



October 27, 2022

Dave Peterson  
Hillsboro School District  
4901 SE Witch Hazel Road  
Hillsboro, Oregon 97123

Via e-mail:       petersod@hsd.or.k12.us

Regarding:       Limited Drinking Water Sampling Report  
                  Lenox Elementary School  
                  21200 NW Rock Creek Boulevard  
                  Portland, Oregon 97229  
                  PBS Project Number 23440.166 / 0006

Dear Mr. Peterson:

On October 7, 2022, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling in the kitchen and cafeteria areas at Lenox Elementary School in Hillsboro, Oregon. The testing was requested by Hillsboro School District as part of their efforts to ensure that concentrations of lead in drinking water at the school remain below the Oregon Department of Education (ODE) action level of 15 parts per billion (ppb).

The sampling included fixtures that are used for drinking water or food preparation and that are likely to be used by after-school program participants. The pot filler faucet in the kitchen, and all fixtures in the boys and girls restrooms northeast of the cafeteria, were not fully functioning at the time of sampling. Those fixtures have been repaired and will be sampled on October 29, 2022.

Seven samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

The water samples from the pot filler sprayer and north prep sink faucet in the kitchen showed lead in excess of 15 ppb. These fixtures have been removed from service pending replacement. All other samples analyzed below 15 ppb of lead. The following table lists the results of the analysis:

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	Not Sampled	Kitchen – pot filler faucet – not working	
002	22390100-002KF22A	Kitchen – pot filler sprayer	<b>39.3</b>
003	22390100-003KF22A	Kitchen – north prep sink faucet	<b>16.5</b>
004	22390100-004KF22A	Kitchen – north prep sink sprayer	4.82
005	22390100-005WB22A	Cafeteria water bottle filler	3.23
006	22390100-006DW22A	Cafeteria drinking fountain - left	3.53

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
007	22390100-007DW22A	Cafeteria, drinking fountain - right	4.55
014	22390100-014BF22A	Front hall – ADA restroom sink faucet	2.70
015	22390100-015BF22A	Staff room, staff restroom sink faucet	1.59

ND = no lead detected

Please refer to the attached fixture location drawing and 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.

Sampling methodology and the interpretation of laboratory results were based on the Environmental Protection Agency guidance document titled *3Ts for Reducing Lead in Drinking Water in Schools*. Following this guideline, PBS collected first draw samples from each test location. First draw samples consist of the first 250 milliliters (mL) of water drawn from a fixture after the water has been sitting stagnant for at least 8 hours. The 3Ts' sampling protocol specifying 250-mL samples is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified.

Please feel free to contact me at 503.515.4726 or voeller@pbsusa.com with any questions or comments.

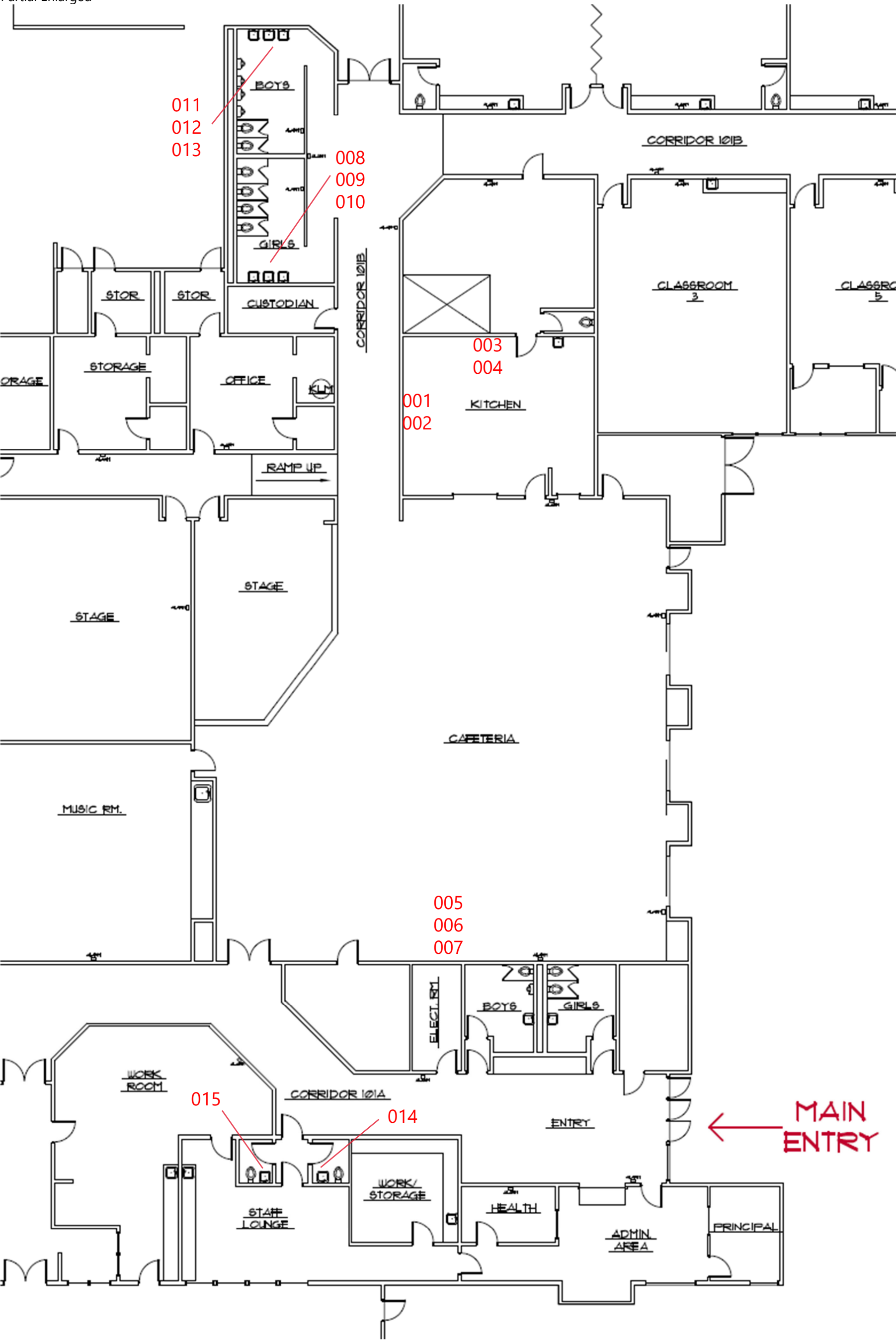
Sincerely,

Dale Voeller, CHMM, CSP  
Senior Project Manager

Attachments: Fixture Location Drawing  
Laboratory Analytical Report

Lenox ES  
Partial Enlarged

10/27/2022  
Lenox Elementary School  
Partial Fixture Location Drawing





ANALYTICAL REPORT

**Apex Laboratories, LLC**

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

Tuesday, October 25, 2022

Dale Voeller

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

RE: A2J0411 - Hillsboro School District - Lenox ES/23440.166/0006

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 A2J0411, which was received by the laboratory on 10/11/2022 at 2:03:00PM.

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](mailto: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.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	21.6 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



Apex Laboratories

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Jason Woodcock, Project Manager



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ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave  
Portland, OR 97239

Project: Hillsboro School District

Project Number: Lenox ES/23440.166/0006

Project Manager: Dale Voeller

Report ID:

A2J0411 - 10 25 22 1152

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390100-002KF22A	A2J0411-01	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-003KF22A	A2J0411-02	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-004KF22A	A2J0411-03	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-005WB22A	A2J0411-04	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-006DW22A	A2J0411-05	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-007DW22A	A2J0411-06	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-014BF22A	A2J0411-07	Drinking Water	10/07/22 00:00	10/11/22 14:03
22390100-015BF22A	A2J0411-08	Drinking Water	10/07/22 00:00	10/11/22 14:03

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**PBS Engineering and Environmental**  
4412 S Corbett Ave  
Portland, OR 97239Project: **Hillsboro School District**  
Project Number: **Lenox ES/23440.166/0006**  
Project Manager: **Dale Voeller****Report ID:**  
**A2J0411 - 10 25 22 1152****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
22390100-002KF22A (A2J0411-01)				Matrix: Drinking Water				
Batch: 22J0828								
Lead	39.3	---	0.222	ug/L	1	10/21/22 09:03	EPA 200.8	DW-D
22390100-003KF22A (A2J0411-02)				Matrix: Drinking Water				
Batch: 22J0828								
Lead	16.5	---	0.222	ug/L	1	10/21/22 09:20	EPA 200.8	DW-D
22390100-004KF22A (A2J0411-03)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	4.82	---	0.200	ug/L	1	10/20/22 22:43	EPA 200.8	
22390100-005WB22A (A2J0411-04)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	3.23	---	0.200	ug/L	1	10/20/22 22:47	EPA 200.8	
22390100-006DW22A (A2J0411-05)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	3.53	---	0.200	ug/L	1	10/20/22 22:51	EPA 200.8	
22390100-007DW22A (A2J0411-06)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	4.55	---	0.200	ug/L	1	10/20/22 22:55	EPA 200.8	
22390100-014BF22A (A2J0411-07)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	2.70	---	0.200	ug/L	1	10/20/22 22:59	EPA 200.8	
22390100-015BF22A (A2J0411-08)				Matrix: Drinking Water				
Batch: 22J0727								
Lead	1.59	---	0.200	ug/L	1	10/20/22 23:03	EPA 200.8	

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Project Manager: **Dale Voeller**

**Report ID:**  
**A2J0411 - 10 25 22 1152**

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 22J0727 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22J0727-BLK1)		Prepared: 10/18/22 15:00			Analyzed: 10/20/22 22:10							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22J0727-BS1)		Prepared: 10/18/22 15:00			Analyzed: 10/20/22 22:13							
EPA 200.8												
Lead	16.0	---	0.201	ug/L	1	15.0	---	106	85 - 115%	---	---	
Batch 22J0828 - EPA 3015A							Drinking Water					
Blank (22J0828-BLK1)		Prepared: 10/20/22 13:56			Analyzed: 10/21/22 07:35							
EPA 200.8												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	
LCS (22J0828-BS1)		Prepared: 10/20/22 13:56			Analyzed: 10/21/22 07:40							
EPA 200.8												
Lead	16.2	---	0.222	ug/L	1	16.7	---	97	85 - 115%	---	---	

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503-718-2323

ORELAP ID: OR100062

**PBS Engineering and Environmental**4412 S Corbett Ave  
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Lenox ES/23440.166/0006**Project Manager: **Dale Voeller****Report ID:****A2J0411 - 10 25 22 1152****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: 22J0727</u>							
A2J0411-03	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00
A2J0411-04	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00
A2J0411-05	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00
A2J0411-06	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00
A2J0411-07	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00
A2J0411-08	Drinking Water	EPA 200.8	10/07/22 00:00	10/18/22 15:00	10mL/10mL	10mL/10mL	1.00

**Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22J0828</u>							
A2J0411-01	Drinking Water	EPA 200.8	10/07/22 00:00	10/20/22 13:56	45mL/50mL	10mL/10mL	1.11
A2J0411-02	Drinking Water	EPA 200.8	10/07/22 00:00	10/20/22 13:56	45mL/50mL	10mL/10mL	1.11

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Project Number: Lenox ES/23440.166/0006

Project Manager: Dale Voeller

Report ID:

A2J0411 - 10 25 22 1152

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.

Apex Laboratories

Jason Woodcock, Project Manager

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**PBS Engineering and Environmental**

4412 S Corbett Ave  
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Lenox ES/23440.166/0006**

Project Manager: **Dale Voeller**

**Report ID:**

**A2J0411 - 10 25 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.

Apex Laboratories

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Project: **Hillsboro School District**

Project Number: **Lenox ES/23440.166/0006**

Project Manager: **Dale Voeller**

**Report ID:**

**A2J0411 - 10 25 22 1152**

### 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
--------	----------	--------	---------	--------	---------------

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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Project Number: **Lenox ES/23440.166/0006**

Project Manager: **Dale Voeller**

**Report ID:**

**A2J0411 - 10 25 22 1152**

## Lead in Drinking Water Testing Program

Date Collected: 10/07/2022

PBS Project: 23440.166 / 0006

School Name: Lenox Elementary School

Building: Main Building

Building Number: 22390100

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com

Turnaround Time: 10-day

	Fixture Number	Sample Number	Location / Description
1	001		
2	002	22390100-002KF22A	Kitchen – pot filler sprayer
3	003	22390100-003KF22A	Kitchen – north prep sink faucet
4	004	22390100-004KF22A	Kitchen – north prep sink sprayer
5	005	22390100-005WB22A	Cafeteria water bottle filler
6	006	22390100-006DW22A	Cafeteria drinking fountain - left
7	007	22390100-007DW22A	Cafeteria, drinking fountain - right
8	008		
9	009		
10	010		
11	011		
12	012		
13	013		
14	014	22390100-014BF22A	Front hall – ADA restroom sink faucet
15	015	22390100-015BF22A	Staff room, staff restroom sink faucet
16	016		
17	017		
18	018		
19	019		
20	020		

Relinquished By/Signature [Signature]

Date/Time: 10/10/22 @ 1:00 pm

Received By/Signature: [Signature]

Date/Time: 10/11/22 1403

1 of 1

Apex Laboratories

[Signature]

Jason Woodcock, Project Manager

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Report ID:

A2J0411 - 10 25 22 1152

## APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 J0411Project/Project #: Lenox Elementary School / 23440.166/0006

## Delivery Info:

Date/time received: 10/11/22 @ 14:03 By: AJMDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 10/11/22 @ 14:41 By: AJMChain 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>21.6</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>None</u>						
Condition (In/Out):	<u>Out</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking WaterGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 10/11/22 @ 12:16 By: RHPAll samples intact? Yes ☒ No ☐ Comments: \_\_\_\_\_Bottle labels/COCs agree? Yes ☒ No ☐ Comments: \_\_\_\_\_COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: \_\_\_\_\_Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments: \_\_\_\_\_

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

Comments: \_\_\_\_\_

Additional information: \_\_\_\_\_

Labeled by: \_\_\_\_\_ Witness: \_\_\_\_\_ Cooler Inspected by: \_\_\_\_\_

RHPDSSRHP

Form Y-003 R-00 -

Apex Laboratories

Jason Woodcock, Project Manager

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