

Limited Lead in Drinking Water Assessment

Longview Public Schools Longview, Washington Columbia Valley Gardens Elementary School



Assessment Date(s): February 21, 2022

Report Date: March 16, 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 Columbia Valley Gardens Elementary School, Longview School District, located at 2644 30th 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 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 may 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 system (schools in this case) must provide individual lead tap results to people who receive water from 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 73 drinking water sources at the school.

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

9 samples were 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-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

Item	Sample ID.	Location	Result (µ/L)
1	CVG-1-F	Classroom #1, Sink Faucet	4.18
2	CVG-1-WF	Classroom #1, Drinking Fountain	1.48
3	CVG-2-F	Classroom #2, Sink Faucet	3.31
4	CVG-2-WF	Classroom #2, Drinking Fountain	1.92
5	CVG-3-F	Classroom #3, Sink Faucet	8.72
6	CVG-3-DW	Classroom #3, Drinking Fountain	3.63
7	CVG-4-F	Classroom #4, Sink Faucet	7.79
8	CVG-4-DW	Classroom #4, Drinking Fountain	2.86
9	CVG-5-F	Classroom #5, Sink Faucet	9.13
10	CVG-5-DW	Classroom #5, Drinking Fountain	2.43
11	CVG-6-F	Classroom #6, Sink Faucet	2.87
12	CVG-6-DW	Classroom #6, Drinking Fountain	3.88
13	CVG-7-F	Classroom #7, Sink Faucet	0.937
14	CVG-7-WF	Classroom #7, Drinking Fountain	12.3
15	CVG-8-F	Classroom #8, Sink Faucet	1.51
16	CVG-8-DW	Classroom #8, Drinking Fountain	15.1
17	CVG-9-F	Classroom #9, Sink Faucet	1.34
18	CVG-9-F	Classroom #9, Drinking Fountain	4.22
19	CVG-9-S-F	Classroom #9, Sink Faucet, South	1.00
20	CVG-9-CL-F	Classroom #9, Sink Faucet, Center Left	19.4
21	CVG-9-N-F	Classroom #9, Sink Faucet, North	1.16
22	CVG-10-F	Classroom # 10, Sink Faucet	1.81
23	CVG-10-WF	Classroom #10, Drinking Fountain	0.779
24	CVG-11-F	Classroom #11, Sink Faucet	2.45
25	CVG-11-DW	Classroom #11, Drinking Fountain	2.05
26	CVG-11-B-F	Classroom #11, Boys Restroom, Sink Faucet	1.74
27	CVG-11-G-F	Classroom #11, Girls Restroom, Sink Faucet	2.32
28	CVG-12-F	Classroom #12, Sink Faucet	2.96
29	CVG-12-DW	Classroom #12, Drinking Fountain	4.43
30	CVG-14-F	Classroom #14, Sink Faucet	29.0
31	CVG-14-F	Classroom #14, Sink Faucet	5.05
32	CVG-16-F	Classroom #16, Sink Faucet	1.93

ND = Non-Detect

Analytical Results continued on the next page...



Analytical Results: Lead-in-Drinking Water (continued)

Item	Sample ID.	Location	Result (µ/L)
33	CVG-16-WF	Classroom #16, Drinking Fountain	5.26
34	CVG-18-F	Classroom #18, Sink Faucet	4.86
35	CVG-18-DW	Classroom #18, Drinking Fountain	2.07
36	CVG-19-F	Classroom #19, Sink Faucet	9.16
37	CVG-19-DW	Classroom #19, Drinking Fountain	9.89
38	CVG-20-F	Classroom #20, Sink Faucet	7.70
39	CVG-20-DW	Classroom #20, Drinking Fountain	3.02
40	CVG-21-F	Classroom #21, Sink Faucet	4.99
41	CVG-21-DW	Classroom #21, Drinking Fountain	1.98
42	CVG-22-F	Classroom # 22, Sink Faucet	2.37
43	CVG-22-DW	Classroom #22, Drinking Fountain	0.930
44	CVG-23-F	Classroom #23, Sink Faucet	4.61
45	CVG-23-F	Classroom #23, Drinking Fountain	2.73
46	CVG-K-F-1	Kitchen, Sink Faucet #1	2.79
47	CVG-K-F-2	Kitchen, Sink Faucet #2	45.2
48	CVG-K-F-3	Kitchen, Wash Basin Faucet	24.7
49	CVG-L-F	Library, Sink Faucet	21.9
50	CVG-L-WF	Library, Drinking Fountain	8.12
51	CVG-MF-F	Men's Faculty Restroom, Sink Faucet	8.92
52	CVG-WF-F	Women's Faculty Restroom, Sink Faucet	1.85
53	CVG-H-F	Health Area, Sink Faucet	2.56
54	CVG-FL-F	Faculty Lounge, Sink Faucet	7.22
55	CVG-WR-F	Faculty Work Room, Sink Faucet	97.4
56	CVG-G-B-F1	Gym-Boys Restroom, Sink Faucet #1	2.23
57	CVG-G-B-F2	Gym-Boys Restroom, Sink Faucet #2	2.76
58	CVG-G-G-F1	Gym-Boys Restroom, Sink Faucet #1	1.49
59	CVG-G-G-F2	Gym-Boys Restroom, Sink Faucet #2	2.07
60	CVG-G-WF	Gym, Drinking Fountain	4.67
61	CVG-EHB-F1	East Hall, Boys Restroom, Sink Faucet #1	2.92
62	CVG-EHB-F2	East Hall, Boys Restroom, Sink Faucet #2	1.51
63	CVG-EHG-F1	East Hall, Girls Restroom, Sink Faucet #1	1.04
64	CVG-EHG-F2	East Hall, Girls Restroom, Sink Faucet #2	4.13
65	CVG-EHG-F3	East Hall, Girls Restroom, Sink Faucet #3	31.5

ND = Non-Detect

Analytical Results continued on the next page...



Analytical Results: Lead-in-Drinking Water (continued)

Item	Sample ID.	Location	Result (µ/L)
66	CVG-WH-BF1	West Hall, Boys Restroom, Sink Faucet #1	2.78
67	CVG-WH-B21	West Hall, Boys Restroom, Sink Faucet #2	1.73
68	CVG-WH-BF3	West Hall, Boys Restroom, Sink Faucet #3	21.7
69	CVG-WH-GF1	West Hall, Girls Restroom, Sink Faucet #1	2.16
70	CVG-WH-GF2	West Hall, Girls Restroom, Sink Faucet #2	2.47
71	CVG-WH-GF3	West Hall, Girls Restroom, Sink Faucet #3	13.2
72	CVG-H-7-DW	Hall by Classroom #7, Drinking Fountain	0.577
73	CVG-H-RR-F	Hall by Restroom, Sink Faucet	5.71

ND = Non-Detect

As highlighted () in the above table, the lab results for 9 of the 73 drinking water samples collected were found to be at or above the 15 ppb action level for lead-in-drinking water. The remaining 64 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

Nine locations were noted to have elevated lead-in-drinking water:

- Classroom #8, Drinking Fountain
- Classroom #9, Sink Faucet, Center Left
- Classroom #14, Sink Faucet
- Kitchen, Sink Faucet #2
- Kitchen, Wash Basin Faucet
- Library, Sink Faucet
- Faculty Work Room, Sink Faucet
- East Hall, Girls Restroom, Sink Faucet #3
- West Hall, Boys Restroom, Sink Faucet #3

No elevated lead-in-drinking water levels were noted in the other sixty-four locations sampled, and the results for those locations were below the lead-in-drinking water EPA standard under the Safe Drinking Water Act of 15 parts per billion. Forty-five drinking water locations did have residual lead levels above a background lead level: 2.0 ppb.

It is our 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 Columbia Valley Gardens Elementary School plumbing systems (built in 1925, 1982, additions: 1938, 1948, 1963, 1970, renovations: 1950, 1976), and the residual levels of lead noted in the drinking water sources throughout, Sterling recommends that the district



consider replacement of all the water fountains at the property 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.

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

DRAFT



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

DRAFT



A2B0912Apex Labs Cooler Receipt Summary ReportSterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

Apex PM: Darrell Auvil (DAuvil@apex-labs.com) (Phone: 503-718-2323)

One Cooler received On Ice at 11.4 deg C: (Temperature OK)

Samples:

A2B0912-01	Drinking Water	<u>CVG-1-F</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-02	Drinking Water	<u>CVG-1-WF</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-03	Drinking Water	<u>CVG-2-F</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-04	Drinking Water	<u>CVG-2-WF</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-05	Drinking Water	<u>CVG-3-F</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-06	Drinking Water	<u>CVG-3-DW</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

A2B0912-07	Drinking Water	<u>CVG-4-F</u>	02/21/22 00:00
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Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-08		Drinking Water	CVG-4-DW		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-09		Drinking Water	CVG-5-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-10		Drinking Water	CVG-5-DW		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-11		Drinking Water	CVG-6-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-12		Drinking Water	CVG-6-DW		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-13		Drinking Water	CVG-7-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-14		Drinking Water	CVG-7-WF		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-15		Drinking Water	CVG-8-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-16		Drinking Water	CVG-8-DW		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-17		Drinking Water	CVG-9-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-18		Drinking Water	CVG-9-WF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-19		Drinking Water	CVG-9-SF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-20		Drinking Water	CVG-9-CL-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-21		Drinking Water	CVG-9-N-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-22		Drinking Water	CVG-10-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-23		Drinking Water	CVG-10-WF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-24		Drinking Water	CVG-11-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-25		Drinking Water	CVG-11-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-26		Drinking Water	CVG-11-BF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-27		Drinking Water	CVG-11-G-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-28		Drinking Water	CVG-12-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-29		Drinking Water	CVG-12-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-30		Drinking Water	CVG-14-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-31		Drinking Water	CVG-14-WF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-32		Drinking Water	CVG-16-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-33		Drinking Water	CVG-16-WF			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-34		Drinking Water	CVG-18-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-35		Drinking Water	CVG-18-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-36		Drinking Water	CVG-19-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-37		Drinking Water	CVG-19-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-38		Drinking Water	CVG-20-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-39		Drinking Water	CVG-20-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-40		Drinking Water	CVG-21-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-41		Drinking Water	CVG-21-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-42		Drinking Water	CVG-22-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-43		Drinking Water	CVG-22-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-44		Drinking Water	CVG-23-F			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-45		Drinking Water	CVG-23-DW			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-46		Drinking Water	CVG-K-F-1			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022
A2B0912-47		Drinking Water	CVG-K-F-2			02/21/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-48		Drinking Water		CVG-K-F-3		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-49		Drinking Water		CVG-L-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-50		Drinking Water		CVG-L-WF		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-51		Drinking Water		CVG-MF-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-52		Drinking Water		CVG-WF-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-53		Drinking Water		CVG-H-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-54		Drinking Water		CVG-FL-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-55		Drinking Water		CVG-WR-F		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-56		Drinking Water		CVG-G-B-F1		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-57		Drinking Water		CVG-G-B-F2		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-58		Drinking Water		CVG-G-G-F1		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-59		Drinking Water		CVG-G-G-F2		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-60		Drinking Water		CVG-G-WF		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-61		Drinking Water		CVG-EHB-F1		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-62		Drinking Water		CVG-EHB-F2		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-63		Drinking Water		CVG-EHG-F1		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-64		Drinking Water		CVG-EHG-F2		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-65		Drinking Water		CVG-EHG-F3		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-66		Drinking Water		CVG-WH-BF1		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-67		Drinking Water		CVG-WH-BF2		02/21/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	

Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)

Project: Drinking Water - 2022

Project #: Columbia Valley Gardens Elementary

Received: 02/23/22 11:22

A2B0912

A2B0912-68	Drinking Water	CVG-WH-BF3	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-69	Drinking Water	CVG-WH-GF1	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-70	Drinking Water	CVG-WH-GF2	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-71	Drinking Water	CVG-WH-GF3	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	
A2B0912-72	Drinking Water	CVG-H-7-DW	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	

Apex Labs Cooler Receipt Summary Report

A2B0912-73	Drinking Water	CVG-H-RR-F	02/21/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/20/2022	

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

AK00412
A200912
603/1/22

Project Name:

Site Location:

Date:

Project Contact:

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

pg 1 of 6

Turnaround Time:

Normal: ☒

Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-1-F	Class - 1 - Sink Faucet	Lead	EPA Method 200.8
" - 1-WF	" - 1 - Water Fountain		
" - 2-F	" - 2 - Sink Faucet		
" - 2-WF	" - 2 - Water Fountain		
" - 3-F	" - 3 - Sink Faucet		
" - 3-DW	" - 3 - Water Fountain		
" - 4-F	" - 4 - Sink Faucet		
" - 4-DW	" - 4 - Water Fountain		
" - 5-F	" - 5 - Sink Faucet		
" - 5-DW	" - 5 - Water Fountain		
" - 6-F	" - 6 - Sink Faucet		
" - 6-DW	" - 6 - Water Fountain		
" - 7-F	" - 7 - Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

Michael Kowalik 7-23-22

Chain of Custody

Field Sampling Log



Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries317 NE 144th Street Vancouver, WA 98685
360.576.6331A160917
A2B0912
03/1/22

Project Name:

Test Drinking Water for Lead

Site Location:

Columbia Valley Gardens Elementary

Date:

Feb 21, 2022

Project Contact:

T. Nadermann

Pg 2 of 6

Turnaround Time:

Normal: X

Other:

Sample ID	Location/Description	Analysis	Comments
CVG-7-WF	Class - 7 - Water Fountain	Lead	EPA Method 200.8
" - 8 - F	" - 8 - Sink Faucet		
" - 8 - DW	" - 8 - Water Fountain		
" - 9 - F	" - 9 - Sink Faucet		
" - 9 - WF	" - 9 - Water Fountain		
" - 9 - S - F	" - 9 - S - Sink Faucet		
" - 9 - CL - F	" - 9 - CL - "		
" - 9 - N - F	" - 9 - N - "		
" - 10 - F	" - 10 - Sink Faucet		
" - 10 - WF	" - 10 - Water Fountain		
" - 11 - F	" - 11 - Sink Faucet		
" - 11 - DW	" - 11 - Water Fountain		
" - 11 - BF	" - 11 - Boys Restroom - Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

M. Koehnke 2-23-22

Chain of Custody

Field Sampling Log



Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries317 NE 144th Street Vancouver, WA 98685
360.576.6331
 ATT0912
 A2B0912
 3/1/22

Project Name:

Test Drinking Water for Lead

Site Location:

Columbia Valley Gardens Elementary

Date:

Feb 21, 2022

Project Contact:

T. Nadermann

Pg 3 of 6

Turnaround Time:

Normal: ☒Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-11-G-F	Class - 11 - Girls Sink	Lead	EPA Method 200.8
CVG-12-F	" - 12 - Sink Faucet		
" - 12 - DW	" - 12 - Water Fountain		
" - 14-F	" - 14 - Sink Faucet		
" - 14-WF	" - 14 - Water Fountain		
" - 16-F	" - 16 - Sink Faucet		
" - 16-WF	" - 16 - Water Fountain		
" - 18-F	" - 18 - Sink Faucet		
" - 18-DW	" - 18 - Water Fountain		
" - 19-F	" - 19 - Sink Faucet		
" - 19-DW	" - 19 - Water Fountain		
" - 20-F	" - 20 - Sink Faucet		
" - 20-DW	" - 20 - Water Fountain		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

M. Kachish
2-23-22

Chain of Custody

Field Sampling Log



Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries317 NE 144th Street Vancouver, WA 98685
360.576.6331

Project Name:

Test Drinking Water for Lead

Site Location:

Columbia Valley Gardens Elementary

Date:

Feb 21, 2022

Project Contact:

T. Neudermann

Turnaround Time:

Normal: X

Other: _____

Pg 4 of 6

Sample ID	Location/Description	Analysis	Comments
CVG-21-F	Class Rm - 21 - Sink Faucet	Lead	EPA Method 200.8
CVG-21-DW	" - 21 - Water Fountain		
CVG-22-F	" - 22 - Sink Faucet		
" - 22-DW	" - 22 - Water Fountain		
" - 23-F	" - 23 - Sink Faucet		
" - 23-DW	" - 23 - Sink Faucet		
" - K-F-1	Kitchen - Sink Faucet - #1		
" - K-F-2	" - " - #2		
" - K-F-3	" - Wash - Basin - Faucet		
" - L-F	Library - Sink Faucet		
" - L-WF	" - Water Fountain		
" - MF-F	Mens Faculty - Sink Faucet		
" - WF-F	Womens Faculty - " Rest Rm		

Sampled by:

T. Neudermann
E. Wilson

Date:

Feb 21, 2022

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:

Test Drinking Water for Lead
Columbia Valley Gardens Elementary
Feb 21 2022
T. Nadermann

Pg 5 of 6

Turnaround Time:

Normal: ☒Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-H-F	Health - Sink Faucet	Lead	EPA Method 200.8
CVG-FL-F	Faculty - " "		
CVG-WR-F	Faculty - " "		
CVG-G-B-F1	Gym - RestRm - Sink Faucet - #1		
CVG-G-B-F2	" - " - " - #2		
" - G-G-F1	" - Girls RestRm - " - #1		
" - G-G-F2	" - " - " - #2		
" - G-WF	" - Water Fountain		
" - EHB-F1	East Hall - Boys RestRm - Sink Faucet - #1		
" - EHB-F2	" - " - " - #2		
" - EHG-F1	" - Girls RestRm - " - #1		
" - EHG-F2	" - " - " - #2		
" - EHG-F3	" - " - " - #3		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

W. Kurbach
2/27/22

Apex Labs Cooler Receipt Summary Report

APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies LLC Element WO#: A2 B0912

Project/Project #: Test Drinking Water for lead- Columbian Valley Gardens Elementary

Delivery Info:

Date/time received: 2-23-22 @ 1122 By: MM

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

Cooler Inspection Date/time inspected: 2-23-22 @ 1250 By: MM

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)	<u>11.4</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>N/A</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking Waters/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: 2/23/21 @ 1116 By: JAM

All samples intact? Yes ☒ No ☐ Comments: _____

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Containers Marked as CVG-14-F + CVG-14-WF, COC reads CVG-14-F + CVG-14-WF

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: CVG-14-F, received pH of 7

Additional information:

Labeled by:

JAM

Witness:

W

Cooler Inspected by:

JAM



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, March 16, 2022

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

RE: A2B0912 - Drinking Water - 2022 - Columbia Valley Gardens 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 A2B0912, 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

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 98685Project: **Drinking Water - 2022**Project Number: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann****Report ID:****A2B0912 - 03 16 22 1451****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CVG-1-F	A2B0912-01	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-1-WF	A2B0912-02	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-2-F	A2B0912-03	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-2-WF	A2B0912-04	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-3-F	A2B0912-05	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-3-DW	A2B0912-06	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-4-F	A2B0912-07	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-4-DW	A2B0912-08	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-5-F	A2B0912-09	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-5-DW	A2B0912-10	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-6-F	A2B0912-11	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-6-DW	A2B0912-12	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-7-F	A2B0912-13	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-7-WF	A2B0912-14	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-8-F	A2B0912-15	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-8-DW	A2B0912-16	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-9-F	A2B0912-17	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-9-WF	A2B0912-18	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-9-SF	A2B0912-19	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-9-CL-F	A2B0912-20	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-9-N-F	A2B0912-21	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-10-F	A2B0912-22	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-10-WF	A2B0912-23	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-11-F	A2B0912-24	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-11-DW	A2B0912-25	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-11-BF	A2B0912-26	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-11-G-F	A2B0912-27	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-12-F	A2B0912-28	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-12-DW	A2B0912-29	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-14-F	A2B0912-30	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-14-WF	A2B0912-31	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-16-F	A2B0912-32	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-16-WF	A2B0912-33	Drinking Water	02/21/22 00:00	02/23/22 11:22

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 98685Project: **Drinking Water - 2022**Project Number: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann****Report ID:****A2B0912 - 03 16 22 1451****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CVG-18-F	A2B0912-34	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-18-DW	A2B0912-35	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-19-F	A2B0912-36	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-19-DW	A2B0912-37	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-20-F	A2B0912-38	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-20-DW	A2B0912-39	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-21-F	A2B0912-40	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-21-DW	A2B0912-41	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-22-F	A2B0912-42	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-22-DW	A2B0912-43	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-23-F	A2B0912-44	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-23-DW	A2B0912-45	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-K-F-1	A2B0912-46	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-K-F-2	A2B0912-47	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-K-F-3	A2B0912-48	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-L-F	A2B0912-49	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-L-WF	A2B0912-50	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-MF-F	A2B0912-51	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WF-F	A2B0912-52	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-H-F	A2B0912-53	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-FL-F	A2B0912-54	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WR-F	A2B0912-55	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-G-B-F1	A2B0912-56	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-G-B-F2	A2B0912-57	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-G-G-F1	A2B0912-58	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-G-G-F2	A2B0912-59	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-G-WF	A2B0912-60	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-EHB-F1	A2B0912-61	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-EHB-F2	A2B0912-62	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-EHG-F1	A2B0912-63	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-EHG-F2	A2B0912-64	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-EHG-F3	A2B0912-65	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WH-BF1	A2B0912-66	Drinking Water	02/21/22 00:00	02/23/22 11:22

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ANALYTICAL REPORT

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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: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0912 - 03 16 22 1451

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CVG-WH-BF2	A2B0912-67	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WH-BF3	A2B0912-68	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WH-GF1	A2B0912-69	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WH-GF2	A2B0912-70	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-WH-GF3	A2B0912-71	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-H-7-DW	A2B0912-72	Drinking Water	02/21/22 00:00	02/23/22 11:22
CVG-H-RR-F	A2B0912-73	Drinking Water	02/21/22 00:00	02/23/22 11:22

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Project Manager: Thomas Nadermann

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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
CVG-1-F (A2B0912-01) Matrix: Drinking Water								
Batch: 22C0104								
Lead	4.18	---	0.200	ug/L	1	03/04/22 03:01	EPA 200.8	
CVG-1-WF (A2B0912-02) Matrix: Drinking Water								
Batch: 22C0104								
Lead	1.48	---	0.200	ug/L	1	03/04/22 03:05	EPA 200.8	
CVG-2-F (A2B0912-03) Matrix: Drinking Water								
Batch: 22C0104								
Lead	3.31	---	0.200	ug/L	1	03/04/22 03:17	EPA 200.8	
CVG-2-WF (A2B0912-04) Matrix: Drinking Water								
Batch: 22C0104								
Lead	1.92	---	0.200	ug/L	1	03/04/22 03:21	EPA 200.8	
CVG-3-F (A2B0912-05) Matrix: Drinking Water								
Batch: 22C0104								
Lead	8.72	---	0.200	ug/L	1	03/04/22 03:25	EPA 200.8	
CVG-3-DW (A2B0912-06) Matrix: Drinking Water								
Batch: 22C0104								
Lead	3.63	---	0.200	ug/L	1	03/04/22 03:29	EPA 200.8	
CVG-4-F (A2B0912-07) Matrix: Drinking Water								
Batch: 22C0104								
Lead	7.79	---	0.200	ug/L	1	03/04/22 03:33	EPA 200.8	
CVG-4-DW (A2B0912-08) Matrix: Drinking Water								
Batch: 22C0104								
Lead	2.86	---	0.200	ug/L	1	03/04/22 03:37	EPA 200.8	
CVG-5-F (A2B0912-09) Matrix: Drinking Water								
Batch: 22C0104								
Lead	9.13	---	0.200	ug/L	1	03/04/22 03:41	EPA 200.8	
CVG-5-DW (A2B0912-10) Matrix: Drinking Water								
Batch: 22C0104								

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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
CVG-5-DW (A2B0912-10)				Matrix: Drinking Water				
Lead	2.43	---	0.200	ug/L	1	03/04/22 03:46	EPA 200.8	
CVG-6-F (A2B0912-11)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	2.87	---	0.200	ug/L	1	03/04/22 03:50	EPA 200.8	
CVG-6-DW (A2B0912-12)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	3.88	---	0.200	ug/L	1	03/04/22 03:54	EPA 200.8	
CVG-7-F (A2B0912-13)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	0.937	---	0.200	ug/L	1	03/04/22 16:46	EPA 200.8	
CVG-7-WF (A2B0912-14)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	12.3	---	0.200	ug/L	1	03/04/22 16:50	EPA 200.8	
CVG-8-F (A2B0912-15)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	1.51	---	0.200	ug/L	1	03/04/22 16:54	EPA 200.8	
CVG-8-DW (A2B0912-16)				Matrix: Drinking Water				
Batch: 22C0104								
Lead	15.1	---	0.200	ug/L	1	03/04/22 16:58	EPA 200.8	
CVG-9-F (A2B0912-17)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	1.34	---	0.200	ug/L	1	03/04/22 17:14	EPA 200.8	
CVG-9-WF (A2B0912-18)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	4.22	---	0.200	ug/L	1	03/04/22 17:39	EPA 200.8	
CVG-9-SF (A2B0912-19)				Matrix: Drinking Water				
Batch: 22C0165								

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Project Manager: Thomas Nadermann

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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
CVG-9-SF (A2B0912-19)				Matrix: Drinking Water				
Lead	1.00	---	0.200	ug/L	1	03/04/22 17:43	EPA 200.8	
CVG-9-CL-F (A2B0912-20)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	19.4	---	0.200	ug/L	1	03/04/22 17:46	EPA 200.8	
CVG-9-N-F (A2B0912-21)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	1.16	---	0.200	ug/L	1	03/04/22 17:51	EPA 200.8	
CVG-10-F (A2B0912-22)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	1.81	---	0.200	ug/L	1	03/04/22 17:54	EPA 200.8	
CVG-10-WF (A2B0912-23)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	0.779	---	0.200	ug/L	1	03/04/22 17:58	EPA 200.8	
CVG-11-F (A2B0912-24)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	2.45	---	0.200	ug/L	1	03/04/22 18:01	EPA 200.8	
CVG-11-DW (A2B0912-25)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	2.05	---	0.200	ug/L	1	03/04/22 18:05	EPA 200.8	
CVG-11-BF (A2B0912-26)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	1.74	---	0.200	ug/L	1	03/04/22 18:10	EPA 200.8	
CVG-11-G-F (A2B0912-27)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	2.32	---	0.200	ug/L	1	03/04/22 18:14	EPA 200.8	
CVG-12-F (A2B0912-28)				Matrix: Drinking Water				
Batch: 22C0165								

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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
CVG-12-F (A2B0912-28)				Matrix: Drinking Water				
Lead	2.96	---	0.200	ug/L	1	03/04/22 18:26	EPA 200.8	
CVG-12-DW (A2B0912-29)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	4.43	---	0.200	ug/L	1	03/04/22 18:30	EPA 200.8	
CVG-14-F (A2B0912-30)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	29.0	---	0.200	ug/L	1	03/04/22 18:34	EPA 200.8	
CVG-14-WF (A2B0912-31)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	5.05	---	0.200	ug/L	1	03/04/22 18:38	EPA 200.8	
CVG-16-F (A2B0912-32)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	1.93	---	0.200	ug/L	1	03/04/22 18:42	EPA 200.8	
CVG-16-WF (A2B0912-33)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	5.26	---	0.200	ug/L	1	03/04/22 18:46	EPA 200.8	
CVG-18-F (A2B0912-34)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	4.86	---	0.200	ug/L	1	03/04/22 18:50	EPA 200.8	
CVG-18-DW (A2B0912-35)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	2.07	---	0.200	ug/L	1	03/04/22 18:55	EPA 200.8	
CVG-19-F (A2B0912-36)				Matrix: Drinking Water				
Batch: 22C0165								
Lead	9.16	---	0.200	ug/L	1	03/04/22 18:59	EPA 200.8	
CVG-19-DW (A2B0912-37)				Matrix: Drinking Water				
Batch: 22C0166								

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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
CVG-19-DW (A2B0912-37)				Matrix: Drinking Water				
Lead	9.89	---	0.200	ug/L	1	03/04/22 19:22	EPA 200.8	
CVG-20-F (A2B0912-38)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	7.70	---	0.200	ug/L	1	03/04/22 19:35	EPA 200.8	
CVG-20-DW (A2B0912-39)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	3.02	---	0.200	ug/L	1	03/04/22 19:39	EPA 200.8	
CVG-21-F (A2B0912-40)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	4.99	---	0.200	ug/L	1	03/04/22 19:43	EPA 200.8	
CVG-21-DW (A2B0912-41)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	1.98	---	0.200	ug/L	1	03/04/22 19:47	EPA 200.8	
CVG-22-F (A2B0912-42)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	2.37	---	0.200	ug/L	1	03/04/22 19:51	EPA 200.8	
CVG-22-DW (A2B0912-43)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	0.930	---	0.200	ug/L	1	03/04/22 20:03	EPA 200.8	
CVG-23-F (A2B0912-44RE1)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	4.61	---	0.200	ug/L	1	03/07/22 15:20	EPA 200.8	
CVG-23-DW (A2B0912-45)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	2.73	---	0.200	ug/L	1	03/04/22 20:10	EPA 200.8	
CVG-K-F-1 (A2B0912-46RE1)				Matrix: Drinking Water				
Batch: 22C0166								

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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
CVG-K-F-1 (A2B0912-46RE1)				Matrix: Drinking Water				
Lead	2.79	---	0.200	ug/L	1	03/07/22 15:24	EPA 200.8	
CVG-K-F-2 (A2B0912-47)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	45.2	---	0.200	ug/L	1	03/04/22 20:17	EPA 200.8	
CVG-K-F-3 (A2B0912-48)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	24.7	---	0.200	ug/L	1	03/04/22 20:22	EPA 200.8	
CVG-L-F (A2B0912-49)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	21.9	---	0.200	ug/L	1	03/04/22 20:26	EPA 200.8	
CVG-L-WF (A2B0912-50)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	8.12	---	0.200	ug/L	1	03/04/22 20:30	EPA 200.8	
CVG-MF-F (A2B0912-51)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	8.92	---	0.200	ug/L	1	03/04/22 20:34	EPA 200.8	
CVG-WF-F (A2B0912-52)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	1.85	---	0.200	ug/L	1	03/04/22 20:38	EPA 200.8	
CVG-H-F (A2B0912-53)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	2.56	---	0.200	ug/L	1	03/04/22 20:50	EPA 200.8	
CVG-FL-F (A2B0912-54)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	7.22	---	0.200	ug/L	1	03/04/22 20:54	EPA 200.8	
CVG-WR-F (A2B0912-55RE1)				Matrix: Drinking Water				
Batch: 22C0166								

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ANALYTICAL SAMPLE RESULTS

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CVG-WR-F (A2B0912-55RE1)				Matrix: Drinking Water				
Lead	97.4	---	2.00	ug/L	10	03/07/22 15:28	EPA 200.8	
CVG-G-B-F1 (A2B0912-56)				Matrix: Drinking Water				
Batch: 22C0166								
Lead	2.23	---	0.200	ug/L	1	03/04/22 21:03	EPA 200.8	
CVG-G-B-F2 (A2B0912-57)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.76	---	0.200	ug/L	1	03/04/22 21:19	EPA 200.8	
CVG-G-G-F1 (A2B0912-58)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	1.49	---	0.200	ug/L	1	03/04/22 21:39	EPA 200.8	
CVG-G-G-F2 (A2B0912-59)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.07	---	0.200	ug/L	1	03/04/22 21:43	EPA 200.8	
CVG-G-WF (A2B0912-60)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	4.67	---	0.200	ug/L	1	03/04/22 21:47	EPA 200.8	
CVG-EHB-F1 (A2B0912-61)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.92	---	0.200	ug/L	1	03/04/22 21:51	EPA 200.8	
CVG-EHB-F2 (A2B0912-62)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	1.51	---	0.200	ug/L	1	03/04/22 21:56	EPA 200.8	
CVG-EHG-F1 (A2B0912-63)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	1.04	---	0.200	ug/L	1	03/04/22 21:59	EPA 200.8	
CVG-EHG-F2 (A2B0912-64)				Matrix: Drinking Water				
Batch: 22C0185								

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CVG-EHG-F2 (A2B0912-64)				Matrix: Drinking Water				
Lead	4.13	---	0.200	ug/L	1	03/04/22 22:02	EPA 200.8	
CVG-EHG-F3 (A2B0912-65)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	31.5	---	0.200	ug/L	1	03/04/22 22:06	EPA 200.8	
CVG-WH-BF1 (A2B0912-66)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.78	---	0.200	ug/L	1	03/04/22 22:11	EPA 200.8	
CVG-WH-BF2 (A2B0912-67)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	1.73	---	0.200	ug/L	1	03/04/22 22:15	EPA 200.8	
CVG-WH-BF3 (A2B0912-68)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	21.7	---	0.200	ug/L	1	03/04/22 22:27	EPA 200.8	
CVG-WH-GF1 (A2B0912-69)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.16	---	0.200	ug/L	1	03/04/22 22:31	EPA 200.8	
CVG-WH-GF2 (A2B0912-70)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	2.47	---	0.200	ug/L	1	03/04/22 22:35	EPA 200.8	
CVG-WH-GF3 (A2B0912-71)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	13.2	---	0.200	ug/L	1	03/04/22 22:39	EPA 200.8	
CVG-H-7-DW (A2B0912-72)				Matrix: Drinking Water				
Batch: 22C0185								
Lead	0.577	---	0.200	ug/L	1	03/04/22 22:43	EPA 200.8	
CVG-H-RR-F (A2B0912-73)				Matrix: Drinking Water				
Batch: 22C0185								

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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: **Columbia Valley Gardens E**

Project Manager: **Thomas Nadermann**

Report ID:

A2B0912 - 03 16 22 1451

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
CVG-H-RR-F (A2B0912-73)				Matrix: Drinking Water				
Lead	5.71	---	0.200	ug/L	1	03/04/22 22:47	EPA 200.8	

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

Project Number: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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 22C0104 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0104-BLK1)			Prepared: 03/02/22 14:08 Analyzed: 03/04/22 02:32									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0104-BS1)			Prepared: 03/02/22 14:08 Analyzed: 03/04/22 02:35									
EPA 200.8												
Lead	16.4	---	0.201	ug/L	1	15.0	---	110	85-115%	---	---	
Duplicate (22C0104-DUP1)			Prepared: 03/02/22 14:08 Analyzed: 03/04/22 02:43									
QC Source Sample: Non-SDG (A2B0896-01)												
Lead	0.754	---	0.200	ug/L	1	---	0.761	---	---	1	20%	
Matrix Spike (22C0104-MS1)			Prepared: 03/02/22 14:08 Analyzed: 03/04/22 02:46									
QC Source Sample: Non-SDG (A2B0896-01)												
EPA 200.8												
Lead	16.6	---	0.201	ug/L	1	15.0	0.761	105	70-130%	---	---	
Matrix Spike (22C0104-MS2)			Prepared: 03/02/22 14:08 Analyzed: 03/04/22 17:02									
QC Source Sample: CVG-8-DW (A2B0912-16)												
EPA 200.8												
Lead	29.7	---	0.201	ug/L	1	15.0	15.1	98	70-130%	---	---	
Batch 22C0165 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0165-BLK1)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 17:07									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0165-BS1)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 17:10									
EPA 200.8												
Lead	15.3	---	0.201	ug/L	1	15.0	---	102	85-115%	---	---	
Duplicate (22C0165-DUP1)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 17:18									
QC Source Sample: CVG-9-F (A2B0912-17)												

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503-718-2323

ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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 22C0165 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22C0165-DUP1)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 17:18									
<u>QC Source Sample: CVG-9-F (A2B0912-17)</u>												
<u>EPA 200.8</u>												
Lead	1.44	---	0.200	ug/L	1	---	1.34	---	---	7	20%	
Matrix Spike (22C0165-MS1)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 17:23									
<u>QC Source Sample: CVG-9-F (A2B0912-17)</u>												
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	1.34	99	70-130%	---	---	
Matrix Spike (22C0165-MS2)			Prepared: 03/03/22 14:12 Analyzed: 03/04/22 19:03									
<u>QC Source Sample: CVG-19-F (A2B0912-36)</u>												
<u>EPA 200.8</u>												
Lead	22.9	---	0.201	ug/L	1	15.0	9.16	92	70-130%	---	---	

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Vancouver, WA 98685Project: Drinking Water - 2022

Project Number: Columbia Valley Gardens E

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 22C0166 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0166-BLK1)			Prepared: 03/03/22 14:16 Analyzed: 03/04/22 19:15									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0166-BS1)			Prepared: 03/03/22 14:16 Analyzed: 03/04/22 19:18									
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	---	100	85-115%	---	---	
Duplicate (22C0166-DUP1)			Prepared: 03/03/22 14:16 Analyzed: 03/04/22 19:26									
QC Source Sample: CVG-19-DW (A2B0912-37)												
EPA 200.8												
Lead	9.75	---	0.200	ug/L	1	---	9.89	---	---	1	20%	
Matrix Spike (22C0166-MS1)			Prepared: 03/03/22 14:16 Analyzed: 03/04/22 19:31									
QC Source Sample: CVG-19-DW (A2B0912-37)												
EPA 200.8												
Lead	25.9	---	0.201	ug/L	1	15.0	9.89	107	70-130%	---	---	
Matrix Spike (22C0166-MS2)			Prepared: 03/03/22 14:16 Analyzed: 03/04/22 21:07									
QC Source Sample: CVG-G-B-F1 (A2B0912-56)												
EPA 200.8												
Lead	16.8	---	0.201	ug/L	1	15.0	2.23	97	70-130%	---	---	

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Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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 22C0185 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0185-BLK1)			Prepared: 03/04/22 07:29		Analyzed: 03/04/22 21:11							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0185-BS1)			Prepared: 03/04/22 07:29		Analyzed: 03/04/22 21:15							
EPA 200.8												
Lead	14.8	---	0.201	ug/L	1	15.0	---	99	85-115%	---	---	
Duplicate (22C0185-DUP1)			Prepared: 03/04/22 07:29		Analyzed: 03/04/22 21:23							
QC Source Sample: CVG-G-B-F2 (A2B0912-57)												
EPA 200.8												
Lead	2.91	---	0.200	ug/L	1	---	2.76	---	---	5	20%	
Matrix Spike (22C0185-MS1)			Prepared: 03/04/22 07:29		Analyzed: 03/04/22 21:27							
QC Source Sample: CVG-G-B-F2 (A2B0912-57)												
EPA 200.8												
Lead	17.2	---	0.201	ug/L	1	15.0	2.76	96	70-130%	---	---	
Matrix Spike (22C0185-MS2)			Prepared: 03/04/22 07:29		Analyzed: 03/04/22 23:02							
QC Source Sample: Non-SDG (A2B0932-03)												
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	0.320	99	70-130%	---	---	

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317 NE 144th St

Vancouver, WA 98685

Project: **Drinking Water - 2022**Project Number: **Columbia Valley Gardens E**Project Manager: **Thomas Nadermann****Report ID:****A2B0912 - 03 16 22 1451****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: 22C0104							
A2B0912-01	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-02	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-03	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-04	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-05	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-06	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-07	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-08	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-09	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-10	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-11	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-12	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-13	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-14	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-15	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
A2B0912-16	Drinking Water	EPA 200.8	02/21/22 00:00	03/02/22 14:08	10mL/10mL	10mL/10mL	1.00
Batch: 22C0165							
A2B0912-17	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-18	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-19	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-20	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-21	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-22	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-23	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-24	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-25	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-26	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-27	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-28	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-29	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-30	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-31	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-32	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-33	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-34	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
A2B0912-35	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00

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503-718-2323

ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: **Drinking Water - 2022**Project Number: **Columbia Valley Gardens E**Project Manager: **Thomas Nadermann****Report ID:****A2B0912 - 03 16 22 1451****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
A2B0912-36	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:12	10mL/10mL	10mL/10mL	1.00
Batch: 22C0166							
A2B0912-37	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-38	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-39	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-40	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-41	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-42	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-43	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-44RE1	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-45	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-46RE1	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-47	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-48	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-49	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-50	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-51	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-52	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-53	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-54	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-55RE1	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
A2B0912-56	Drinking Water	EPA 200.8	02/21/22 00:00	03/03/22 14:16	10mL/10mL	10mL/10mL	1.00
Batch: 22C0185							
A2B0912-57	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-58	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-59	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-60	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-61	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-62	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-63	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-64	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-65	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-66	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-67	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-68	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-69	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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Sterling Technologies LLC

317 NE 144th St
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Project: **Drinking Water - 2022**

Project Number: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0912 - 03 16 22 1451

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	Default	RL Prep
					Initial/Final	Initial/Final	Factor
A2B0912-70	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-71	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-72	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	10mL/10mL	10mL/10mL	1.00
A2B0912-73	Drinking Water	EPA 200.8	02/21/22 00:00	03/04/22 07:29	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: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

QUALIFIER DEFINITIONS

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

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

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Project Number: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0912 - 03 16 22 1451

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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Project Number: **Columbia Valley Gardens E**
Project Manager: **Thomas Nadermann**

Report ID:

A2B0912 - 03 16 22 1451

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 Number: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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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Sterling Technologies LLC

317 NE 144th St
Vancouver, WA 98685

Project: Drinking Water - 2022Project Number: Columbia Valley Gardens EProject Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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:

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

Turnaround Time:

Normal: ☒Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-1-F	Class - 1 - Sink Faucet	Lead	EPA Method 200.8
" - 1-WF	" - 1 - Water Fountain		
" - 2-F	" - 2 - Sink Faucet		
" - 2-WF	" - 2 - Water Fountain		
" - 3-F	" - 3 - Sink Faucet		
" - 3-DW	" - 3 - Water Fountain		
" - 4-F	" - 4 - Sink Faucet		
" - 4-DW	" - 4 - Water Fountain		
" - 5-F	" - 5 - Sink Faucet		
" - 5-DW	" - 5 - Water Fountain		
" - 6-F	" - 6 - Sink Faucet		
" - 6-DW	" - 6 - Water Fountain		
" - 7-F	" - 7 - Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022
Michael Nadermann 723-22

Apex Laboratories

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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 98685

Project: Drinking Water - 2022Project Number: Columbia Valley Gardens EProject Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

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

A2B0912
A2B0912
03/11/22

Project Name:

Site Location:

Date:

Project Contact:

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

Pg 2 of 6

Turnaround Time:

Normal: ☒Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-7-WF	Class - 7 - Water Fountain	Lead	EPA Method 200.8
" - 8 - F	" - 8 - Sink Faucet		
" - 8 - DW	" - 8 - Water Fountain		
" - 9 - F	" - 9 - Sink Faucet		
" - 9 - WF	" - 9 - Water Fountain		
" - 9 - S - F	" - 9 - S - Sink Faucet		
" - 9 - CL - F	" - 9 - CL - "		
" - 9 - N - F	" - 9 - N - "		
" - 10 - F	" - 10 - Sink Faucet		
" - 10 - WF	" - 10 - Water Fountain		
" - 11 - F	" - 11 - Sink Faucet		
" - 11 - DW	" - 11 - Water Fountain		
" - 11 - BF	" - 11 - Boys - Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

Feb 21, 2022
M. K. Wilson
222022

Apex Laboratories

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Darrell Auvil, Client Services Manager



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503-718-2323

ORELAP ID: OR100062

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Vancouver, WA 98685

Project: Drinking Water - 2022Project Number: Columbia Valley Gardens EProject Manager: Thomas Nadermann

Report ID:

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Chain of Custody

Field Sampling Log

Sterling Technologies, LLC

Providing technical consulting support to the
environmental and manufacturing industries317 NE 144th Street Vancouver, WA 98685
360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead

Columbia Valley Gardens Elementary

Feb 21, 2022

T. Nadermann

Pg 3 of 6

Turnaround Time:

Normal: X

Other: _____

Sample ID	Location/Description	Analysis	Comments
CVG-11-G-F	Class - 11 - Girls Sink	Lead	EPA Method 200.8
CVG-12-F	" - 12 - Sink Faucet		
" - 14-DW	" - 12 - Water Fountain		
" - 14-F	" - 14 - Sink Faucet		
" - 14-WF	" - 14 - Water Fountain		
" - 16-F	" - 16 - Sink Faucet		
" - 16-WF	" - 16 - Water Fountain		
" - 18-F	" - 18 - Sink Faucet		
" - 18-DW	" - 18 - Water Fountain		
" - 19-F	" - 19 - Sink Faucet		
" - 19-DW	" - 19 - Water Fountain		
" - 20-F	" - 20 - Sink Faucet		
" - 20-DW	" - 20 - Water Fountain		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

M. Keshish
2-23-22

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317 NE 144th St

Vancouver, WA 98685

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Report ID:

A2B0912 - 03 16 22 1451

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

A2B0912
A2B0912
@ 3/12/22

Project Name:

Site Location:

Date:

Project Contact:

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

Pg 4 of 6

Turnaround Time:

Normal: X

Other: _____

Sample ID	Location/Description	Analysis	Comments
CVG-21-F	Class - 21 - Sink Faucet	Lead	EPA Method 200.8
CVG-21-DW	" - 21 - Water Fountain		
CVG-22-F	" - 22 - Sink Faucet		
" - 22-DW	" - 22 - Water Fountain		
" - 23-F	" - 23 - Sink Faucet		
" - 23-DW	" - 23 - Sink Faucet		
" - K-F-1	Kitchen - Sink Faucet - #1		
" - K-F-2	" - " - #2		
" - K-F-3	" - Wash Basin - Faucet		
" - L-F	Library - Sink Faucet		
" - L-WF	" - Water Fountain		
" - MF-F	Mens Faculty - Sink Faucet		
" - WF-F	Womens Faculty - Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022



MRK/ebk 22322

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Darrell Auvil, Client Services Manager

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Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Columbia Valley Gardens E

Project Manager: Thomas Nadermann

Report ID:

A2B0912 - 03 16 22 1451

Chain of Custody Field Sampling Log

Handwritten: A1100912
A2B0912
3/1/22

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:

Handwritten: Test Drinking Water for Lead
Columbia Valley Gardens Elementary
Feb 21 2022
T. Nadermann

Handwritten: Pg 5 of 6

Turnaround Time:

Normal: ☒

Other: ☐

Sample ID	Location/Description	Analysis	Comments
CVG-H-F	Health - Sink Faucet	Lead	EPA Method 200.8
CVG-FL-F	Faculty - " "		
CVG-WR-F	Faculty - " "		
CVG-G-B-F1	Gym - RestRm - Sink - #1		
CVG-G-B-F2	" - " - " - #2		
" - G-G-F1	" - Girls - RestRm - " - #1		
" - G-G-F2	" - " - " - " - #2		
" - G-WF	" - Water Fountain		
" - EHB-F1	East Hall - Boys RestRm - Sink - #1		
" - EHB-F2	" - " - " - " - #2		
" - EHG-F1	" - Girls RestRm - " - #1		
" - EHG-F2	" - " - " - " - #2		
" - EHG-F3	" - " - " - " - #3		

Sampled by:

Handwritten: T. Nadermann
E. Wilson

Date:

Handwritten: Feb 21, 2022

Handwritten: 1177

Handwritten: M. K. K. 7.5.22

Apex Laboratories

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Handwritten signature: Darrell Auvil

Darrell Auvil, Client Services Manager



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Chain of Custody

Field Sampling Log


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317 NE 144th Street Vancouver, WA 98685
360.576.6331

A2B0912
6/3/1/22

Project Name:

Site Location:

Date:

Project Contact:

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

Pg 6 of 6

Turnaround Time:

Normal: ☒Other: ☐

Sample ID	Location/Description	Analysis	Comments
CUG-WH-BF1	West Boys - Sink	Lead	EPA Method 200.8
" - WH - BF2	" - " - " - #1		
" - WH - BF3	" - " - " - #2		
" - " - GF1	" - " - " - #3		
" - " - GF2	" - " - " - #1		
" - " - GF3	" - " - " - #2		
" - " - GF3	" - " - " - #3		
" - H-7 - DW	Hallway - 7 - Water Fountain		
" - H-RR-F	Hall - Rest. Sink Faucet		

Sampled by:

T. Nadermann
E. Wilson

Date:

Feb 21, 2022

11.6.1.1.1 2022

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Report ID:

A2B0912 - 03 16 22 1451

APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies LLC Element WO#: A2 B0912Project/Project #: Test Drinking Water for Lead - Columbia Valley Gardens Elementary

Delivery Info:

Date/time received: 2-23-22 @ 11:22 By: MKDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 2-23-22 @ 12:50 By: MKChain 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>11.4</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>N/A</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking Waters/Lead TestingGreen dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 2/23/21 @ 11:16 By: JAMAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Containers Marked as CVG-14-F; CVG-14-F - WF, COC reads CVG-14-F + CVG-14-WFCOC/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: CVG-14-F, received pH of 7

Additional information:

Labeled by:

JAM

Witness:

W

Cooler Inspected by:

JAM

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