



January 31, 2023

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

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

Regarding: Revised 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:

Between October 7, 2022, and January 14, 2023, 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 during the initial round of sampling. Those fixtures repaired or replaced and sampled on October 29, 2022.

Fixtures found to have lead levels above 15 ppb were subsequently replaced, some of them several times, and re-sampled. PBS completed five rounds of sampling and collected a total of 27 samples. All samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis.

Fixture number 002, the sprayer on the pot-filler in the kitchen, was removed when the faucet was replaced.

The right sink in the boys NE restroom (fixture number 013) showed a lead concentration of 16.5 ppb after the initial round of testing. Sample analysis after the fixture was replaced showed 14.6 ppb. Since that result was close to the limit of 15 ppb, the stops were replaced as well. The subsequent sample showed a lead concentration of 16.4 ppb. Since further replacement of the supply lines to this fixture would necessitate partial demolition of the wall, the fixture was labeled as non-potable.

Lead concentrations in water samples from all other fixtures tested are now below 15 ppb.

The results of each round of sampling are shown on the following tables. Results over 15 ppb are shown in bold.

Round 1 – October 7, 2022

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	39.3
003	22390100-003KF22A	Kitchen – north prep sink faucet	16.5
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
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

Round 2 – October 29, 2022

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
003	22390100-003KF22A	Kitchen – north prep sink faucet – (after spout replacement)	18.8
008	22390100-008BF22A	Girls NE restroom sink faucets - left	4.70
009	22390100-009BF22A	Girls NE restroom sink faucets - center	13.2
010	22390100-010BF22A	Girls NE restroom sink faucets - right	8.27
011	22390100-011BF22A	Boys NE restroom sink faucets - left	10.5
012	22390100-012BF22A	Boys NE restroom sink faucets - center	10.7
013	22390100-013BF22A	Boys NE restroom sink faucets - right	16.5

Round 3 – November 19, 2022

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390100-001KF22A	Kitchen, pot filler faucet (replaced)	27.8
002	22390100-002KF22B	Kitchen, pot filler sprayer (replaced)	35.7
003	22390100-003KF22C	Kitchen – north prep sink faucet (faucet replaced)	16.0
013	22390100-013BF22B	Boys NE restroom sink faucet – right (faucet replaced)	14.6

Round 4 – December 17, 2022

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390100-001KF22B	Kitchen, pot filler faucet (replaced fixture and supply lines) - first draw	23.7
002	22390100-001KF22C	Kitchen, pot filler faucet (replaced) -flush	0.426

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
003	22390100-003KF22D	Kitchen – north prep sink faucet (faucet replaced again) – first draw	1.39
003	22390100-003KF22E	Kitchen – north prep sink faucet (faucet replaced again) – flush	ND
004	22390100-004KF22B	Kitchen – north prep sink sprayer (sprayer replaced)	0.646
013	22390100-013BF22C	Boys NE restroom sink faucet – right (faucet and stops replaced)	16.4

Round 5 – January 14, 2022

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390100-001KF23A	Kitchen, pot filler faucet (replaced; again) -first draw	1.79
001	22390100-001KF23B	Kitchen, pot filler faucet (replaced; again) -flush	ND

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.

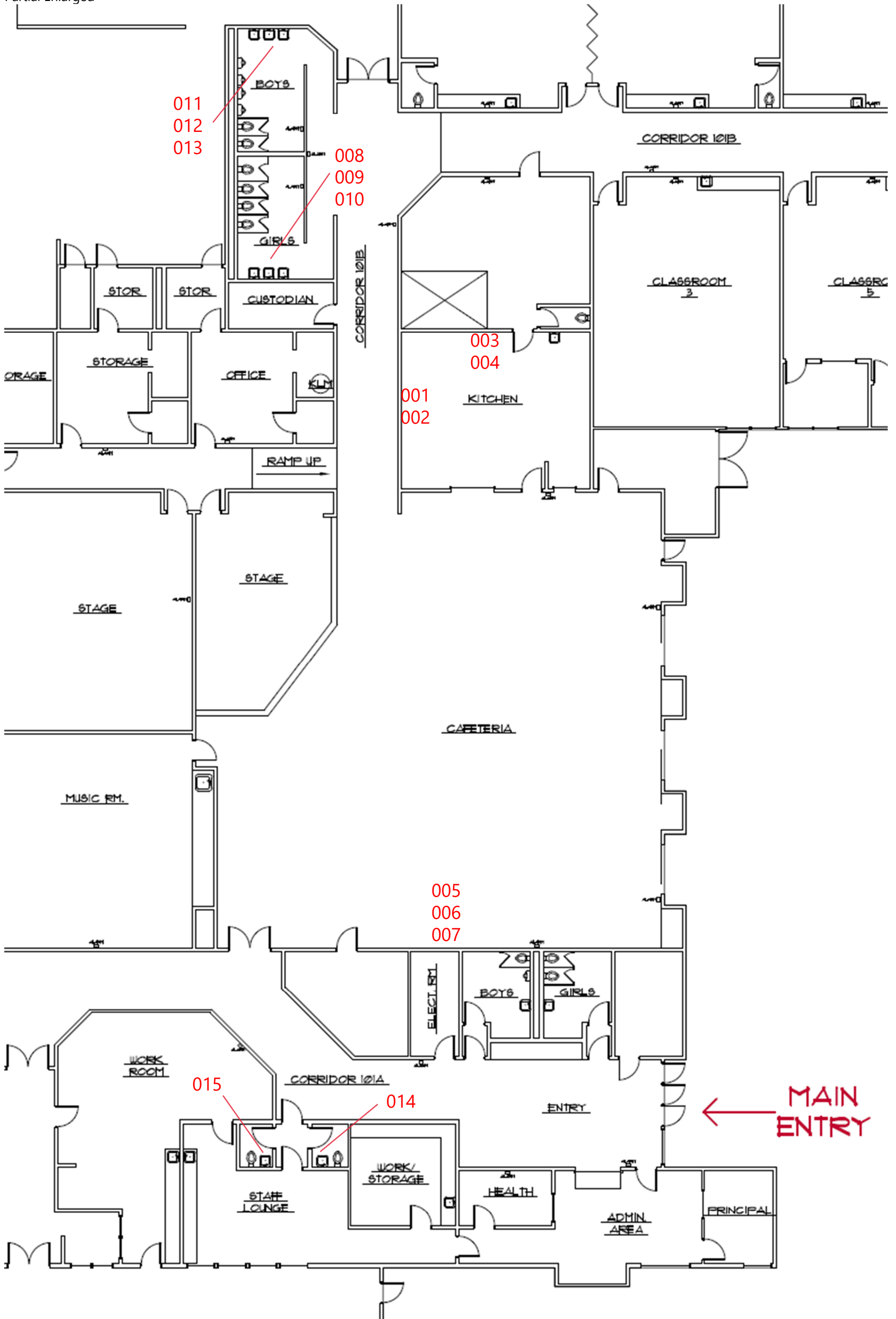
Sincerely,

Dale Voeller, CHMM, CSP
 Senior Project Manager

Attachments: Fixture Location Drawing
 Laboratory Analytical Report

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

Lenox ES
Partial Enlarged





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, 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	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



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>Hillsboro School District</u> Project Number: Lenox ES/23440.166/0006 Project Manager: Dale Voeller	Report ID: A2J0411 - 10 25 22 1152
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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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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				
<u>Batch: 22J0828</u>								
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				
<u>Batch: 22J0828</u>								
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				
<u>Batch: 22J0727</u>								
Lead	4.82	---	0.200	ug/L	1	10/20/22 22:43	EPA 200.8	
22390100-005WB22A (A2J0411-04)				Matrix: Drinking Water				
<u>Batch: 22J0727</u>								
Lead	3.23	---	0.200	ug/L	1	10/20/22 22:47	EPA 200.8	
22390100-006DW22A (A2J0411-05)				Matrix: Drinking Water				
<u>Batch: 22J0727</u>								
Lead	3.53	---	0.200	ug/L	1	10/20/22 22:51	EPA 200.8	
22390100-007DW22A (A2J0411-06)				Matrix: Drinking Water				
<u>Batch: 22J0727</u>								
Lead	4.55	---	0.200	ug/L	1	10/20/22 22:55	EPA 200.8	
22390100-014BF22A (A2J0411-07)				Matrix: Drinking Water				
<u>Batch: 22J0727</u>								
Lead	2.70	---	0.200	ug/L	1	10/20/22 22:59	EPA 200.8	
22390100-015BF22A (A2J0411-08)				Matrix: Drinking Water				
<u>Batch: 22J0727</u>								
Lead	1.59	---	0.200	ug/L	1	10/20/22 23:03	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 22J0727 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22J0727-BLK1)		Prepared: 10/18/22 15:00 Analyzed: 10/20/22 22:10										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22J0727-BS1)		Prepared: 10/18/22 15:00 Analyzed: 10/20/22 22:13										
<u>EPA 200.8</u>												
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										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (22J0828-BS1)		Prepared: 10/20/22 13:56 Analyzed: 10/21/22 07:40										
<u>EPA 200.8</u>												
Lead	16.2	---	0.222	ug/L	1	16.7	---	97	85 - 115%	---	---	---

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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

<u>Prep: EPA 200.8 Direct Analysis</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	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

<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	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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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

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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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.

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Jason Woodcock, Project Manager



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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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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 J0411

Project/Project #: Lenox Elementary School / 23440.166/0006

Delivery Info:
 Date/time received: 10/11/22@14:03 By: AJM
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/11/22@14:41 By: AJM
 Chain of Custody included? Yes No Custody seals? Yes No
 Signed/dated by client? Yes No
 Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>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 Water
 Green 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: RHP
 All 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: RHP Witness: DSS Cooler Inspected by: RHP Form Y-003 R-00

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Jason Woodcock, Project Manager



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Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Friday, November 11, 2022

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

RE: A2K0060 - 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 A2K0060, which was received by the laboratory on 10/31/2022 at 12:25:00PM.

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	19.3 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



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>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0060 - 11 11 22 1114
---	--	---

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390100-003KF22B	A2K0060-01	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-008BF22A	A2K0060-02	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-009BF22A	A2K0060-03	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-010BF22A	A2K0060-04	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-011BF22A	A2K0060-05	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-012BF22A	A2K0060-06	Drinking Water	10/29/22 00:00	10/31/22 12:25
22390100-013BF22A	A2K0060-07	Drinking Water	10/29/22 00:00	10/31/22 12:25

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0060 - 11 11 22 1114
--	---	---

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
22390100-003KF22B (A2K0060-01)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	18.8	---	0.200	ug/L	1	11/03/22 19:41	EPA 200.8	
22390100-008BF22A (A2K0060-02)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	4.70	---	0.200	ug/L	1	11/03/22 19:45	EPA 200.8	
22390100-009BF22A (A2K0060-03)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	13.2	---	0.200	ug/L	1	11/03/22 19:49	EPA 200.8	
22390100-010BF22A (A2K0060-04)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	8.27	---	0.200	ug/L	1	11/03/22 19:53	EPA 200.8	
22390100-011BF22A (A2K0060-05)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	10.5	---	0.200	ug/L	1	11/03/22 19:57	EPA 200.8	
22390100-012BF22A (A2K0060-06)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	10.7	---	0.200	ug/L	1	11/03/22 20:01	EPA 200.8	
22390100-013BF22A (A2K0060-07)				Matrix: Drinking Water				
Batch: 22K0094								
Lead	16.5	---	0.200	ug/L	1	11/03/22 20:05	EPA 200.8	

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Jason Woodcock, Project Manager

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 503-718-2323
 ORELAP ID: OR100062

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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 22K0094 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22K0094-BLK1)		Prepared: 11/02/22 16:42 Analyzed: 11/03/22 19:04										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22K0094-BS1)		Prepared: 11/02/22 16:42 Analyzed: 11/03/22 19:07										
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	---	102	85 - 115%	---	---	---

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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: 22K0094</u>							
A2K0060-01	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-02	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-03	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-04	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-05	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-06	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00
A2K0060-07	Drinking Water	EPA 200.8	10/29/22 00:00	11/02/22 16:42	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0060 - 11 11 22 1114
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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



ANALYTICAL REPORT

Apex Laboratories, LLC

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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

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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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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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>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0060 - 11 11 22 1114
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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
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Jason Woodcock, Project Manager

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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: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0060 - 11 11 22 1114
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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 K0060

Project/Project #: Lenox Elementary school- Round 2 23440166/0006

Delivery Info:
 Date/time received: 10/31/22 @ 1225 By: EST
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/31/22 @ 1310 By: EST

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.3</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>NA</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: 11/1/22 @ 17:28 By: RHP

All 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: RHP Witness: DSS Cooler Inspected by: RHP Form Y-003 R-00

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Monday, December 5, 2022

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

RE: A2K0767 - 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 A2K0767, which was received by the laboratory on 11/21/2022 at 2:40:00PM.

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	19.1 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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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0767 - 12 05 22 1645
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390100-001KF22A	A2K0767-01	Drinking Water	11/19/22 00:00	11/21/22 14:40
22390100-002KF22B	A2K0767-02	Drinking Water	11/19/22 00:00	11/21/22 14:40
22390100-003KF22C	A2K0767-03	Drinking Water	11/19/22 00:00	11/21/22 14:40
22390100-013BF22B	A2K0767-04	Drinking Water	11/19/22 00:00	11/21/22 14:40

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0767 - 12 05 22 1645
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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
22390100-001KF22A (A2K0767-01)				Matrix: Drinking Water				
<u>Batch: 22K0827</u>								
Lead	27.8	---	0.200	ug/L	1	11/28/22 14:02	EPA 200.8	
22390100-002KF22B (A2K0767-02)				Matrix: Drinking Water				
<u>Batch: 22K0827</u>								
Lead	35.7	---	0.200	ug/L	1	11/28/22 14:06	EPA 200.8	
22390100-003KF22C (A2K0767-03)				Matrix: Drinking Water				
<u>Batch: 22L0033</u>								
Lead	16.0	---	0.222	ug/L	1	12/01/22 23:12	EPA 200.8	DW-D
22390100-013BF22B (A2K0767-04)				Matrix: Drinking Water				
<u>Batch: 22K0827</u>								
Lead	14.6	---	0.200	ug/L	1	11/28/22 14:11	EPA 200.8	

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0767 - 12 05 22 1645
--	---	---

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 22K0827 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22K0827-BLK1)		Prepared: 11/22/22 08:16 Analyzed: 11/28/22 13:05										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22K0827-BS1)		Prepared: 11/22/22 08:16 Analyzed: 11/28/22 13:08										
<u>EPA 200.8</u>												
Lead	15.9	---	0.201	ug/L	1	15.0	---	106	85 - 115%	---	---	---
Batch 22L0033 - EPA 3015A						Drinking Water						
Blank (22L0033-BLK1)		Prepared: 12/01/22 12:30 Analyzed: 12/01/22 23:01										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (22L0033-BS1)		Prepared: 12/01/22 12:30 Analyzed: 12/01/22 23:07										
<u>EPA 200.8</u>												
Lead	17.4	---	0.222	ug/L	1	16.7	---	105	85 - 115%	---	---	---
Duplicate (22L0033-DUP1)		Prepared: 12/01/22 12:30 Analyzed: 12/01/22 23:17										
<u>QC Source Sample: 22390100-003KF22C (A2K0767-03)</u>												
<u>EPA 200.8</u>												
Lead	16.0	---	0.222	ug/L	1	---	16.0	---	---	0.5	20%	DW-D
Matrix Spike (22L0033-MS1)		Prepared: 12/01/22 12:30 Analyzed: 12/01/22 23:23										
<u>QC Source Sample: 22390100-003KF22C (A2K0767-03)</u>												
<u>EPA 200.8</u>												
Lead	32.7	---	0.222	ug/L	1	16.7	16.0	100	70 - 130%	---	---	DW-D

Apex Laboratories

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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
ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0767 - 12 05 22 1645
---	--	---

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

<u>Prep: EPA 200.8 Direct Analysis</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22K0827</u>							
A2K0767-01	Drinking Water	EPA 200.8	11/19/22 00:00	11/22/22 08:16	10mL/10mL	10mL/10mL	1.00
A2K0767-02	Drinking Water	EPA 200.8	11/19/22 00:00	11/22/22 08:16	10mL/10mL	10mL/10mL	1.00
A2K0767-04	Drinking Water	EPA 200.8	11/19/22 00:00	11/22/22 08:16	10mL/10mL	10mL/10mL	1.00
<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L0033</u>							
A2K0767-03	Drinking Water	EPA 200.8	11/19/22 00:00	12/01/22 12:30	45mL/50mL	10mL/10mL	1.11

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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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Lenox ES), and Report ID (A2K0767 - 12 05 22 1645).

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.

Apex Laboratories

Handwritten signature of Jason Woodcock

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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> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2K0767 - 12 05 22 1645
---	--	---

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 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Jason Woodcock, Project Manager



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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

Jason Woodcock, Project Manager

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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
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u>	Project: <u>Lenox ES</u>	
4412 S Corbett Ave	Project Number: 23440.166/0006	Report ID:
Portland, OR 97239	Project Manager: Dale Voeller	A2K0767 - 12 05 22 1645

A2K0767

Lead in Drinking Water Testing Program

Date Collected: 11/19/2022 PBS Project: 23440.166 / 0006

School Name: Lenox Elementary School – Round 3

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	22390100-001KF22A Kitchen, pot filler faucet (replaced)
2	002	22390100-002KF22B Kitchen, pot filler sprayer (replaced)
3	003	22390100-003KF22C Kitchen – north prep sink faucet (faucet replaced)
4	013	22390100-013BF22B Boys NE restroom sink faucet – right
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Relinquished By/Signature: *Dale Voeller* Date/Time: 11/21/22 @ 12:10 PM

Received By/Signature: *[Signature]* Date/Time: 11/21/22 @ 1440

1 of 1

Apex Laboratories

Jason Woodcock, Project Manager

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PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239
Project: Lenox ES
Project Number: 23440.166/0006
Project Manager: Dale Voeller
Report ID: A2K0767 - 12 05 22 1645

APEXLABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2K0767

Project/Project #: Lenox Elementary School - Round 3 / 23440.166 / 0006

Delivery Info:

Date/time received: 11/21/22 @ 1440 By: AJM

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

Cooler Inspection Date/time inspected: 11/21/22 @ 1501 By: AJM

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7

Temperature (°C) 19.1

Received on ice? (Y/N) N

Temp. blanks? (Y/N) N

Ice type: (Gel/Real/Other) None

Condition (In/Out): Out

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: 11/21/22 @ 16:33 By: JAM

All 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: JAM Witness: RVP Cooler Inspected by: JAM

Form Y-003 R-00

Apex Laboratories

Signature of Jason Woodcock

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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

Wednesday, December 21, 2022

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

RE: A2L0735 - 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 A2L0735, which was received by the laboratory on 12/19/2022 at 11:55:00AM.

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	17.1 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



ANALYTICAL REPORT

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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2L0735 - 12 21 22 1518
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390100-001KF22B	A2L0735-01	Drinking Water	12/17/22 00:00	12/19/22 11:55
22390100-001KF22C	A2L0735-02	Drinking Water	12/17/22 00:00	12/19/22 11:55
22390100-003KF22D	A2L0735-03	Drinking Water	12/17/22 00:00	12/19/22 11:55
22390100-003KF22E	A2L0735-04	Drinking Water	12/17/22 00:00	12/19/22 11:55
22390100-004KF22B	A2L0735-05	Drinking Water	12/17/22 00:00	12/19/22 11:55
22390100-013BF22C	A2L0735-06	Drinking Water	12/17/22 00:00	12/19/22 11:55

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2L0735 - 12 21 22 1518
--	---	---

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
22390100-001KF22B (A2L0735-01)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	23.7	---	0.200	ug/L	1	12/19/22 23:30	EPA 200.8	
22390100-001KF22C (A2L0735-02)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	0.426	---	0.200	ug/L	1	12/19/22 23:42	EPA 200.8	
22390100-003KF22D (A2L0735-03)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	1.39	---	0.200	ug/L	1	12/19/22 23:53	EPA 200.8	
22390100-003KF22E (A2L0735-04)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	ND	---	0.200	ug/L	1	12/19/22 23:58	EPA 200.8	
22390100-004KF22B (A2L0735-05)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	0.646	---	0.200	ug/L	1	12/20/22 00:01	EPA 200.8	
22390100-013BF22C (A2L0735-06)				Matrix: Drinking Water				
<u>Batch: 22L0681</u>								
Lead	16.4	---	0.200	ug/L	1	12/20/22 00:04	EPA 200.8	

Apex Laboratories

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166/0006 Project Manager: Dale Voeller	Report ID: A2L0735 - 12 21 22 1518
--	---	---

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 22L0681 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0681-BLK1)		Prepared: 12/19/22 15:40 Analyzed: 12/19/22 23:22										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L0681-BS1)		Prepared: 12/19/22 15:40 Analyzed: 12/19/22 23:25										
<u>EPA 200.8</u>												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Duplicate (22L0681-DUP1)		Prepared: 12/19/22 15:40 Analyzed: 12/19/22 23:34										
<u>QC Source Sample: 22390100-001KF22B (A2L0735-01)</u>												
<u>EPA 200.8</u>												
Lead	23.8	---	0.200	ug/L	1	---	23.7	---	---	0.3	20%	---
Matrix Spike (22L0681-MS1)		Prepared: 12/19/22 15:40 Analyzed: 12/19/22 23:38										
<u>QC Source Sample: 22390100-001KF22B (A2L0735-01)</u>												
<u>EPA 200.8</u>												
Lead	39.1	---	0.201	ug/L	1	15.0	23.7	103	70 - 130%	---	---	---

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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: 22L0681</u>							
A2L0735-01	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00
A2L0735-02	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00
A2L0735-03	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00
A2L0735-04	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00
A2L0735-05	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00
A2L0735-06	Drinking Water	EPA 200.8	12/17/22 00:00	12/19/22 15:40	10mL/10mL	10mL/10mL	1.00

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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

Apex Laboratories

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ANALYTICAL REPORT

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REPORTING NOTES AND CONVENTIONS:

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The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
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For further details, please request a copy of this document.

Apex Laboratories

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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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.

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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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Lenox ES), and Report ID (A2L0735 - 12 21 22 1518).

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

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation. Includes a note: 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

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Apex Laboratories

Handwritten signature of Jason Woodcock

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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: Lenox ES
Project Number: 23440.166/0006
Project Manager: Dale Voeller
Report ID: A2L0735 - 12 21 22 1518

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2 L0735

Project/Project #: Lenox Elementary School - Round 4 / 23440.166/0006

Delivery Info:

Date/time received: 12-19-22 11:55 AM @ 11:55 By: AJM

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

Cooler Inspection Date/time inspected: 12-19-22 @ 12:26 By: AJM

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (°C), Received on ice? (Y/N), Temp. blanks? (Y/N), Ice type: (Gel/Real/Other), Condition (In/Out).

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: 12/19/22 @ 13:17 By: AJM

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA

Comments:

Additional information:

Labeled by: Witness: Cooler Inspected by: Form Y-003 R-00

Handwritten signature of Jason Woodcock



ANALYTICAL REPORT

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

Friday, January 27, 2023
Dale Voeller
PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239

RE: A3A0658 - Lenox ES - 23440.166

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 A3A0658, which was received by the laboratory on 1/17/2023 at 1:10:00PM.

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)

Default Cooler 19.2 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.



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

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390100-001KF23A	A3A0658-01	Drinking Water	01/14/23 00:00	01/17/23 13:10
22390100-001KF23B	A3A0658-02	Drinking Water	01/14/23 00:00	01/17/23 13:10

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Jason Woodcock, Project Manager



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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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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
22390100-001KF23A (A3A0658-01)				Matrix: Drinking Water				
<u>Batch: 23A0859</u>								
Lead	1.79	---	0.222	ug/L	1	01/24/23 21:33	EPA 200.8	DW-D
22390100-001KF23B (A3A0658-02)				Matrix: Drinking Water				
<u>Batch: 23A0731</u>								
Lead	ND	---	0.200	ug/L	1	01/24/23 15:27	EPA 200.8	

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Jason Woodcock, Project Manager

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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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 23A0731 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23A0731-BLK1)		Prepared: 01/20/23 09:51 Analyzed: 01/24/23 15:19										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23A0731-BS1)		Prepared: 01/20/23 09:51 Analyzed: 01/24/23 15:22										
<u>EPA 200.8</u>												
Lead	15.7	---	0.201	ug/L	1	15.0	---	105	85 - 115%	---	---	---
Duplicate (23A0731-DUP1)		Prepared: 01/20/23 09:51 Analyzed: 01/24/23 15:30										
<u>QC Source Sample: 22390100-001KF23B (A3A0658-02)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	0.167	---	---	***	20%	---
Matrix Spike (23A0731-MS1)		Prepared: 01/20/23 09:51 Analyzed: 01/24/23 15:33										
<u>QC Source Sample: 22390100-001KF23B (A3A0658-02)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	0.167	104	70 - 130%	---	---	---
Batch 23A0859 - EPA 3015A						Drinking Water						
Blank (23A0859-BLK1)		Prepared: 01/24/23 10:28 Analyzed: 01/24/23 21:18										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (23A0859-BS1)		Prepared: 01/24/23 10:28 Analyzed: 01/24/23 21:23										
<u>EPA 200.8</u>												
Lead	16.8	---	0.222	ug/L	1	16.7	---	101	85 - 115%	---	---	---

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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

<u>Prep: EPA 200.8 Direct Analysis</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A0731</u>							
A3A0658-02	Drinking Water	EPA 200.8	01/14/23 00:00	01/20/23 09:51	10mL/10mL	10mL/10mL	1.00
<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A0859</u>							
A3A0658-01	Drinking Water	EPA 200.8	01/14/23 00:00	01/24/23 10:28	45mL/50mL	10mL/10mL	1.11

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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166 Project Manager: Dale Voeller	<u>Report ID:</u> A3A0658 - 01 27 23 1527
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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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Jason Woodcock, Project Manager



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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
---	---	---

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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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Lenox ES</u> Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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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.

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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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Lenox ES), and Report ID (A3A0658 - 01 27 23 1527).

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

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation. Includes a note: 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

Handwritten signature of Jason Woodcock

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: OR100062

PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239
Project: Lenox ES
Project Number: 23440.166
Project Manager: Dale Voeller
Report ID: A3A0658 - 01 27 23 1527

A3A0658

Lead in Drinking Water Testing Program

Date Collected: 01/14/23
School Name: Lenox Elementary School - Round 5
Building: Main Building
Analysis Requested: Lead (Pb) in Drinking Water
Email Results To: voeller@pbsusa.com
Turnaround Time: 10-day

Table with 4 columns: Fixture Number, Sample Number, Location / Description. Rows 1-20.

Relinquished By/Signature [Signature] Date/Time: 1/16/23 @ 4:29 PM
Received By/Signature [Signature] Date/Time: 1/17/23 1310

[Signature]



ANALYTICAL REPORT

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Lenox ES Project Number: 23440.166 Project Manager: Dale Voeller	Report ID: A3A0658 - 01 27 23 1527
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APEX LABS COOLER RECEIPT FORM

Client: PBS - PORTLAND Element WO#: A3A0658

Project/Project #: Lenox Elementary School - Round 5
23440.166

Delivery Info:
Date/time received: 1/17/23 @ 1310 By: SAT

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 1/17/23 @ 1355 By: SAT

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.2</u>						
Custody seals? (Y/N)	<u>N</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: 1/17/23 @ 11:12 By: RAM

All 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: RAM Witness: DJS Cooler Inspected by: RAM

Form Y-003 R-00

Apex Laboratories

Jason Woodcock, Project Manager

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