



January 10, 2023

Kevin Montague
Tigard-Tualatin School District
6960 SW Sandburg Street
Tigard, OR 97233

Via email: shawn@srcandp.com
Shawn Christensen, SR Consulting + Projects, LLCus

Regarding: Lead in Drinking Water Sampling
Alberta Rider Elementary School
14850 SW 132nd Terrace
Tigard, Oregon 97224
PBS Project 27482.000 Phase 0001

Dear Mr. Montague:

On December 8, 2022 PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Alberta Rider Elementary School located at 14850 SW 132nd Terrace in Tigard, Oregon. The testing was requested by Tigard-Tualatin School District to meet requirements from the Oregon Department of Education (ODE) and Oregon Health Authority (OHA) to conduct water testing for lead in school drinking water systems.

BACKGROUND AND SAMPLING PROCEDURE

Oregon Administrative Rule (OAR) 333-061-0400 *Reducing Lead in School Drinking Water* required school districts to conduct initial testing for lead from each qualifying tap prior to June 30, 2020. This deadline was extended due to the COVID-19 pandemic.

The sampling methodology followed the protocol described in Section 4 of the Environmental Protection Agency (EPA) document *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018* (3Ts) and guidelines established by OHA and ODE. Following these guidelines, PBS assigned identification numbers and collected first draw samples from each test location. First draw samples consisted of the first 250 milliliters (mL) of water drawn from a fixture after the water has been sitting stagnant for 8 to 18 hours. The 3Ts' sampling protocol is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified. Because 250 mL samples are relatively small and thus undiluted, the action level set by the EPA for lead is 15 parts per billion (ppb).

The water sampling process was supervised by an Oregon Health Authority certified lead risk assessor. The samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

FINDINGS

First draw samples were collected from 63 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. The following table lists the results of the analysis.

Table 1: Main Building

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
22422700-001KF22A	Kitchen; West Handwash Station	Kitchen Faucet	First	2.20
22422700-002KF22A	Kitchen; Left Prep Sink	Kitchen Faucet	First	14.6
22422700-003KF22A	Kitchen; Right Prep Sink	Kitchen Faucet	First	14.8
22422700-004KF22A	Kitchen; East Handwash Station	Kitchen Faucet	First	1.43
22422700-005KF22A	Kitchen	Kitchen Faucet	First	6.63
22422700-009DW22A	Gym Restroom; Left Fountain	Drinking Fountain	First	0.278
22422700-010DW22A	Gym Restroom; Right Fountain	Drinking Fountain	First	0.207
22422700-016DW22A	Restroom Outside Room 218; Left Fountain	Drinking Fountain	First	ND
22422700-017DW22A	Restroom Outside Room 218; Right Fountain	Drinking Fountain	First	0.376
22422700-021CF22A	Room 214	Classroom Faucet	First	2.68
22422700-024NS22A	Room 203	Nurses Sink	First	3.76
22422700-026SF22A	Room 204	Staff Faucet	First	7.31
22422700-028SF22A	Room 207	Staff Faucet	First	0.487
22422700-029CF22A	Room 209	Classroom Faucet	First	3.27
22422700-033CF22A	Room 210	Classroom Faucet	First	14.5
22422700-034DW22A	Room 210	Drinking Fountain	First	4.46
22422700-035CF22A	Room 213	Classroom Faucet	First	2.77
22422700-037SF22A	Room 222	Staff Faucet	First	6.53
22422700-038CF22A	Room 235	Classroom Faucet	First	3.22
22422700-039DW22A	Room 235	Drinking Fountain	First	2.34
22422700-040CF22A	Room 236	Classroom Faucet	First	3.18
22422700-042CF22A	Room 234; South Faucet	Classroom Faucet	First	7.38
22422700-044CF22A	Room 234; North Faucet	Classroom Faucet	First	5.52
22422700-046CF22A	Room 237	Classroom Faucet	First	1.45
22422700-047DW22A	Room 237	Drinking Fountain	First	1.77
22422700-048CF22A	Room 238	Classroom Faucet	First	2.87
22422700-049DW22A	Room 238	Drinking Fountain	First	1.72
22422700-050CF22A	Room 252	Classroom Faucet	First	3.77
22422700-052CF22A	Room 253	Classroom Faucet	First	3.63
22422700-054CF22A	Room 251	Classroom Faucet	First	6.24
22422700-056CF22A	Room 254	Classroom Faucet	First	3.69
22422700-060CF22A	Room 255	Classroom Faucet	First	1.92
22422700-062CF22A	Room 256	Classroom Faucet	First	4.67
22422700-063DW22A	Room 256	Drinking Fountain	First	0.892
22422700-064CF22A	Room 123	Classroom Faucet	First	3.17
22422700-066CF22A	Room 124	Classroom Faucet	First	2.21
22422700-067DW22A	Room 124	Drinking Fountain	First	1.23
22422700-068CF22A	Room 122; South Faucet	Classroom Faucet	First	6.42

Sample ID*	Sample Location	Fixture Type	Sample Type	Sample Results (ppb)*
22422700-070CF22A	Room 122; North Faucet	Classroom Faucet	First	6.09
22422700-072CF22A	Room 125	Classroom Faucet	First	8.16
22422700-073DW22A	Room 125	Drinking Fountain	First	6.80
22422700-074CF22A	Room 126	Classroom Faucet	First	3.75
22422700-078DW22A	First Floor South Bathroom; Left Fountain	Drinking Fountain	First	0.443
22422700-079DW22A	First Floor South Bathroom; Right Fountain	Drinking Fountain	First	0.383
22422700-082CF22A	Room 135	Classroom Faucet	First	3.14
22422700-083DW22A	Room 135	Drinking Fountain	First	1.45
22422700-084CF22A	Room 136	Classroom Faucet	First	3.33
22422700-086CF22A	Room 134; South Faucet	Classroom Faucet	First	7.23
22422700-088CF22A	Room 134; North Faucet	Classroom Faucet	First	5.43
22422700-090CF22A	Room 137	Classroom Faucet	First	2.97
22422700-092CF22A	Room 138	Classroom Faucet	First	3.22
22422700-093DW22A	Room 138	Drinking Fountain	First	1.86
22422700-096DW22A	First Floor North Bathroom; Left Fountain	Drinking Fountain	First	0.355
22422700-097DW22A	First Floor North Bathroom; Right Fountain	Drinking Fountain	First	0.433
22422700-101CF22A	Room 152	Classroom Faucet	First	3.08
22422700-103CF22A	Room 153	Classroom Faucet	First	3.83
22422700-105CF22A	Room 151; South Faucet	Classroom Faucet	First	6.46
22422700-106DW22A	Room 151; South Fountain	Drinking Fountain	First	21.4
22422700-107CF22A	Room 154	Classroom Faucet	First	3.52
22422700-109CF22A	Room 151; North Faucet	Classroom Faucet	First	5.92
22422700-111DW22A	Room 155	Drinking Fountain	First	5.78
22422700-112DW22A	Room 155	Drinking Fountain	First	1.35
22422700-113CF22A	Room 156	Classroom Faucet	First	5.46

ND = no lead detected

ppb = parts per billion

Samples above the action level of 15 ppb are shown in **bold**

Elevated concentrations of lead were found in one fixture located in Room 151. Access to the elevated fixture should be restricted in accordance with OHA and EPA guidelines. PBS recommends taking corrective action per recommendations in EPA's 3Ts Module 6. The EPA protocol recommends follow-up flush sampling at all locations where first-draw samples contain lead concentrations greater than 15 parts per billion (ppb). Follow-up flush sampling is recommended prior to placing fixtures into service.

Flush samples will be collected after the water from the fixture was allowed to run for 30 seconds with a steady stream of the approximate diameter of a pencil. The purpose of flush sampling is to attempt to pinpoint if lead is getting into the water from the fixture or from the building's interior plumbing. PBS is available to assist with further investigation and corrective actions upon request.

Please refer to the attached laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter ($\mu\text{g/L}$), a unit of measure that is equivalent to ppb.

REIMBURSEMENT

The Tigard-Tualatin School District is eligible for reimbursement from the State of Oregon for the cost of laboratory analytical testing and shipping, but not consultant fees. This is done by completing the ODE's reimbursement template spreadsheet for each facility and submitting the information to ODE. PBS is available to assist with filing for reimbursement upon request.

ONGOING TESTING

According to OAR 333-061-0400, school districts are required to complete ongoing testing at least once every six years, starting from July 1, 2020. Taps are exempt from ongoing testing if the tap was installed after January 4, 2014, and meets the lead-free standard of no more than 0.25% lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014; the solder and flux meets the leadfree standard of no more than 0.2% lead; and was tested during initial testing and results were less than 1 ppb lead.

Please feel free to contact me at 503.417.7603 or rich@pbsusa.com with any questions or comments.

Sincerely,

Rich Dufresne
Senior Project Manager
PBS Engineering and Environmental Inc.

Attachments: Laboratory Results
Chain-of-Custody Form
Lead Risk Assessor Certification

The information contained in this document is proprietary and shall not be duplicated, used, or disclosed in whole or in part to other parties without the permission of PBS.



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Thursday, December 22, 2022

Rich Dufresne
PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239

RE: A2L0409 - Tigard-Tualatin SD - Alberta Rider/27482.000

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 A2L0409, which was received by the laboratory on 12/9/2022 at 12:45:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: jwoodcock@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	18.5 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

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Jason Woodcock, Project Manager



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Apex Laboratories, LLC

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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22422700-001KF22A	A2L0409-01	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-002KF22A	A2L0409-02	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-003KF22A	A2L0409-03	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-004KF22A	A2L0409-04	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-005KF22A	A2L0409-05	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-009DW22A	A2L0409-06	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-010DW22A	A2L0409-07	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-016DW22A	A2L0409-08	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-017DW22A	A2L0409-09	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-021CF22A	A2L0409-10	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-024NS22A	A2L0409-11	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-026SF22A	A2L0409-12	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-028SF22A	A2L0409-13	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-029CF22A	A2L0409-14	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-033CF22A	A2L0409-15	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-034DW22A	A2L0409-16	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-035CF22A	A2L0409-17	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-037SF22A	A2L0409-18	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-038CF22A	A2L0409-19	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-039DW22A	A2L0409-20	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-040CF22A	A2L0409-21	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-042CF22A	A2L0409-22	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-044CF22A	A2L0409-23	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-046CF22A	A2L0409-24	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-047DW22A	A2L0409-25	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-048CF22A	A2L0409-26	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-049DW22A	A2L0409-27	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-050CF22A	A2L0409-28	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-052CF22A	A2L0409-29	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-054CF22A	A2L0409-30	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-056CF22A	A2L0409-31	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-060CF22A	A2L0409-32	Drinking Water	12/08/22 00:00	12/09/22 12:45

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22422700-062CF22A	A2L0409-33	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-063DW22A	A2L0409-34	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-064CF22A	A2L0409-35	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-066CF22A	A2L0409-36	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-067DW22A	A2L0409-37	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-068CF22A	A2L0409-38	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-070CF22A	A2L0409-39	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-072CF22A	A2L0409-40	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-073DW22A	A2L0409-41	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-074CF22A	A2L0409-42	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-078DW22A	A2L0409-43	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-079DW22A	A2L0409-44	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-082CF22A	A2L0409-45	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-083DW22A	A2L0409-46	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-084CF22A	A2L0409-47	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-086CF22A	A2L0409-48	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-088CF22A	A2L0409-49	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-090CF22A	A2L0409-50	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-092CF22A	A2L0409-51	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-093DW22A	A2L0409-52	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-096DW22A	A2L0409-53	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-097DW22A	A2L0409-54	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-101CF22A	A2L0409-55	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-103CF22A	A2L0409-56	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-105CF22A	A2L0409-57	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-106DW22A	A2L0409-58	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-107CF22A	A2L0409-59	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-109CF22A	A2L0409-60	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-111CF22A	A2L0409-61	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-112DW22A	A2L0409-62	Drinking Water	12/08/22 00:00	12/09/22 12:45
22422700-113CF22A	A2L0409-63	Drinking Water	12/08/22 00:00	12/09/22 12:45

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Jason Woodcock, Project Manager



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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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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
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	2.20	---	0.200	ug/L	1	12/16/22 14:44	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	14.6	---	0.200	ug/L	1	12/16/22 14:56	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	14.8	---	0.200	ug/L	1	12/16/22 15:00	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	1.43	---	0.200	ug/L	1	12/16/22 15:04	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	6.63	---	0.200	ug/L	1	12/16/22 15:08	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	0.278	---	0.200	ug/L	1	12/16/22 15:12	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	0.207	---	0.200	ug/L	1	12/16/22 15:24	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	ND	---	0.200	ug/L	1	12/16/22 15:27	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	0.376	---	0.200	ug/L	1	12/16/22 15:30	EPA 200.8	
				Matrix: Drinking Water				

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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
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	2.68	---	0.200	ug/L	1	12/16/22 15:34	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	3.76	---	0.200	ug/L	1	12/16/22 15:38	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	7.31	---	0.200	ug/L	1	12/16/22 15:42	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	0.487	---	0.200	ug/L	1	12/16/22 15:46	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	3.27	---	0.200	ug/L	1	12/16/22 15:49	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	14.5	---	0.200	ug/L	1	12/16/22 15:53	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	4.46	---	0.200	ug/L	1	12/16/22 15:57	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	2.77	---	0.200	ug/L	1	12/16/22 16:09	EPA 200.8	
				Matrix: Drinking Water				
<u>Batch: 22L0601</u>								
Lead	6.53	---	0.200	ug/L	1	12/16/22 16:13	EPA 200.8	
				Matrix: Drinking Water				

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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
Matrix: Drinking Water								
<u>Batch: 22L0601</u>								
Lead	3.22	---	0.200	ug/L	1	12/16/22 16:17	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0601</u>								
Lead	2.34	---	0.200	ug/L	1	12/16/22 16:21	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	3.18	---	0.200	ug/L	1	12/16/22 16:37	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	7.38	---	0.200	ug/L	1	12/16/22 16:57	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	5.52	---	0.200	ug/L	1	12/16/22 17:01	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	1.45	---	0.200	ug/L	1	12/16/22 17:05	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	1.77	---	0.200	ug/L	1	12/16/22 17:09	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	2.87	---	0.200	ug/L	1	12/16/22 17:13	EPA 200.8	
Matrix: Drinking Water								
<u>Batch: 22L0602</u>								
Lead	1.72	---	0.200	ug/L	1	12/16/22 17:17	EPA 200.8	
Matrix: Drinking Water								

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ANALYTICAL REPORT

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
--	---	---

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
22422700-050CF22A (A2L0409-28)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	3.77	---	0.200	ug/L	1	12/16/22 17:21	EPA 200.8	
22422700-052CF22A (A2L0409-29)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	3.63	---	0.200	ug/L	1	12/16/22 17:25	EPA 200.8	
22422700-054CF22A (A2L0409-30)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	6.24	---	0.200	ug/L	1	12/16/22 17:29	EPA 200.8	
22422700-056CF22A (A2L0409-31)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	3.69	---	0.200	ug/L	1	12/16/22 17:33	EPA 200.8	
22422700-060CF22A (A2L0409-32)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	1.92	---	0.200	ug/L	1	12/16/22 17:45	EPA 200.8	
22422700-062CF22A (A2L0409-33)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	4.67	---	0.200	ug/L	1	12/16/22 17:49	EPA 200.8	
22422700-063DW22A (A2L0409-34)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	0.892	---	0.200	ug/L	1	12/16/22 17:53	EPA 200.8	
22422700-064CF22A (A2L0409-35)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	3.17	---	0.200	ug/L	1	12/16/22 17:57	EPA 200.8	
22422700-066CF22A (A2L0409-36)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	2.21	---	0.200	ug/L	1	12/16/22 18:01	EPA 200.8	
22422700-067DW22A (A2L0409-37)				Matrix: Drinking Water				

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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
22422700-067DW22A (A2L0409-37)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	1.23	---	0.200	ug/L	1	12/16/22 18:05	EPA 200.8	
22422700-068CF22A (A2L0409-38)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	6.42	---	0.200	ug/L	1	12/16/22 18:09	EPA 200.8	
22422700-070CF22A (A2L0409-39)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	6.09	---	0.200	ug/L	1	12/16/22 18:13	EPA 200.8	
22422700-072CF22A (A2L0409-40)				Matrix: Drinking Water				
Batch: 22L0602								
Lead	8.16	---	0.200	ug/L	1	12/16/22 18:17	EPA 200.8	
22422700-073DW22A (A2L0409-41)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	6.80	---	0.200	ug/L	1	12/16/22 18:41	EPA 200.8	
22422700-074CF22A (A2L0409-42)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	3.75	---	0.200	ug/L	1	12/16/22 18:54	EPA 200.8	
22422700-078DW22A (A2L0409-43)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	0.443	---	0.200	ug/L	1	12/16/22 18:58	EPA 200.8	
22422700-079DW22A (A2L0409-44)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	0.383	---	0.200	ug/L	1	12/16/22 19:01	EPA 200.8	
22422700-082CF22A (A2L0409-45)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	3.14	---	0.200	ug/L	1	12/16/22 19:05	EPA 200.8	
22422700-083DW22A (A2L0409-46)				Matrix: Drinking Water				

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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
22422700-083DW22A (A2L0409-46)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	1.45	---	0.200	ug/L	1	12/16/22 19:09	EPA 200.8	
22422700-084CF22A (A2L0409-47)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	3.33	---	0.200	ug/L	1	12/16/22 19:21	EPA 200.8	
22422700-086CF22A (A2L0409-48)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	7.23	---	0.200	ug/L	1	12/16/22 19:25	EPA 200.8	
22422700-088CF22A (A2L0409-49)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	5.43	---	0.200	ug/L	1	12/16/22 19:29	EPA 200.8	
22422700-090CF22A (A2L0409-50)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	2.97	---	0.200	ug/L	1	12/16/22 19:33	EPA 200.8	
22422700-092CF22A (A2L0409-51)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	3.22	---	0.200	ug/L	1	12/16/22 19:37	EPA 200.8	
22422700-093DW22A (A2L0409-52)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	1.86	---	0.200	ug/L	1	12/16/22 19:41	EPA 200.8	
22422700-096DW22A (A2L0409-53)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	0.355	---	0.200	ug/L	1	12/16/22 19:45	EPA 200.8	
22422700-097DW22A (A2L0409-54)				Matrix: Drinking Water				
Batch: 22L0619								
Lead	0.433	---	0.200	ug/L	1	12/16/22 19:48	EPA 200.8	
22422700-101CF22A (A2L0409-55)				Matrix: Drinking Water				

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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
22422700-101CF22A (A2L0409-55)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	3.08	---	0.200	ug/L	1	12/16/22 19:51	EPA 200.8	
22422700-103CF22A (A2L0409-56)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	3.83	---	0.200	ug/L	1	12/16/22 19:56	EPA 200.8	
22422700-105CF22A (A2L0409-57)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	6.46	---	0.200	ug/L	1	12/16/22 20:08	EPA 200.8	
22422700-106DW22A (A2L0409-58)				Matrix: Drinking Water				
<u>Batch: 22L0626</u>								
Lead	21.4	---	0.200	ug/L	1	12/16/22 20:40	EPA 200.8	DW-D
22422700-107CF22A (A2L0409-59)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	3.52	---	0.200	ug/L	1	12/16/22 20:12	EPA 200.8	
22422700-109CF22A (A2L0409-60)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	5.95	---	0.200	ug/L	1	12/16/22 20:16	EPA 200.8	
22422700-111CF22A (A2L0409-61)				Matrix: Drinking Water				
<u>Batch: 22L0619</u>								
Lead	5.78	---	0.200	ug/L	1	12/16/22 20:20	EPA 200.8	
22422700-112DW22A (A2L0409-62)				Matrix: Drinking Water				
<u>Batch: 22L0620</u>								
Lead	1.35	---	0.200	ug/L	1	12/16/22 20:35	EPA 200.8	
22422700-113CF22A (A2L0409-63)				Matrix: Drinking Water				
<u>Batch: 22L0620</u>								
Lead	5.46	---	0.200	ug/L	1	12/16/22 20:55	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0601 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0601-BLK1)		Prepared: 12/16/22 09:06 Analyzed: 12/16/22 14:36										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0601-BS1)		Prepared: 12/16/22 09:06 Analyzed: 12/16/22 14:40										
<u>EPA 200.8</u>												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	---
Duplicate (22L0601-DUP1)		Prepared: 12/16/22 09:06 Analyzed: 12/16/22 14:48										
<u>QC Source Sample: 22422700-001KF22A (A2L0409-01)</u>												
<u>EPA 200.8</u>												
Lead	2.19	---	0.200	ug/L	1	---	2.20	---	---	0.7	20%	---
Matrix Spike (22L0601-MS1)		Prepared: 12/16/22 09:06 Analyzed: 12/16/22 14:52										
<u>QC Source Sample: 22422700-001KF22A (A2L0409-01)</u>												
<u>EPA 200.8</u>												
Lead	17.2	---	0.201	ug/L	1	15.0	2.20	100	70 - 130%	---	---	---
Matrix Spike (22L0601-MS2)		Prepared: 12/16/22 09:06 Analyzed: 12/16/22 16:25										
<u>QC Source Sample: 22422700-039DW22A (A2L0409-20)</u>												
<u>EPA 200.8</u>												
Lead	17.8	---	0.201	ug/L	1	15.0	2.34	103	70 - 130%	---	---	---
Batch 22L0602 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0602-BLK1)		Prepared: 12/16/22 09:10 Analyzed: 12/16/22 16:29										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0602-BS1)		Prepared: 12/16/22 09:10 Analyzed: 12/16/22 16:33										
<u>EPA 200.8</u>												
Lead	15.6	---	0.201	ug/L	1	15.0	---	104	85 - 115%	---	---	---
Duplicate (22L0602-DUP1)		Prepared: 12/16/22 09:10 Analyzed: 12/16/22 16:41										
<u>QC Source Sample: 22422700-040CF22A (A2L0409-21)</u>												

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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 22L0602 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22L0602-DUP1)		Prepared: 12/16/22 09:10 Analyzed: 12/16/22 16:41										
<u>QC Source Sample: 22422700-040CF22A (A2L0409-21)</u>												
<u>EPA 200.8</u>												
Lead	3.18	---	0.200	ug/L	1	---	3.18	---	---	0.2	20%	
Matrix Spike (22L0602-MS1)						Prepared: 12/16/22 09:10 Analyzed: 12/16/22 16:45						
<u>QC Source Sample: 22422700-040CF22A (A2L0409-21)</u>												
<u>EPA 200.8</u>												
Lead	18.7	---	0.201	ug/L	1	15.0	3.18	103	70 - 130%	---	---	
Matrix Spike (22L0602-MS2)						Prepared: 12/16/22 09:10 Analyzed: 12/16/22 18:21						
<u>QC Source Sample: 22422700-072CF22A (A2L0409-40)</u>												
<u>EPA 200.8</u>												
Lead	23.7	---	0.201	ug/L	1	15.0	8.16	104	70 - 130%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0619 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0619-BLK1)		Prepared: 12/16/22 11:44 Analyzed: 12/16/22 18:34										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0619-BS1)		Prepared: 12/16/22 11:44 Analyzed: 12/16/22 18:37										
<u>EPA 200.8</u>												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Duplicate (22L0619-DUP1)		Prepared: 12/16/22 11:44 Analyzed: 12/16/22 18:45										
<u>QC Source Sample: 22422700-073DW22A (A2L0409-41)</u>												
<u>EPA 200.8</u>												
Lead	6.71	---	0.200	ug/L	1	---	6.80	---	---	1	20%	---
Matrix Spike (22L0619-MS1)		Prepared: 12/16/22 11:44 Analyzed: 12/16/22 18:49										
<u>QC Source Sample: 22422700-073DW22A (A2L0409-41)</u>												
<u>EPA 200.8</u>												
Lead	22.1	---	0.201	ug/L	1	15.0	6.80	102	70 - 130%	---	---	---
Matrix Spike (22L0619-MS2)		Prepared: 12/16/22 11:44 Analyzed: 12/16/22 20:24										
<u>QC Source Sample: 22422700-111CF22A (A2L0409-61)</u>												
<u>EPA 200.8</u>												
Lead	21.2	---	0.201	ug/L	1	15.0	5.78	103	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 22L0620 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0620-BLK1)		Prepared: 12/16/22 11:47 Analyzed: 12/16/22 20:28										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0620-BS1)		Prepared: 12/16/22 11:47 Analyzed: 12/16/22 20:31										
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Duplicate (22L0620-DUP1)		Prepared: 12/16/22 11:47 Analyzed: 12/16/22 20:39										
<u>QC Source Sample: 22422700-112DW22A (A2L0409-62)</u>												
<u>EPA 200.8</u>												
Lead	1.32	---	0.200	ug/L	1	---	1.35	---	---	2	20%	---
Matrix Spike (22L0620-MS1)		Prepared: 12/16/22 11:47 Analyzed: 12/16/22 20:43										
<u>QC Source Sample: 22422700-112DW22A (A2L0409-62)</u>												
<u>EPA 200.8</u>												
Lead	16.2	---	0.201	ug/L	1	15.0	1.35	99	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 22L0626 - EPA 3015A						Drinking Water						
Blank (22L0626-BLK1)		Prepared: 12/16/22 14:25 Analyzed: 12/16/22 20:30										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0626-BS1)		Prepared: 12/16/22 14:25 Analyzed: 12/16/22 20:35										
<u>EPA 200.8</u>												
Lead	16.4	---	0.200	ug/L	1	16.7	---	99	85 - 115%	---	---	---
Duplicate (22L0626-DUP1)		Prepared: 12/16/22 14:25 Analyzed: 12/16/22 20:45										
<u>QC Source Sample: 22422700-106DW22A (A2L0409-58)</u>												
<u>EPA 200.8</u>												
Lead	21.4	---	0.200	ug/L	1	---	21.4	---	---	0.1	20%	DW-D
Matrix Spike (22L0626-MS1)		Prepared: 12/16/22 14:25 Analyzed: 12/16/22 20:50										
<u>QC Source Sample: 22422700-106DW22A (A2L0409-58)</u>												
<u>EPA 200.8</u>												
Lead	36.6	---	0.200	ug/L	1	16.7	21.4	91	70 - 130%	---	---	DW-D

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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
<u>Batch: 22L0601</u>							
A2L0409-01	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-02	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-03	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-04	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-05	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-06	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-07	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-08	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-09	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-10	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-11	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-12	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-13	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-14	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-15	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-16	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-17	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-18	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-19	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
A2L0409-20	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:06	10mL/10mL	10mL/10mL	1.00
<u>Batch: 22L0602</u>							
A2L0409-21	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-22	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-23	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-24	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-25	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-26	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-27	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-28	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-29	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-30	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-31	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-32	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-33	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-34	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-35	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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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
A2L0409-36	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-37	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-38	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-39	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00
A2L0409-40	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 09:10	10mL/10mL	10mL/10mL	1.00

Batch: 22L0619

A2L0409-41	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-42	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-43	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-44	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-45	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-46	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-47	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-48	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-49	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-50	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-51	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-52	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-53	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-54	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-55	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-56	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-57	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-59	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-60	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00
A2L0409-61	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:44	10mL/10mL	10mL/10mL	1.00

Batch: 22L0620

A2L0409-62	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:47	10mL/10mL	10mL/10mL	1.00
A2L0409-63	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 11:47	10mL/10mL	10mL/10mL	1.00

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22L0626							
A2L0409-58	Drinking Water	EPA 200.8	12/08/22 00:00	12/16/22 14:25	45mL/50mL	45mL/50mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u>	Project: <u>Tigard-Tualatin SD</u>	<u>Report ID:</u>
4412 S Corbett Ave	Project Number: Alberta Rider/27482.000	A2L0409 - 12 22 22 1055
Portland, OR 97239	Project Manager: Rich Dufresne	

QUALIFIER DEFINITIONS

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

Apex Laboratories

DW-D Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not 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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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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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
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

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

Jason Woodcock, Project Manager

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A2L0409 (1/3)



LEAD IN DRINKING WATER CHAIN OF CUSTODY

Project : Tualatin SD – Alberta Rider Project No: 27482.000 Phase: 0001 Task: _____

Samples **submitted** undamaged to lab by: Name/Sign: Ellie D. [Signature] Date: 12-8-22 Time: 15:00

Samples **received** by lab undamaged: Name/Sign: Andy Mariposa [Signature] Date: 12-9-22 Time: 1245

Lab APEX (specify) Turnaround time (check one): 5 days 10 days

Send Results to: Rich Dufresne, Ellie Dick

SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTION
22422700-001KF22A	12/08/22	22422700	Kitchen	Handwash
22422700-002KF22A	12/08/22	22422700	Kitchen	Prep Sink L
22422700-003KF22A	12/08/22	22422700	Kitchen	Prep Sink R
22422700-004KF22A	12/08/22	22422700	Kitchen	Handwash
22422700-005KF22A	12/08/22	22422700	Kitchen	Dish Sprayer
22422700-009DW22A	12/08/22	22422700	Gym Restroom Left	Drinking Water Fountain
22422700-010DW22A	12/08/22	22422700	Gym Restroom Right	Drinking Water Fountain
22422700-016DW22A	12/08/22	22422700	Bathroom Outside 218	Drinking Water Fountain
22422700-017DW22A	12/08/22	22422700	Bathroom Outside 218	Drinking Water Fountain
22422700-021CF22A	12/08/22	22422700	Room 214	Classroom Faucet
22422700-024NS22A	12/08/22	22422700	Health Room 203	Nurse's Office Sink
22422700-026SF22A	12/08/22	22422700	Room 204	Staff Faucet
22422700-028SF22A	12/08/22	22422700	Staff Lounge – Room 207	Staff Faucet
22422700-029CF22A	12/08/22	22422700	Room 209	Classroom Faucet
22422700-033CF22A	12/08/22	22422700	Room 210	Classroom Faucet
22422700-034DW22A	12/08/22	22422700	Room 210	Drinking Water Fountain
22422700-035CF22A	12/08/22	22422700	Room 213	Classroom Faucet
22422700-037SF22A	12/08/22	22422700	Room 222	Staff Faucet
22422700-038CF22A	12/08/22	22422700	Room 235	Classroom Faucet
22422700-039DW22A	12/08/22	22422700	Room 235	Drinking Water Fountain
22422700-040CF22A	12/08/22	22422700	Room 236	Classroom Faucet
22422700-042CF22A	12/08/22	22422700	Room 234	South Classroom Faucet
22422700-044CF22A	12/08/22	22422700	Room 234	North Classroom Faucet

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A2L0409
~~A2L0409~~ ^{ARC}
12/21/22
REVISED

22422700-046CF22A	12/08/22	22422700	Room 237	Classroom Faucet
22422700-047DW22A	12/08/22	22422700	Room 237	Drinking Water Fountain
22422700-048CF22A	12/08/22	22422700	Room 238	Classroom Faucet
22422700-049DW22A	12/08/22	22422700	Room 238	Drinking Water Fountain
22422700-050CF22A	12/08/22	22422700	Room 252	Classroom Faucet
22422700-052CF22A	12/08/22	22422700	Room 253	Classroom Faucet
22422700-054CF22A	12/08/22	22422700	Room 251	Classroom Faucet
22422700-056CF22A	12/08/22	22422700	Room 254	Classroom Faucet
22422700-060CF22A	12/08/22	22422700	Room 255	Classroom Faucet
22422700-062CF22A	12/08/22	22422700	Room 256	Classroom Faucet
22422700-063DW22A	12/08/22	22422700	Room 256	Drinking Water Fountain
22422700-064CF22A	12/08/22	22422700	Room 123	Classroom Faucet
22422700-066CF22A	12/08/22	22422700	Room 124	Classroom Faucet
22422700-067DW22A	12/08/22	22422700	Room 124	Drinking Water Fountain
22422700-068CF22A	12/08/22	22422700	Room 122	South Classroom Faucet
22422700-070CF22A	12/08/22	22422700	Room 122	North Classroom Faucet
22422700-072CF22A	12/08/22	22422700	Room 125	Classroom Faucet
22422700-073DW22A	12/08/22	22422700	Room 125	Drinking Water Fountain
22422700-074CF22A	12/08/22	22422700	Room 126	Classroom Faucet
22422700-078DW22A	12/08/22	22422700	First Floor S Bathroom Left	Drinking Water Fountain
22422700-079DW22A	12/08/22	22422700	First Floor S Bathroom Right	Drinking Water Fountain
22422700-082CF22A	12/08/22	22422700	Room 135	Classroom Faucet
22422700-083DW22A	12/08/22	22422700	Room 135	Drinking Water Fountain
22422700-084CF22A	12/08/22	22422700	Room 136	Classroom Faucet
22422700-086CF22A	12/08/22	22422700	Room 134 South	Classroom Faucet
22422700-088CF22A	12/08/22	22422700	Room 134 North	Classroom Faucet
22422700-090CF22A	12/08/22	22422700	Room 137	Classroom Faucet
22422700-092CF22A	12/08/22	22422700	Room 138	Classroom Faucet
22422700-093DW22A	12/08/22	22422700	Room 138	Drinking Water Fountain
22422700-096DW22A	12/08/22	22422700	First Floor N Bathroom Left	Drinking Water Fountain
22422700-097DW22A	12/08/22	22422700	First Floor N Bathroom Right	Drinking Water Fountain
22422700-101CF22A	12/08/22	22422700	Room 152	Classroom Faucet
22422700-103CF22A	12/08/22	22422700	Room 153	Classroom Faucet
22422700-105CF22A	12/08/22	22422700	Room 151 S	Classroom Faucet
22422700-106DW22A	12/08/22	22422700	Room 151 S	Drinking Water Fountain





ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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A2L0409 (2/3)



22422700-046CF22A	12/08/22	22422700	Room 237	Classroom Faucet
22422700-047DW22A	12/08/22	22422700	Room 237	Drinking Water Fountain
22422700-048CF22A	12/08/22	22422700	Room 238	Classroom Faucet
22422700-049DW22A	12/08/22	22422700	Room 238	Drinking Water Fountain
22422700-050CF22A	12/08/22	22422700	Room 252	Classroom Faucet
22422700-052CF22A	12/08/22	22422700	Room 253	Classroom Faucet
22422700-054CF22A	12/08/22	22422700	Room 251	Classroom Faucet
22422700-056CF22A	12/08/22	22422700	Room 254	Classroom Faucet
22422700-060CF22A	12/08/22	22422700	Room 255	Classroom Faucet
22422700-062CF22A	12/08/22	22422700	Room 256	Classroom Faucet
22422700-063DW22A	12/08/22	22422700	Room 256	Drinking Water Fountain
22422700-064CF22A	12/08/22	22422700	Room 123	Classroom Faucet
22422700-066CF22A	12/08/22	22422700	Room 124	Classroom Faucet
22422700-067DW22A	12/08/22	22422700	Room 124	Drinking Water Fountain
22422700-068CF22A	12/08/22	22422700	Room 122	South Classroom Faucet
22422700-070CF22A	12/08/22	22422700	Room 122	North Classroom Faucet
22422700-072CF	12/08/22	22422700	Room 125	Classroom Faucet
22422700-073DW	12/08/22	22422700	Room 125	Drinking Water Fountain
22422700-074CF	12/08/22	22422700	Room 126	Classroom Faucet
22422700-078DW	12/08/22	22422700	First Floor S Bathroom Left	Drinking Water Fountain
22422700-079DW	12/08/22	22422700	First Floor S Bathroom Right	Drinking Water Fountain
22422700-082CF	12/08/22	22422700	Room 135	Classroom Faucet
22422700-083DW	12/08/22	22422700	Room 135	Drinking Water Fountain
22422700-084CF	12/08/22	22422700	Room 136	Classroom Faucet
22422700-086CF	12/08/22	22422700	Room 134 South	Classroom Faucet
22422700-088CF	12/08/22	22422700	Room 134 North	Classroom Faucet
22422700-090CF	12/08/22	22422700	Room 137	Classroom Faucet
22422700-092CF	12/08/22	22422700	Room 138	Classroom Faucet
22422700-093DW	12/08/22	22422700	Room 138	Drinking Water Fountain
22422700-096DW	12/08/22	22422700	First Floor N Bathroom Left	Drinking Water Fountain
22422700-097DW	12/08/22	22422700	First Floor N Bathroom Right	Drinking Water Fountain
22422700-101CF	12/08/22	22422700	Room 152	Classroom Faucet
22422700-103CF	12/08/22	22422700	Room 153	Classroom Faucet
22422700-105CF	12/08/22	22422700	Room 151 S	Classroom Faucet
22422700-106DW	12/08/22	22422700	Room 151 S	Drinking Water Fountain

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.

Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Tigard-Tualatin SD</u> Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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A2L0409
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12/13/22
REVISED

22422700-107CF22A	12/08/22	22422700	Room 154	Classroom Faucet
22422700-109CF22A	12/08/22	22422700	Room 151	Classroom Faucet
22422700-111CF22A	12/08/22	22422700	Room 155	Classroom Faucet
22422700-112DW22A	12/08/22	22422700	Room 155	Drinking Water Fountain
22422700-113CF22A	12/08/22	22422700	Room 156	Classroom Faucet

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239

Project: **Tigard-Tualatin SD**
Project Number: **Alberta Rider/27482.000**
Project Manager: **Rich Dufresne**

Report ID:
A2L0409 - 12 22 22 1055

A2L0409(3/3)



22422700-107CF	12/08/22	22422700	Room 154	Classroom Faucet
22422700-109CF	12/08/22	22422700	Room 151	Classroom Faucet
22422700-111CF	12/08/22	22422700	Room 155	Classroom Faucet
22422700-112DW	12/08/22	22422700	Room 155	Drinking Water Fountain
22422700-113CF	12/08/22	22422700	Room 156	Classroom Faucet

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Tigard-Tualatin SD Project Number: Alberta Rider/27482.000 Project Manager: Rich Dufresne	Report ID: A2L0409 - 12 22 22 1055
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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 L0409

Project/Project #: Tualatin SD - Alberta Rider

Delivery Info:

Date/time received: 12/09/22 @ 12:45 By: AJM

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

Cooler Inspection Date/time inspected: 12/09/22 @ 14:02 By: AJM

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	<u>Cooler #1</u>	<u>Cooler #2</u>	<u>Cooler #3</u>	<u>Cooler #4</u>	<u>Cooler #5</u>	<u>Cooler #6</u>	<u>Cooler #7</u>
Temperature (°C)	<u>18.5</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 (In/Out)	<u>Out</u>						

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

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 12/9/22 @ 19:40 By: AJM

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: no ID prefix or suffix 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: -72CF - 113 CF no ID suffix on COC/containers

Labeled by: AJM

Witness: APC

Cooler Inspected by: AJM

Form Y-003 R-00

Apex Laboratories

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Jason Woodcock, Project Manager

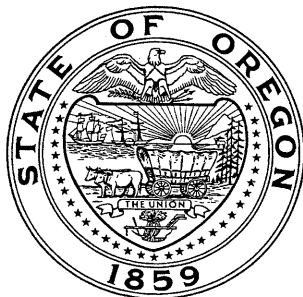
State of Oregon
Oregon Health Authority

Richard A. Dufresne

is certified by the Oregon Health Authority to conduct Lead-Based Paint Activities

Risk Assessor

Certification Number:	1268--Indv--R
Issuance Date:	7/30/2020
Expiration Date:	7/30/2023



Oregon
Health
Authority