water - 2022 - Robert Gray 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 A2E0301, 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	19.2 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

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



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: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RG-104-F	A2E0301-01	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-104-DW	A2E0301-02	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-106-F	A2E0301-03	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-106-DF	A2E0301-04	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-107-DW	A2E0301-05	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-107-F	A2E0301-06	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-108-F	A2E0301-07	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-108-DF	A2E0301-08	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-109-DW	A2E0301-09	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-109-F	A2E0301-10	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-113-F	A2E0301-11	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-113-DW	A2E0301-12	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-115-F	A2E0301-13	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-115-DW	A2E0301-14	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-119-DW	A2E0301-15	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-119-F	A2E0301-16	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-120-F	A2E0301-17	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-120-DF	A2E0301-18	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-121-DF	A2E0301-19	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-121-F	A2E0301-20	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-122-F	A2E0301-21	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-124-F	A2E0301-22	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-124-DF	A2E0301-23	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-126-DF	A2E0301-24	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-126-F	A2E0301-25	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-128-F	A2E0301-26	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-128-DF	A2E0301-27	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-207-DF	A2E0301-28	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-207-F	A2E0301-29	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-208-SF	A2E0301-30	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-208-SDW	A2E0301-31	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-208-RF	A2E0301-32	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-208-LF	A2E0301-33	Drinking Water	05/03/22 00:00	05/06/22 16:15

Apex Laboratories

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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: **Robert Gray Elementary**
Project Manager: **Thomas Nadermann****Report ID:****A2E0301 - 05 25 22 1720****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RG-211-F	A2E0301-34	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-211-DF	A2E0301-35	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-213-DF	A2E0301-36	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-213-F	A2E0301-37	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-217-F	A2E0301-38	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-217-DF	A2E0301-39	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-218-F	A2E0301-40	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-218-DF	A2E0301-41	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-219-DF	A2E0301-42	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-219-F	A2E0301-43	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-220-F	A2E0301-44	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-220-DW	A2E0301-45	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-222-DW	A2E0301-46	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-222-F	A2E0301-47	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-224-F	A2E0301-48	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-224-DW	A2E0301-49	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-M-F	A2E0301-50	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-G-DW	A2E0301-51	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-K-SE-F	A2E0301-52	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-K-NW-F	A2E0301-53	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-N-F	A2E0301-54	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-N-RR-F	A2E0301-55	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-L-F	A2E0301-56	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-S-F	A2E0301-57	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-S-RR-F	A2E0301-58	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-ST-F	A2E0301-59	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-LDY-F	A2E0301-60	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-AD-RRL-F	A2E0301-61	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-AD-RR-RL	A2E0301-62	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-110-GRR-R	A2E0301-63	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-110-GRR-L	A2E0301-64	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-113-BRR-R	A2E0301-65	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-113-BRR-L	A2E0301-66	Drinking Water	05/03/22 00:00	05/06/22 16:15

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Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RG-H-DF-R	A2E0301-67	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-H-DF-L	A2E0301-68	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-124-GRR-R	A2E0301-69	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-124-GRR-L	A2E0301-70	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-119-R	A2E0301-71	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-119-L	A2E0301-72	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-202-BRR-R	A2E0301-73	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-202-BRR-L	A2E0301-74	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-ACF-F	A2E0301-75	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-NE-SRR-F	A2E0301-76	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-E-F-W	A2E0301-77	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-E-F-E	A2E0301-78	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-SW-F-E	A2E0301-79	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-SW-F-W	A2E0301-80	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-SW-F-E	A2E0301-81	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-SW-F-W	A2E0301-82	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-W-F-E	A2E0301-83	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-BRR-W-F-W	A2E0301-84	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-F-E	A2E0301-85	Drinking Water	05/03/22 00:00	05/06/22 16:15
RG-GRR-F-W	A2E0301-86	Drinking Water	05/03/22 00:00	05/06/22 16:15

Apex Laboratories

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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 98685

Project: Drinking Water - 2022

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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
RG-104-F (A2E0301-01)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	8.67	---	0.200	ug/L	1	05/17/22 21:20	EPA 200.8	
RG-104-DW (A2E0301-02)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.581	---	0.200	ug/L	1	05/17/22 21:24	EPA 200.8	
RG-106-F (A2E0301-03)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	1.14	---	0.200	ug/L	1	05/17/22 21:28	EPA 200.8	
RG-106-DF (A2E0301-04)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.552	---	0.200	ug/L	1	05/17/22 21:31	EPA 200.8	
RG-107-DW (A2E0301-05)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.463	---	0.200	ug/L	1	05/17/22 21:34	EPA 200.8	
RG-107-F (A2E0301-06)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.500	---	0.200	ug/L	1	05/17/22 21:38	EPA 200.8	
RG-108-F (A2E0301-07)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.463	---	0.200	ug/L	1	05/17/22 21:49	EPA 200.8	
RG-108-DF (A2E0301-08)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.598	---	0.200	ug/L	1	05/17/22 21:52	EPA 200.8	
RG-109-DW (A2E0301-09)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.458	---	0.200	ug/L	1	05/17/22 21:55	EPA 200.8	
RG-109-F (A2E0301-10)				Matrix: Drinking Water				
Batch: 22E0652								

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sterling Technologies LLC

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

Report ID:

A2E0301 - 05 25 22 1720

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
RG-109-F (A2E0301-10)				Matrix: Drinking Water				
Lead	0.928	---	0.200	ug/L	1	05/17/22 21:59	EPA 200.8	
RG-113-F (A2E0301-11)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.240	---	0.200	ug/L	1	05/17/22 22:02	EPA 200.8	
RG-113-DW (A2E0301-12)				Matrix: Drinking Water				
Batch: 22E0652								
Lead	0.329	---	0.200	ug/L	1	05/17/22 22:05	EPA 200.8	
RG-115-F (A2E0301-13)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.394	---	0.200	ug/L	1	05/17/22 22:20	EPA 200.8	
RG-115-DW (A2E0301-14)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.233	---	0.200	ug/L	1	05/17/22 22:39	EPA 200.8	
RG-119-DW (A2E0301-15)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.452	---	0.200	ug/L	1	05/17/22 22:42	EPA 200.8	
RG-119-F (A2E0301-16)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.722	---	0.200	ug/L	1	05/17/22 22:45	EPA 200.8	
RG-120-F (A2E0301-17)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	1.18	---	0.200	ug/L	1	05/17/22 22:49	EPA 200.8	
RG-120-DF (A2E0301-18)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.998	---	0.200	ug/L	1	05/17/22 22:52	EPA 200.8	
RG-121-DF (A2E0301-19)				Matrix: Drinking Water				
Batch: 22E0665								

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Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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
RG-121-DF (A2E0301-19)				Matrix: Drinking Water				
Lead	0.829	---	0.200	ug/L	1	05/17/22 22:55	EPA 200.8	
RG-121-F (A2E0301-20)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.852	---	0.200	ug/L	1	05/17/22 22:59	EPA 200.8	
RG-122-F (A2E0301-21)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.473	---	0.200	ug/L	1	05/17/22 23:02	EPA 200.8	
RG-124-F (A2E0301-22)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.874	---	0.200	ug/L	1	05/17/22 23:13	EPA 200.8	
RG-124-DF (A2E0301-23)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.564	---	0.200	ug/L	1	05/17/22 23:17	EPA 200.8	
RG-126-DF (A2E0301-24)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.421	---	0.200	ug/L	1	05/17/22 23:20	EPA 200.8	
RG-126-F (A2E0301-25)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.677	---	0.200	ug/L	1	05/17/22 23:23	EPA 200.8	
RG-128-F (A2E0301-26)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	23.0	---	0.200	ug/L	1	05/17/22 23:27	EPA 200.8	
RG-128-DF (A2E0301-27)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	1.47	---	0.200	ug/L	1	05/17/22 23:31	EPA 200.8	
RG-207-DF (A2E0301-28)				Matrix: Drinking Water				
Batch: 22E0665								

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A2E0301 - 05 25 22 1720

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
RG-207-DF (A2E0301-28)				Matrix: Drinking Water				
Lead	0.210	---	0.200	ug/L	1	05/17/22 23:34	EPA 200.8	
RG-207-F (A2E0301-29)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.375	---	0.200	ug/L	1	05/17/22 23:37	EPA 200.8	
RG-208-SF (A2E0301-30)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.477	---	0.200	ug/L	1	05/17/22 23:41	EPA 200.8	
RG-208-SDW (A2E0301-31)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.725	---	0.200	ug/L	1	05/17/22 23:44	EPA 200.8	
RG-208-RF (A2E0301-32)				Matrix: Drinking Water				
Batch: 22E0665								
Lead	0.602	---	0.200	ug/L	1	05/17/22 23:55	EPA 200.8	
RG-208-LF (A2E0301-33)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.647	---	0.200	ug/L	1	05/18/22 00:10	EPA 200.8	
RG-211-F (A2E0301-34)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.591	---	0.200	ug/L	1	05/18/22 00:21	EPA 200.8	
RG-211-DF (A2E0301-35)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.414	---	0.200	ug/L	1	05/18/22 00:24	EPA 200.8	
RG-213-DF (A2E0301-36)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.331	---	0.200	ug/L	1	05/18/22 00:28	EPA 200.8	
RG-213-F (A2E0301-37)				Matrix: Drinking Water				
Batch: 22E0669								

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Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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
RG-213-F (A2E0301-37)				Matrix: Drinking Water				
Lead	0.537	---	0.200	ug/L	1	05/18/22 00:39	EPA 200.8	
RG-217-F (A2E0301-38)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.813	---	0.200	ug/L	1	05/18/22 00:42	EPA 200.8	
RG-217-DF (A2E0301-39)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.418	---	0.200	ug/L	1	05/18/22 00:46	EPA 200.8	
RG-218-F (A2E0301-40)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.370	---	0.200	ug/L	1	05/18/22 00:49	EPA 200.8	
RG-218-DF (A2E0301-41)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.367	---	0.200	ug/L	1	05/18/22 00:52	EPA 200.8	
RG-219-DF (A2E0301-42)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.463	---	0.200	ug/L	1	05/18/22 00:56	EPA 200.8	
RG-219-F (A2E0301-43)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	0.719	---	0.200	ug/L	1	05/18/22 00:59	EPA 200.8	
RG-220-F (A2E0301-44)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	1.70	---	0.200	ug/L	1	05/18/22 01:03	EPA 200.8	
RG-220-DW (A2E0301-45)				Matrix: Drinking Water				
Batch: 22E0669								
Lead	1.34	---	0.200	ug/L	1	05/18/22 01:07	EPA 200.8	
RG-222-DW (A2E0301-46)				Matrix: Drinking Water				
Batch: 22E0669								

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Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Robert Gray Elementary
Project Manager: Thomas NadermannReport ID:

A2E0301 - 05 25 22 1720

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
RG-222-DW (A2E0301-46)		Matrix: Drinking Water						
Lead	ND	---	0.200	ug/L	1	05/18/22 01:10	EPA 200.8	
RG-222-F (A2E0301-47)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	1.59	---	0.200	ug/L	1	05/18/22 01:21	EPA 200.8	
RG-224-F (A2E0301-48)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	0.376	---	0.200	ug/L	1	05/18/22 01:24	EPA 200.8	
RG-224-DW (A2E0301-49)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	0.422	---	0.200	ug/L	1	05/18/22 01:28	EPA 200.8	
RG-M-F (A2E0301-50)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	3.78	---	0.200	ug/L	1	05/18/22 01:31	EPA 200.8	
RG-G-DW (A2E0301-51)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	ND	---	0.200	ug/L	1	05/18/22 01:35	EPA 200.8	
RG-K-SE-F (A2E0301-52)		Matrix: Drinking Water						
Batch: 22E0669								
Lead	8.09	---	0.200	ug/L	1	05/18/22 01:39	EPA 200.8	
RG-K-NW-F (A2E0301-53)		Matrix: Drinking Water						
Batch: 22E0714								
Lead	3.62	---	0.200	ug/L	1	05/18/22 16:00	EPA 200.8	
RG-N-F (A2E0301-54)		Matrix: Drinking Water						
Batch: 22E0714								
Lead	2.88	---	0.200	ug/L	1	05/18/22 16:12	EPA 200.8	
RG-N-RR-F (A2E0301-55)		Matrix: Drinking Water						
Batch: 22E0714								

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Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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
RG-N-RR-F (A2E0301-55)				Matrix: Drinking Water				
Lead	0.394	---	0.200	ug/L	1	05/18/22 16:16	EPA 200.8	
RG-L-F (A2E0301-56)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	1.28	---	0.200	ug/L	1	05/18/22 18:28	EPA 200.8	
RG-S-F (A2E0301-57)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	3.50	---	0.200	ug/L	1	05/18/22 18:32	EPA 200.8	
RG-S-RR-F (A2E0301-58)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.302	---	0.200	ug/L	1	05/18/22 18:36	EPA 200.8	
RG-ST-F (A2E0301-59)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	3.42	---	0.200	ug/L	1	05/18/22 18:40	EPA 200.8	
RG-LDY-F (A2E0301-60)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.426	---	0.200	ug/L	1	05/18/22 18:44	EPA 200.8	
RG-AD-RRL-F (A2E0301-61)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.825	---	0.200	ug/L	1	05/18/22 18:48	EPA 200.8	
RG-AD-RR-RL (A2E0301-62)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	1.58	---	0.200	ug/L	1	05/18/22 18:51	EPA 200.8	
RG-110-GRR-R (A2E0301-63)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.997	---	0.200	ug/L	1	05/18/22 18:54	EPA 200.8	
RG-110-GRR-L (A2E0301-64)				Matrix: Drinking Water				
Batch: 22E0714								

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Report ID:

A2E0301 - 05 25 22 1720

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
RG-110-GRR-L (A2E0301-64)				Matrix: Drinking Water				
Lead	1.18	---	0.200	ug/L	1	05/18/22 18:58	EPA 200.8	
RG-113-BRR-R (A2E0301-65)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	1.20	---	0.200	ug/L	1	05/18/22 19:01	EPA 200.8	
RG-113-BRR-L (A2E0301-66)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	1.36	---	0.200	ug/L	1	05/18/22 19:12	EPA 200.8	
RG-H-DF-R (A2E0301-67)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.522	---	0.200	ug/L	1	05/18/22 19:15	EPA 200.8	
RG-H-DF-L (A2E0301-68)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	ND	---	0.200	ug/L	1	05/18/22 19:21	EPA 200.8	
RG-124-GRR-R (A2E0301-69)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.978	---	0.200	ug/L	1	05/18/22 19:25	EPA 200.8	
RG-124-GRR-L (A2E0301-70)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.556	---	0.200	ug/L	1	05/18/22 19:28	EPA 200.8	
RG-BRR-119-R (A2E0301-71)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	1.70	---	0.200	ug/L	1	05/18/22 19:31	EPA 200.8	
RG-BRR-119-L (A2E0301-72)				Matrix: Drinking Water				
Batch: 22E0714								
Lead	0.702	---	0.200	ug/L	1	05/18/22 19:35	EPA 200.8	
RG-202-BRR-R (A2E0301-73)				Matrix: Drinking Water				
Batch: 22E0720								

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Project: Drinking Water - 2022

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Project Manager: Thomas Nadermann

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A2E0301 - 05 25 22 1720

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
RG-202-BRR-R (A2E0301-73)				Matrix: Drinking Water				
Lead	0.784	---	0.200	ug/L	1	05/18/22 19:57	EPA 200.8	
RG-202-BRR-L (A2E0301-74)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.930	---	0.200	ug/L	1	05/18/22 20:08	EPA 200.8	
RG-ACF-F (A2E0301-75)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.423	---	0.200	ug/L	1	05/18/22 20:11	EPA 200.8	
RG-NE-SRR-F (A2E0301-76)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.363	---	0.200	ug/L	1	05/18/22 20:15	EPA 200.8	
RG-GRR-E-F-W (A2E0301-77)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	1.21	---	0.200	ug/L	1	05/18/22 20:18	EPA 200.8	
RG-GRR-E-F-E (A2E0301-78)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.759	---	0.200	ug/L	1	05/18/22 20:21	EPA 200.8	
RG-BRR-SW-F-E (A2E0301-79)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.534	---	0.200	ug/L	1	05/18/22 20:25	EPA 200.8	
RG-BRR-SW-F-W (A2E0301-80)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.721	---	0.200	ug/L	1	05/18/22 20:28	EPA 200.8	
RG-GRR-SW-F-E (A2E0301-81)				Matrix: Drinking Water				
Batch: 22E0720								
Lead	0.436	---	0.200	ug/L	1	05/18/22 20:39	EPA 200.8	
RG-GRR-SW-F-W (A2E0301-82)				Matrix: Drinking Water				
Batch: 22E0720								

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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: **Robert Gray Elementary**Project Manager: **Thomas Nadermann****Report ID:****A2E0301 - 05 25 22 1720****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
RG-GRR-SW-F-W (A2E0301-82)			Matrix: Drinking Water					
Lead	0.461	---	0.200	ug/L	1	05/18/22 20:42	EPA 200.8	
RG-BRR-W-F-E (A2E0301-83)			Matrix: Drinking Water					
Batch: 22E0720								
Lead	1.45	---	0.200	ug/L	1	05/18/22 20:46	EPA 200.8	
RG-BRR-W-F-W (A2E0301-84)			Matrix: Drinking Water					
Batch: 22E0720								
Lead	0.786	---	0.200	ug/L	1	05/18/22 20:49	EPA 200.8	
RG-GRR-F-E (A2E0301-85)			Matrix: Drinking Water					
Batch: 22E0720								
Lead	1.11	---	0.200	ug/L	1	05/18/22 20:52	EPA 200.8	
RG-GRR-F-W (A2E0301-86)			Matrix: Drinking Water					
Batch: 22E0720								
Lead	0.447	---	0.200	ug/L	1	05/18/22 20:56	EPA 200.8	

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Project Manager: Thomas Nadermann

Report ID:

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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 22E0652 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0652-BLK1)			Prepared: 05/17/22 14:49 Analyzed: 05/17/22 20:30									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0652-BS1)			Prepared: 05/17/22 14:49 Analyzed: 05/17/22 20:34									
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	---	94	85-115%	---	---	
Duplicate (22E0652-DUP1)			Prepared: 05/17/22 14:49 Analyzed: 05/17/22 20:41									
QC Source Sample: Non-SDG (A2E0245-AZ)												
Lead	1.17	---	0.200	ug/L	1	---	1.18	---	---	1	20%	
Matrix Spike (22E0652-MS1)			Prepared: 05/17/22 14:49 Analyzed: 05/17/22 20:45									
QC Source Sample: Non-SDG (A2E0245-AZ)												
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	1.18	93	70-130%	---	---	
Matrix Spike (22E0652-MS2)			Prepared: 05/17/22 14:49 Analyzed: 05/17/22 22:09									
QC Source Sample: RG-113-DW (A2E0301-12)												
EPA 200.8												
Lead	13.7	---	0.201	ug/L	1	15.0	0.329	89	70-130%	---	---	
Batch 22E0665 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0665-BLK1)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 22:13									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0665-BS1)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 22:16									
EPA 200.8												
Lead	14.0	---	0.201	ug/L	1	15.0	---	94	85-115%	---	---	
Duplicate (22E0665-DUP1)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 22:31									
QC Source Sample: RG-115-F (A2E0301-13)												

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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 98685Project: Drinking Water - 2022Project Number: Robert Gray Elementary
Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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 22E0665 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22E0665-DUP1)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 22:31									
<u>QC Source Sample: RG-115-F (A2E0301-13)</u>												
<u>EPA 200.8</u>												
Lead	0.437	---	0.200	ug/L	1	---	0.394	---	---	10	20%	
Matrix Spike (22E0665-MS1)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 22:35									
<u>QC Source Sample: RG-115-F (A2E0301-13)</u>												
<u>EPA 200.8</u>												
Lead	13.2	---	0.201	ug/L	1	15.0	0.394	85	70-130%	---	---	
Matrix Spike (22E0665-MS2)			Prepared: 05/17/22 17:12 Analyzed: 05/17/22 23:59									
<u>QC Source Sample: RG-208-RF (A2E0301-32)</u>												
<u>EPA 200.8</u>												
Lead	14.6	---	0.201	ug/L	1	15.0	0.602	93	70-130%	---	---	

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503-718-2323

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Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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 22E0669 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0669-BLK1)			Prepared: 05/17/22 18:27 Analyzed: 05/18/22 00:03									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0669-BS1)			Prepared: 05/17/22 18:27 Analyzed: 05/18/22 00:06									
EPA 200.8												
Lead	13.9	---	0.201	ug/L	1	15.0	---	92	85-115%	---	---	
Duplicate (22E0669-DUP1)			Prepared: 05/17/22 18:27 Analyzed: 05/18/22 00:14									
QC Source Sample: RG-208-LF (A2E0301-33)												
EPA 200.8												
Lead	0.662	---	0.200	ug/L	1	---	0.647	---	---	2	20%	
Matrix Spike (22E0669-MS1)			Prepared: 05/17/22 18:27 Analyzed: 05/18/22 00:17									
QC Source Sample: RG-208-LF (A2E0301-33)												
EPA 200.8												
Lead	13.9	---	0.201	ug/L	1	15.0	0.647	88	70-130%	---	---	
Matrix Spike (22E0669-MS2)			Prepared: 05/17/22 18:27 Analyzed: 05/18/22 01:43									
QC Source Sample: RG-K-SE-F (A2E0301-52)												
EPA 200.8												
Lead	21.1	---	0.201	ug/L	1	15.0	8.09	87	70-130%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sterling Technologies LLC

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

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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 22E0714 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22E0714-BLK1)			Prepared: 05/18/22 13:44 Analyzed: 05/18/22 15:53									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22E0714-BS1)			Prepared: 05/18/22 13:44 Analyzed: 05/18/22 15:56									
EPA 200.8												
Lead	14.7	---	0.201	ug/L	1	15.0	---	98	85-115%	---	---	
Duplicate (22E0714-DUP1)			Prepared: 05/18/22 13:44 Analyzed: 05/18/22 16:04									
QC Source Sample: RG-K-NW-F (A2E0301-53)												
EPA 200.8												
Lead	3.76	---	0.200	ug/L	1	---	3.62	---	---	4	20%	
Matrix Spike (22E0714-MS1)			Prepared: 05/18/22 13:44 Analyzed: 05/18/22 16:08									
QC Source Sample: RG-K-NW-F (A2E0301-53)												
EPA 200.8												
Lead	17.9	---	0.201	ug/L	1	15.0	3.62	95	70-130%	---	---	
Matrix Spike (22E0714-MS2)			Prepared: 05/18/22 13:44 Analyzed: 05/18/22 19:38									
QC Source Sample: RG-BRR-119-L (A2E0301-72)												
EPA 200.8												
Lead	14.9	---	0.201	ug/L	1	15.0	0.702	95	70-130%	---	---	

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ORELAP ID: OR100062

Sterling Technologies LLC

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

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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: RG-202-BRR-R (A2E0301-73)												
EPA 200.8												
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: RG-202-BRR-R (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: Non-SDG (A2E0317-06)												
EPA 200.8												
Lead	14.0	---	0.201	ug/L	1	15.0	0.172	92	70-130%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Robert Gray Elementary

Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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: 22E0652							
A2E0301-01	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-02	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-03	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-04	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-05	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-06	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-07	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-08	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-09	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-10	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-11	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
A2E0301-12	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 14:49	10mL/10mL	10mL/10mL	1.00
Batch: 22E0665							
A2E0301-13	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-14	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-15	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-16	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-17	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-18	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-19	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-20	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-21	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-22	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-23	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-24	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-25	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-26	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-27	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-28	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-29	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-30	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-31	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
A2E0301-32	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 17:12	10mL/10mL	10mL/10mL	1.00
Batch: 22E0669							
A2E0301-33	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00

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Page 20 of 34

**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: **Robert Gray Elementary**Project Manager: **Thomas Nadermann****Report ID:****A2E0301 - 05 25 22 1720****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
A2E0301-34	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-35	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-36	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-37	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-38	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-39	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-40	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-41	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-42	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-43	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-44	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-45	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-46	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-47	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-48	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-49	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-50	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-51	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00
A2E0301-52	Drinking Water	EPA 200.8	05/03/22 00:00	05/17/22 18:27	10mL/10mL	10mL/10mL	1.00

Batch: 22E0714

A2E0301-53	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-54	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-55	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-56	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-57	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-58	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-59	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-60	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-61	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-62	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-63	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-64	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-65	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-66	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-67	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-68	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-69	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00

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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 98685Project: **Drinking Water - 2022**Project Number: **Robert Gray Elementary**Project Manager: **Thomas Nadermann****Report ID:****A2E0301 - 05 25 22 1720****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
A2E0301-70	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-71	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
A2E0301-72	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 13:44	10mL/10mL	10mL/10mL	1.00
Batch: 22E0720							
A2E0301-73	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-74	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-75	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-76	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-77	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-78	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-79	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-80	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-81	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-82	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-83	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-84	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-85	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00
A2E0301-86	Drinking Water	EPA 200.8	05/03/22 00:00	05/18/22 15:12	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

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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 98685

Project: Drinking Water - 2022

Project Number: Robert Gray Elementary
Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

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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Darrell Auvil, Client Services Manager



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Project Number: **Robert Gray Elementary**
Project Manager: **Thomas Nadermann**

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A2E0301 - 05 25 22 1720

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: **Robert Gray Elementary**
Project Manager: **Thomas Nadermann**

Report ID:

A2E0301 - 05 25 22 1720

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: **Robert Gray Elementary**

Project Manager: **Thomas Nadermann**

Report ID:

A2E0301 - 05 25 22 1720

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.

Apex Laboratories

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Darrell Auvil, Client Services Manager

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

Chain of Custody

Field Sampling Log

Sterling Technologies, LLC A2E0301

 Providing technical consulting support to the
 environmental and manufacturing industries

 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

 Robert Gray Elementary
 4622 Ohio St., Longview, WA
 May 3, 2022
 T. Nadermann

Turnaround Time:

Normal:

Other:

Pg 1 of 7

Sample ID	Location/Description	Analysis	Comments
RG-104-F	Class Am - 104. Faucet	Pb	
RG-104-DW	" - 104. Water Fountain	Pb	
RG-106-F	" - 106. Faucet	Pb	
RG-106-DW	" - 106. Water Fountain	Pb	
RG-107-DW	" - 107. "	Pb	
RG-107-F	" - 107. Faucet	Pb	
RG-108-F	" - 108. "	Pb	
RG-108-DW	" - 108. Water Fountain	Pb	
RG-109-DW	" - 109. "	Pb	
RG-109-F	" - 109. Faucet	Pb	
RG-113-F	" - 113. "	Pb	
RG-113-DW	" - 113. Water Fountain	Pb	

Sampled by:

 T. Nadermann
 E. Wilson

Date:

May 6, 2022

Received by: Diego Silver Garcia 5-6-22 1615

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

 Sterling Technologies, LLC A2E0301

 Providing technical consulting support to the
 environmental and manufacturing industries

 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

pg 2 of 7

Turnaround Time:

 Normal: X

Other:

Chain of Custody

Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Robert Gray Elementary
4622 Ohio St., Longview, WA
May 3, 2022
T. Nadermann

Sample ID	Location/Description	Analysis	Comments
RG-115-F	Class - 115 - Faucet	Pb	
RG-115-DW	" - 115 - Water Fountain	Pb	
RG-119-DW	" - 119 - "	Pb	
RG-119-F	" - 119 - Faucet	Pb	
RG-120-F	" - 120 - "	Pb	
RG-120-DF	" - 120 - Water Fountain	Pb	
RG-121-DF	" - 121 - Water Fountain	Pb	
RG-121-F	" - 121 - Faucet	Pb	
RG-122-F	" - 122 - "	Pb	
RG-124-F	" - 124 - "	Pb	
RG-124-DF	" - 124 - Water Fountain	Pb	
RG-126-DF	" - 126 - "	Pb	
RG-126-F	" - 126 - Faucet	Pb	

Sampled by:

Date:

T. Nadermann
E. Wilson
May 6, 2022
Diego Salas 5-6-22 1615

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

A2E0301

Sterling Technologies, LLC

 Providing technical consulting support to the
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 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Pg 3 of 7

Turnaround Time:

 Normal: ☒

Other:

Chain of Custody

Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Robert Gray Elementary
4622 Ohio St., Longview, WA
May 3, 2022
T. Nadermann

Sample ID	Location/Description	Analysis	Comments
RG-128-F	Cross - 128. Faucet	Pb	
RG-128-DF	" - 128. Water	Pb	
RG-207-DF	" - 207. Fountain	Pb	
RG-207-F	" - 207. " "	Pb	
RG-207-F	" - 207. Faucet	Pb	
RG-208-SF	" - 208. Sink	Pb	
RG-208-SDW	" - 208. Sink. Water	Pb	
RG-208-RF	" - 208. Right. Fountain	Pb	
RG-208-LF	" - 208. Left. " "	Pb	
RG-211-F	" - 211. Faucet	Pb	
RG-211-DF	" - 211. Water	Pb	
RG-213-DF	" - 213. Fountain	Pb	
RG-213-F	" - 213. " "	Pb	
RG-213-F	" - 213. Faucet	Pb	

 Date: May 6, 2022

T. Nadermann

E. Wilson

Sampled by:

Dr. Wilson
Dr. Wilson
1615 5-6-22

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

Chain of Custody Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Robert Gray Elementary
4622 Ohio St., Longview, WA
May 3 2022
T. Nadermann

Sterling Technologies, LLC

 Providing technical consulting support to the
 environmental and manufacturing industries

 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Pg 4 of 7

Turnaround Time:

 Normal: ☒

Other:

Sample ID	Location/Description	Analysis	Comments
RG-217-F	Cross, 217. Faucet	Pb	
RG-217-DF	" 217. Water Fountain	Pb	
RG-218-F	" 218. Faucet	Pb	
RG-218-DF	" 218. Water Fountain	Pb	
RG-219-DF	" 219. "	Pb	
RG-219-F	" 219. Faucet	Pb	
RG-220-F	" 220. "	Pb	
RG-220-DW	" 220. Water Fountain	Pb	
RG-222-DW	" 222. "	Pb	
RG-222-F	" 222. Faucet	Pb	
RG-224-F	" 224. "	Pb	
RG-224-DW	" 224. Water Fountain	Pb	

Sampled by:

T. Nadermann

E. Wilson

 Date: May 6, 2022

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

A2E0301 - 05 25 22 1720

Chain of Custody

Field Sampling Log

Sterling Technologies, LLC

 Providing technical consulting support to the
 environmental and manufacturing industries

 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

Robert Gray Elementary
4622 Ohio St., Longview, WA
May 3, 2022
T. Nadermann

Turnaround Time:

Normal:

Other:

Sample ID	Location/Description	Analysis	Comments
RG-M-F	Musical Rm. Faucet	Pb	
RG-G-DW	Gym Water Fountain	Pb	
RG-K-SE-F	Kitchen SE Faucet	Pb	
RG-K-NW-F	" - NW Faucet	Pb	
RG-N-F	Nurses Office Faucet	Pb	
RG-N-RR-F	" - Rest. Room Faucet	Pb	
RG-L-F	Library Faucet	Pb	
RG-S-F	Sensory Rm. Faucet	Pb	
RG-S-RR-F	" - Rest. Room Faucet	Pb	
RG-ST-F	Staff Room Faucet	Pb	
RG-LDP-F	Laundry - Rest. Room Faucet	Pb	
RG-AD-RAL-F	Admin. Rest. Room Left Faucet	Pb	
RG-AD-RR-RL	" " - Right " "	Pb	

Sampled by:

T. Nadermann
E. Wilson

Date:

May 6, 2022

DRG Shaw 1615 5-6-22

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

 Project: Drinking Water - 2022

 Project Number: Robert Gray Elementary

 Project Manager: Thomas Nadermann

Report ID:

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Chain of Custody

Field Sampling Log

Sterling Technologies, LLC A2E0301

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 317 NE 144th Street Vancouver, WA 98685
 360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

 Robert Gray Elementary
 4622 Ohio St., Longview, WA
 May 3, 2022
 T. Nadermann

Turnaround Time:

 Normal: ☒

Other:

Sample ID	Location/Description	Analysis	Comments
RG-110-GRR-R	Girls Restroom - 110 - Right	Pb	
RG-110-GRR-L	" - " - Left	Pb	
RG-113-BRR-R	Boys Restroom - 113 - Right	Pb	
RG-113-BRR-L	" - " - Left	Pb	
RG-H-DF-R	Hall Fountain - Right	Pb	
RG-H-DF-L	" - " - Left	Pb	
RG-124-GRR-R	Girls Restroom - 124 - Right	Pb	
RG-124-GRR-L	" - " - Left	Pb	
RG-BRR-119-R	Boys Restroom - 119 - Right	Pb	
RG-BRR-119-L	" - " - Left	Pb	
~~RG-BRR~~	~~" - " - Left~~	~~Pb~~	
RG-202-BRR-R	Boys Restroom - 202 - Right	Pb	
RG-202-BRR-L	" - " - Left	Pb	

Sampled by:

 T. Nadermann
 E. Wilson

Date:

May 6, 2022

Diego Salazar 1615 56-22

Sterling Technologies LLC

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Chain of Custody Field Sampling Log

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 360.576.6331

Pg 7 of 7

Turnaround Time:

 Normal: ☒

Other:

Robert Gray Elementary

4622 Ohio St., Longview, WA

May 3, 2022

T. Nadermann

Project Name:

Site Location:

Date:

Project Contact:

Sample ID	Location/Description	Analysis	Comments
RG-ACF-F	Admin. Center Faucet	Pb	
RG-NE-SRR-F	NE Staff Restrm. Faucet	Pb	
RG-GRR-E-F-W	Girls Restrm. East - West	Pb	
RG-GRR-E-F-E	" " East - East	Pb	
RG-BRR-SW-F-E	Boys Restrm. SW - East	Pb	
RG-BRR-SW-F-W	" " SW - West	Pb	
RG-GRR-SW-F-E	Girls Restrm. SW - East	Pb	
RG-GRR-SW-F-W	" " SW - West	Pb	
RG-BRR-W-F-E	Boys Restrm. West - East	Pb	
RG-BRR-W-F-W	" " West - West	Pb	
RG-GRR-F-E	Girls Restrm. East	Pb	
RG-GRR-F-W	" " West	Pb	

Sampled by:

 T. Nadermann
 E. Wilson

Date:

May 6, 2022

Diego S. Lopez 5-6-22 1615



ANALYTICAL REPORT

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Report ID:

A2E0301 - 05 25 22 1720

APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies, LLC Element WO#: A2E0301Project/Project #: Robert Gray Elementary DJS 5-6-22

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 @ 1619 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>19.2</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? (Y/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 @ 1142 By: DJSAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☒ No ☐ Comments: No Date and Time on containers.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:

Labeled by:

DJS

Witness:

[Signature]

Cooler Inspected by:

DJS

Apex Laboratories

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[Signature]

Darrell Auvil, Client Services Manager

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