

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 Tualatin Elementary School 20405 SW 95th Avenue Tualatin, Oregon 97062 PBS Project 27482.000 Phase 0011

Dear Mr. Montague:

On December 14, 2022, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Tualatin Elementary School located at 20405 SW 95th Avenue in Tualatin, 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 3 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)*
22430800-001CF22A	Room 105	Classroom Faucet	First	1.06
22430800-002DW22A	Outside Cafeteria	Drinking Fountain; Left Fountain	First	1.37
22430800-003DW22A	Outside Cafeteria	Drinking Fountain; Right Fountain	First	1.15

ND = no lead detected

ppb = parts per billion

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

All samples were below the action level of 15 parts per billion (ppb).

Please refer to the attached laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter (μ 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.

Tigard-Tualatin School District Lead in Drinking Water Sampling - Tualatin Elementary School January 2023 Page 3 of 3

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.



Apex Laboratories, LLC

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

Thursday, December 29, 2022 Rich Dufresne PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239

RE: A2L0639 - Tigard-Tualatin SD - Tualatin Elementary/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 A2L0639, which was received by the laboratory on 12/15/2022 at 9:23:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>jwoodcock@apex-labs.com</u>, 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	15.8 degC	

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



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PBS Engineering and Environmental	Project:	Tigard-Tualatin SD	
4412 S Corbett Ave	Project Number:	Tualatin Elementary/27482.	<u>Report ID:</u>
Portland, OR 97239	Project Manager:	Rich Dufresne	A2L0639 - 12 29 22 1152

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORM	ATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22430800-001CF22A	A2L0639-01	Drinking Water	12/14/22 00:00	12/15/22 09:23
22430800-002DW22A	A2L0639-02	Drinking Water	12/14/22 00:00	12/15/22 09:23
22430800-003DW22A	A2L0639-03	Drinking Water	12/14/22 00:00	12/15/22 09:23

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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



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 SDProject Number:Tualatin Elementary/27482.Project Manager:Rich Dufresne

<u>Report ID:</u> A2L0639 - 12 29 22 1152

ANALYTICAL SAMPLE RESULTS

	Total	Metals in Dri	nking Water b	oy EPA 200.	8 (ICPMS)			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
22430800-001CF22A (A2L0639-01)				Matrix: D	inking Wate	r		
Batch: 22L0680								
Lead	1.06		0.200	ug/L	1	12/19/22 22:22	EPA 200.8	
22430800-002DW22A (A2L0639-02)				Matrix: Di	inking Wate	r		
Batch: 22L0680								
Lead	1.37		0.200	ug/L	1	12/19/22 22:26	EPA 200.8	
22430800-003DW22A (A2L0639-03)				Matrix: Di	inking Wate	r		
Batch: 22L0680								
Lead	1.15		0.200	ug/L	1	12/19/22 22:30	EPA 200.8	

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Portland, OR 97239

Project:<u>Tigard-Tualatin SD</u>Project Number:Tualatin Elementary/27482.Project Manager:Rich Dufresne

<u>Report ID:</u> A2L0639 - 12 29 22 1152

QUALITY CONTROL (QC) SAMPLE RESULTS

		Tota	l Metals in	Drinking	Water by	EPA 200.	8 (ICPMS	5)				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0680 - EPA 200.8	Direct Analy	sis					Drir	king Wat	ter			
Blank (22L0680-BLK1)		Prepared	: 12/19/22 14:	56 Analyz	zed: 12/19/2	2 21:23						
EPA 200.8												
Lead	ND		0.200	ug/L	1							
LCS (22L0680-BS1)		Prepared	: 12/19/22 14:	56 Analyz	zed: 12/19/2	2 21:35						
EPA 200.8			0.001					100	0.5. 11.50/			
Lead	15.5		0.201	ug/L	1	15.0		103	85 - 115%			

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SAMPLE PREPARATION INFORMATION

		Total Metals	in Drinking Water by	EPA 200.8 (ICPMS)		
Prep: EPA 200.8	B Direct Analysis				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22L0680							
A2L0639-01	Drinking Water	EPA 200.8	12/14/22 00:00	12/19/22 14:56	10mL/10mL	10mL/10mL	1.00
A2L0639-02	Drinking Water	EPA 200.8	12/14/22 00:00	12/19/22 14:56	10mL/10mL	10mL/10mL	1.00
A2L0639-03	Drinking Water	EPA 200.8	12/14/22 00:00	12/19/22 14:56	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



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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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Jason Woodcock, Project Manager



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PBS Engineering and Environmental

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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.

- <u>" dry"</u> 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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Project Number: Tualatin Elementary/27482. Project Manager: Rich Dufresne

<u>Report ID:</u> A2L0639 - 12 29 22 1152

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.

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Project Manager: Rich Dufresne

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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 <u>exception</u> of any analyte(s) listed below:

<u>Apex Lab</u>	oratories				
Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
		All reported analytes are included ir	Apex Laboratories' curren	t 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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

BS Engineering and Environmental 412 S Corbett Ave Portland, OR 97239		•	<u>Tigard-Tualatin SD</u> Tualatin Elementary Rich Dufresne	/27482.	<u>Report ID:</u> A2L0639 - 12 29 22 1152
PBS		NKING WATER	CHAIN OF CUST	А25 QU39 <u>ору</u>	
Project Name <u>Tualitan El</u> Samples <u>submitted</u> un Samples <u>received</u> by la Lab <u>APEX</u> (specify) Send Results to: Rich	damaged to lab by: Na ab undamaged: Na	ame/Sign: <u>Ellie</u> D (<i>Inspector</i>) ame/Sign: <u>40</u> (<i>Lab</i>)	-	_Phase: <u>0001</u> _Task <u> 2- 4-22</u> Tim Date: <mark>]2] 5/</mark> 22Tim): □ 5 days ()2	e: <u>14:00</u> e: <u>923</u>
SAMPLE #	DATE	BUILDING	ROOM	DESCRIPTIC	N
22430800-001CF22A	12-14-22	Main	Pre-K	DEGORA HO	
22430800-002DW22A	12-14-22	Main	Cafeteria next to Bathrooms	Left Fountain	
22430800-003DW22A	12-14-22	Main	Cafeteria next to Bathrooms	Right Fountain	

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<u>Report ID:</u> A2L0639 - 12 29 22 1152

Client: PBS			Element WO#: A2	101,29
Project/Project #:	Tualitan	Elementary		Phase 000)
Delivery Info:				<u></u>
Date/time received:	2/15/22 @ 92	23 BV: E4	T	
Delivered by: Apex			_SwiftSenvoySDS	04
Cooler Inspection	Date/time inspected	1: 12/15/22 @ 10	<u> </u>	Other
Chain of Custody includ			ody seals? YesN	
Signed/dated by client?	4	0.000	1 <u>1</u>	<u> </u>
Signed/dated by Apex?	Yes X			
			Cooler #4 Cooler #5 Cool	er #6 Cooler #7
Temperature (°C)	15.8		<u> </u>	<u>Cooler #1</u>
Received on ice? (Y/N)	N			and a long a
Temp. blanks? (Y/N)	$\overline{\mathcal{N}}$			
Ice type: (Gel/Real/Othe	r) <u>NA</u>			
Condition (In/Out):	OUT			
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Apex Laboratories

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



