December 12, 2024

Will Wenzloff
Hillsboro School District
4901 SE Witch Hazel Road
Hillsboro, Oregon 97123

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

Regarding: Drinking Water Sampling Report
Peter Boscow Campus – Main Building and Barnes Gym
425 NE 3rd Avenue
Hillsboro, OR 97124
PBS Project 23440.191 / 0002

Dear Mr. Wenzloff:

On May 18, 2024, PBS Engineering and Environmental LLC (PBS) performed drinking water sampling in the main building and Barnes Gym at the Peter Boscow Campus 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 building remain below the Oregon Department of Education (ODE) action level of 15 parts per billion (ppb).

Twenty-four samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon for lead analysis. The sample from the drinking fountain near the girls restroom at the north end of the main floor lobby in Barnes Gym (Fixture 002) showed a lead concentration of 15.8 ppb. All other samples analyzed below 15 ppb of lead. The following tables list the results of the analysis.

Main Building

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22393500-001DW24A	North side, north restroom drinking fountain at stainless steel sink	6.25
002	22393500-002BF24A	North side, north restroom sink faucet at stainless steel sink	0.244
003	22393500-003BF24A	North side, north restroom bathroom sink faucet	ND
004	22393500-004BF24A	North side, south restroom bathroom sink faucet	ND
005	22393500-005KF24A	North side, kitchen, sink faucet	ND
006	22393500-006SF24A	North side, physical therapy room, sink faucet	1.18
007	22393500-007BF24A	South side, north restroom sink faucet	0.559
008	22393500-008WB24A	South side, common area water bottle filler	ND
009	22393500-009DW24A	South side, common area drinking fountain	ND
010	22393500-010DW24A	South side, East “Purple” classroom, drinking fountain	0.618
011	22393500-011SF24A	South side, East “Purple” classroom, sink faucet	ND
012	22393500-012BF24A	South side, south restroom sink faucet	0.300

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
013	22393500-013BF24A	Break room in boiler building, restroom sink faucet	2.14

ND = no lead detected

Barnes Gym

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22393501-001BF24A	North lobby, womens restroom sink faucet	1.16
002	22393501-002DW24A	North lobby, drinking fountain at womens restroom (shut off)	**15.8**
003	22393501-003WB24A	Gym, NE corner, water bottle filler	1.98
004	22393501-004DW24A	Gym, NE corner, drinking fountain	3.14
005	22393501-005BF24A	ADA restroom at north ramp entrance, restroom sink faucet	0.437
006	22393501-006DW24A	Gym, SE corner, drinking fountain	8.00
007	22393501-007DW24A	South lobby, drinking fountain at mens restroom (shut off)	10.5
008	22393501-008BF24A	South lobby, mens restroom sink faucet	1.22
009	22393501-009CF24A	Basement boxing gym, utility sink faucet at south wall	3.69
010	22393501-010DW24A	Basement boxing gym, drinking fountain at east wall	0.965
011		Girls locker room, drinking fountain near restroom (shut off)	
012		Girls restroom sink faucet (shut off)	
013		Boys locker room, drinking fountain near restroom (shut off)	
014	22393501-014BF24A	Boys locker room, restroom sink faucet	7.09

ND = no lead detected

The drinking fountain near the girls restroom at the north end of the main floor lobby in Barnes Gym showed a lead concentration of 15.8 ppb, slightly above the 15 ppb limit. Since this was an older fixture, and a new drinking fountain is located close by, the fixture was permanently shut off. Three fixtures in the basement locker rooms at Barnes Gym were previously shut off when the locker rooms were converted to storage areas.

Please refer to the attached sample location drawings and laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter (µg/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.

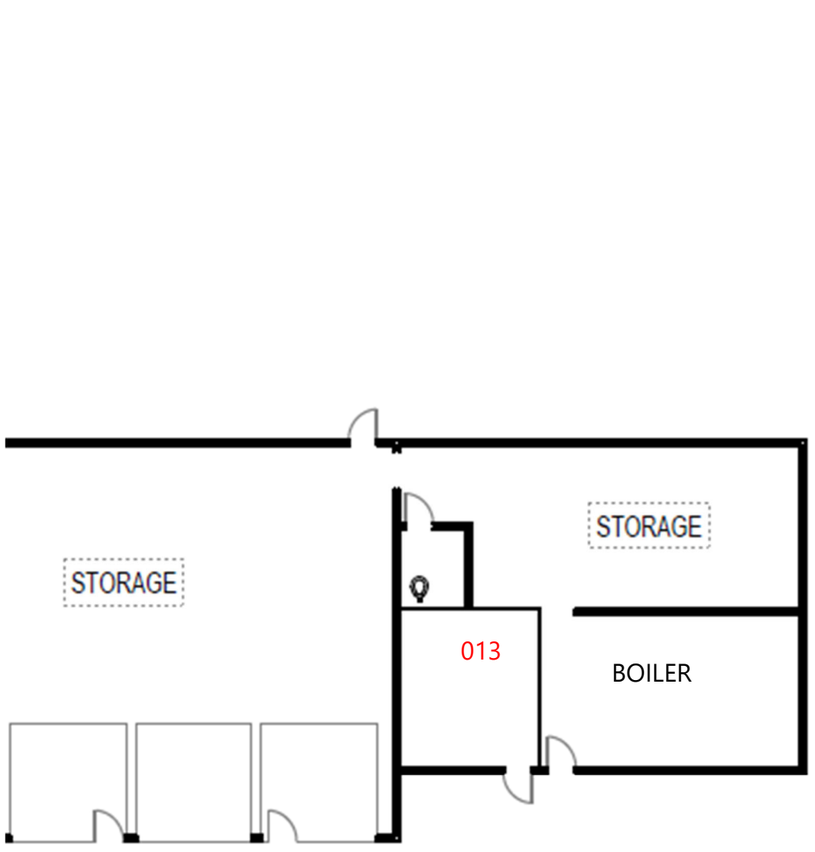
Sincerely,

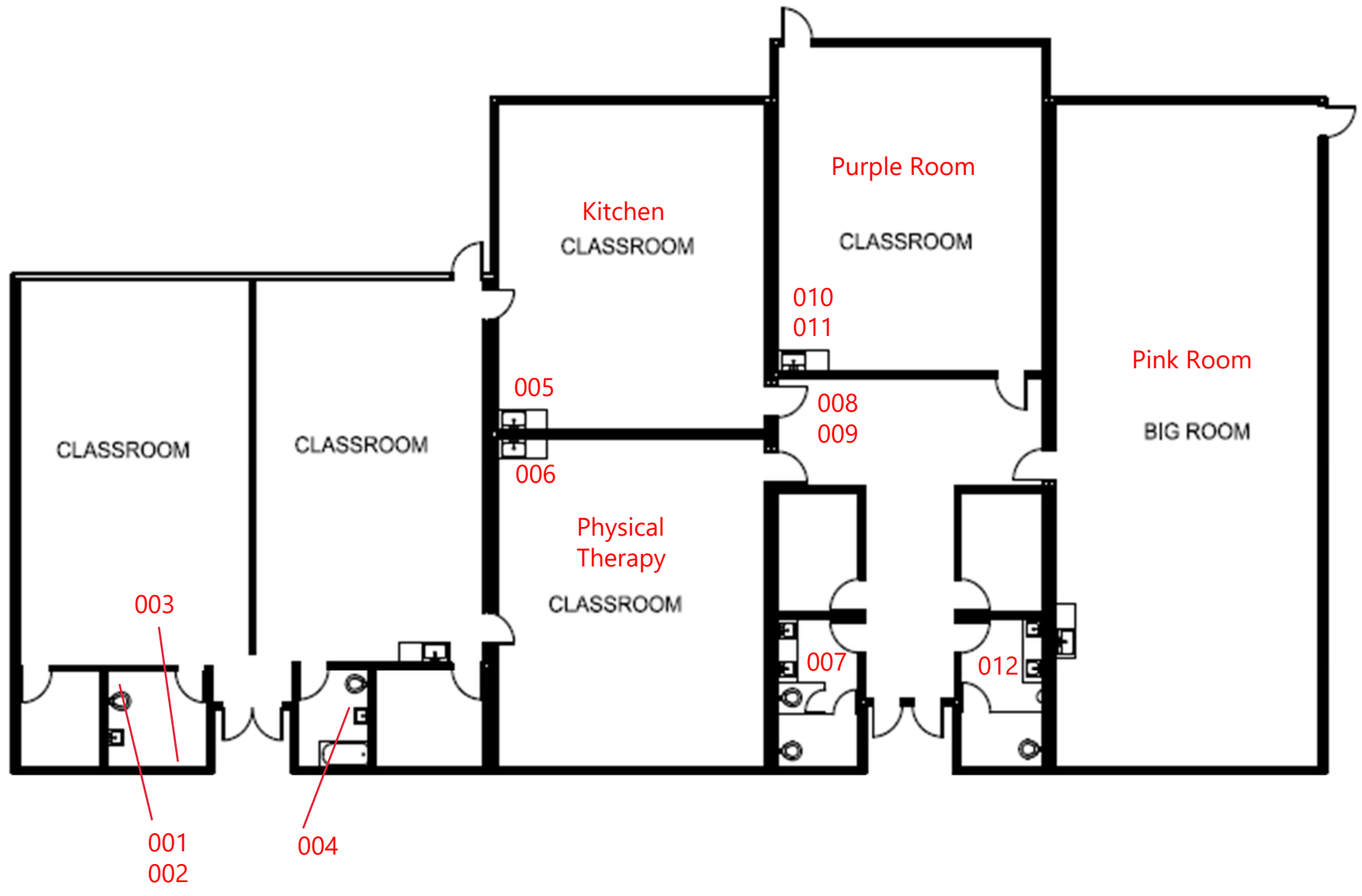
Digitally signed by Dale Voeller, CHMM, CSP
Date: 2024.12.30 15:31:40 -08'00'

Dale Voeller, CHMM, CSP
Senior Project Manager

Attachments: Sample Location Drawings
Laboratory Analytical Report

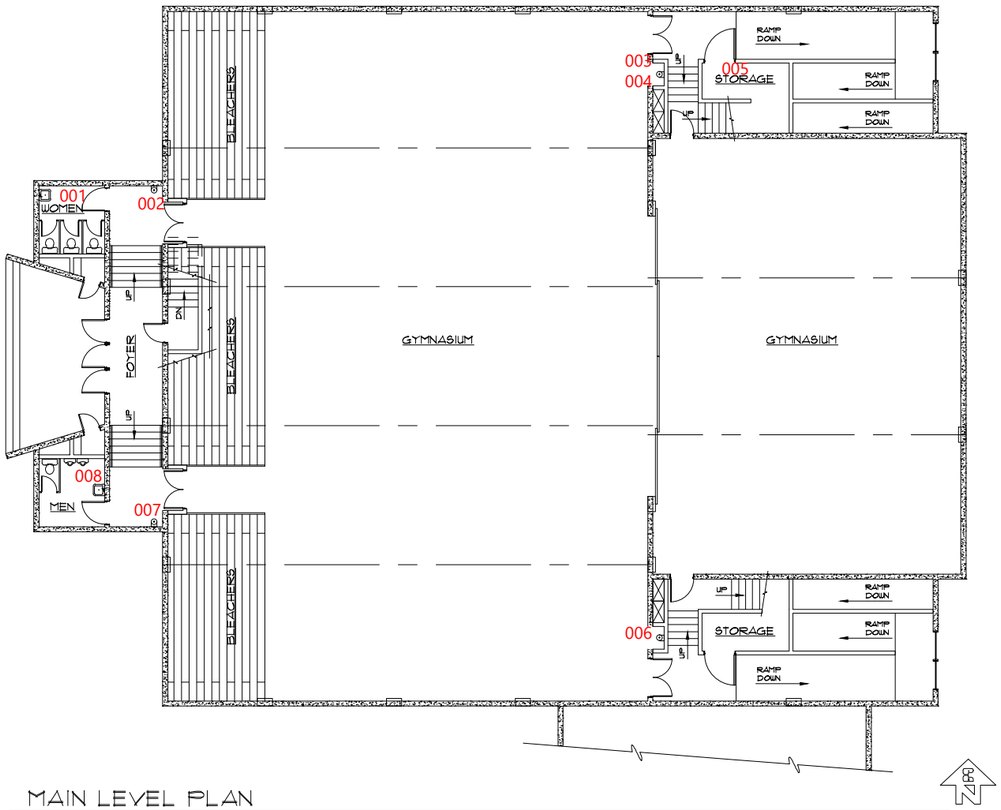
Peter Boscow Campus
Main Building
Fixture Location Drawing
December 2024





North

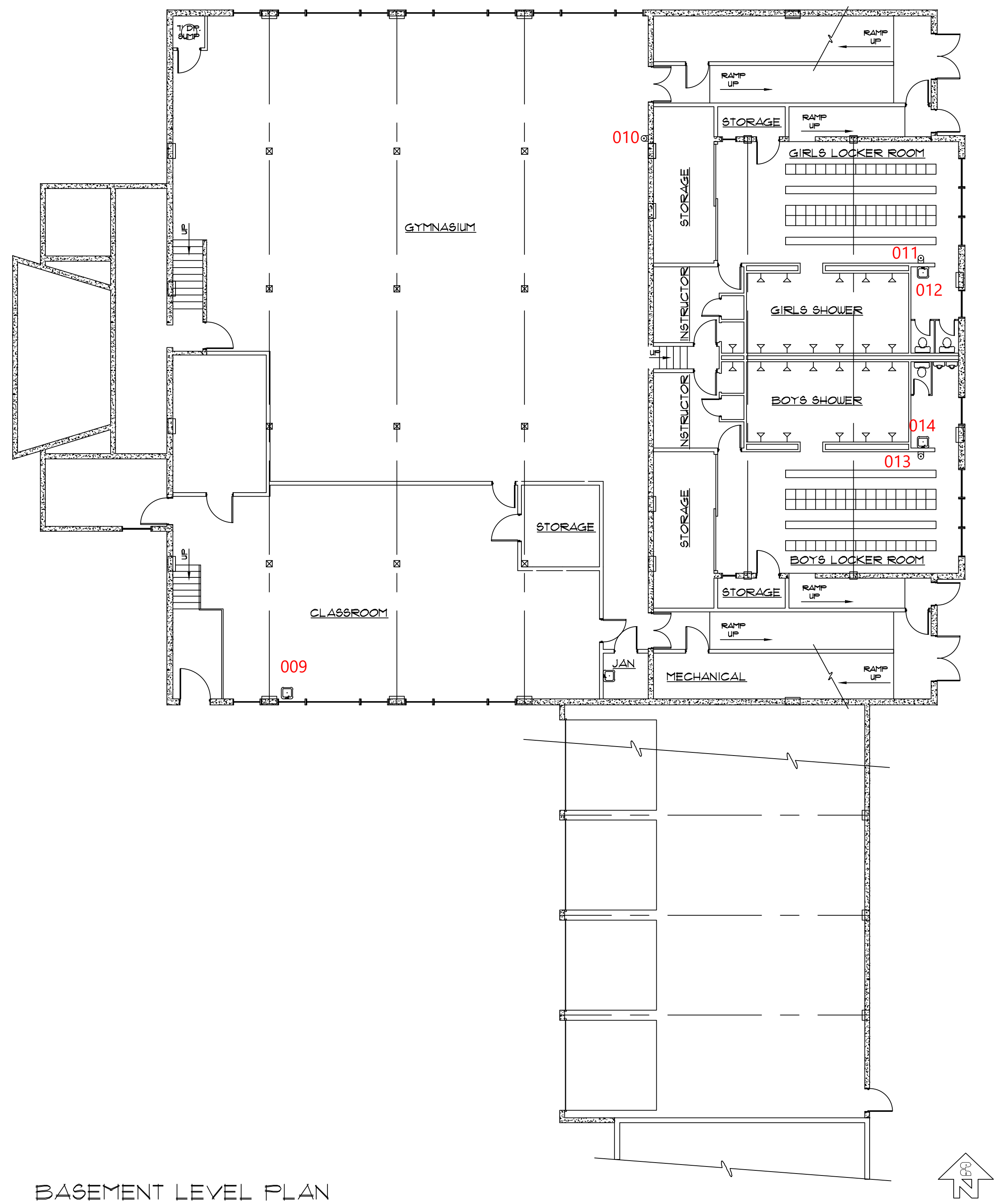
Barnes Gym - Main Floor
Fixture Location Drawing
December 2024



MAIN LEVEL PLAN

SCALE: 1/8" = 1'-0"

Barnes Gym - Basement
Fixture Location Drawing
December 2024



BASEMENT LEVEL PLAN
SCALE: 1/8" = 1'-0"

Laboratory Analytical Results

Peter Boscow – Main Building

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

ANALYTICAL REPORT

Monday, June 3, 2024

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

RE: A4E1528 - Hillsboro School District - Peter Boscow Campus/23440.191

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 A4E1528, which was received by the laboratory on 5/21/2024 at 1:08:00PM.

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		
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.		
(See Cooler Receipt Form for details)		
Default Cooler	17.1	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.

Apex Laboratories

Jason Woodcock, Project Manager

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

ANALYTICAL REPORT

PBS Engineering and Environmental	Project: **Hillsboro School District**	
4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1528 - 06 03 24 1235**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393500-001DW24A	A4E1528-01	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-002BF24A	A4E1528-02	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-003BF24A	A4E1528-03	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-004BF24A	A4E1528-04	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-005KF24A	A4E1528-05	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-006SF24A	A4E1528-06	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-007BF24A	A4E1528-07	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-008WB24A	A4E1528-08	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-009DW24A	A4E1528-09	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-010DW24A	A4E1528-10	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-011SF24A	A4E1528-11	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-012BF24A	A4E1528-12	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393500-013BF24A	A4E1528-13	Drinking Water	05/18/24 00:00	05/21/24 13:08

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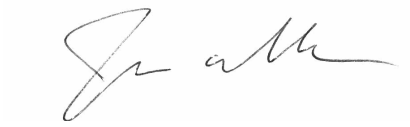

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1528 - 06 03 24 1235**

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
22393500-001DW24A (A4E1528-01)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**6.25**	---	0.200	ug/L	1	05/29/24 11:29	EPA 200.8	
22393500-002BF24A (A4E1528-02)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**0.244**	---	0.200	ug/L	1	05/29/24 11:35	EPA 200.8	
22393500-003BF24A (A4E1528-03)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 11:36	EPA 200.8	
22393500-004BF24A (A4E1528-04)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 11:38	EPA 200.8	
22393500-005KF24A (A4E1528-05)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 11:40	EPA 200.8	
22393500-006SF24A (A4E1528-06)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**1.18**	---	0.200	ug/L	1	05/29/24 11:41	EPA 200.8	
22393500-007BF24A (A4E1528-07RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**0.559**	---	0.200	ug/L	1	05/29/24 12:39	EPA 200.8	
22393500-008WB24A (A4E1528-08RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 12:40	EPA 200.8	
22393500-009DW24A (A4E1528-09RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 12:42	EPA 200.8	

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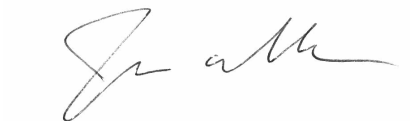

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

PBS Engineering and Environmental	Project: **Hillsboro School District**	
4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1528 - 06 03 24 1235**

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
22393500-010DW24A (A4E1528-10RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**0.618**	---	0.200	ug/L	1	05/29/24 12:44	EPA 200.8	
22393500-011SF24A (A4E1528-11RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	ND	---	0.200	ug/L	1	05/29/24 12:45	EPA 200.8	
22393500-012BF24A (A4E1528-12RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**0.300**	---	0.200	ug/L	1	05/29/24 12:47	EPA 200.8	
22393500-013BF24A (A4E1528-13RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**2.14**	---	0.200	ug/L	1	05/29/24 12:49	EPA 200.8	

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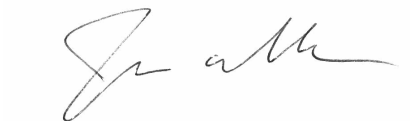

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ORELAP ID: OR100062

ANALYTICAL REPORT

PBS Engineering and Environmental	Project: Hillsboro School District	
4412 S Corbett Ave	Project Number: Peter Boscow Campus/2344	Report ID:
Portland, OR 97239	Project Manager: Dale Voeller	A4E1528 - 06 03 24 1235

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 24E0889 - EPA 200.8 Direct Analysis											Drinking Water	
Blank (24E0889-BLK1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:26								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0889-BS1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:28								
EPA 200.8												
Lead	14.0	---	0.201	ug/L	1	15.0	---	93	85 - 115%	---	---	
Duplicate (24E0889-DUP1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:31								
QC Source Sample: 22393500-001DW24A (A4E1528-01)												
EPA 200.8												
Lead	**6.18**	---	0.200	ug/L	1	---	6.25	---	---	1	20%	
Matrix Spike (24E0889-MS1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:33								
QC Source Sample: 22393500-001DW24A (A4E1528-01)												
EPA 200.8												
Lead	19.8	---	0.201	ug/L	1	15.0	6.25	91	70 - 130%	---	---	

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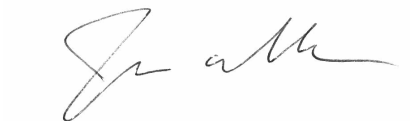

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ANALYTICAL REPORT

PBS Engineering and Environmental	Project: **Hillsboro School District**	
4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1528 - 06 03 24 1235**

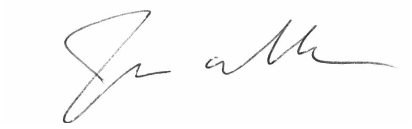
SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0889							
A4E1528-01	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-02	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-03	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-04	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-05	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-06	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-07RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-08RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-09RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-10RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-11RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-12RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1528-13RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00

Apex Laboratories



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Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

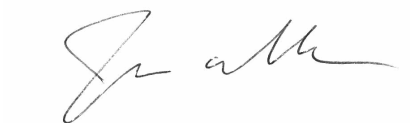
PBS Engineering and Environmental	Project:	**Hillsboro School District**	
4412 S Corbett Ave	Project Number:	**Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager:	**Dale Voeller**	**A4E1528 - 06 03 24 1235**

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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4412 S Corbett Ave	Project Number:	**Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager:	**Dale Voeller**	**A4E1528 - 06 03 24 1235**

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:

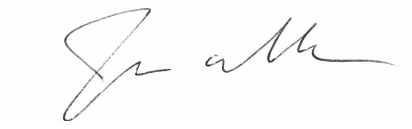
" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " 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 one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories



Jason Woodcock, Project Manager

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

PBS Engineering and Environmental	Project:	**Hillsboro School District**	
4412 S Corbett Ave	Project Number:	**Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager:	**Dale Voeller**	**A4E1528 - 06 03 24 1235**

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.

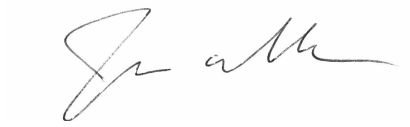
Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

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.

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentraton of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

Apex Laboratories



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Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1528 - 06 03 24 1235**

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.

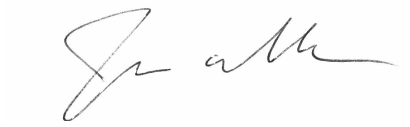
Subcontract Laboratory Accreditations

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories



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A4E1528

Lead in Drinking Water Testing Program

Date Collected: 05/18/2024 PBS Project: 23440.191 / 0002

School Name: Peter Boscow Campus – Round 1

Building: Main Building Building Number: 22393500

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	001	22393500-001DW24A	North side, north restroom drinking fountain at stainless steel sink
2	002	22393500-002BF24A	North side, north restroom sink faucet at stainless steel sink
3	003	22393500-003BF24A	North side, north restroom bathroom sink faucet
4	004	22393500-004BF24A	North side, south restroom bathroom sink faucet
5	005	22393500-005KF24A	North side, kitchen, sink faucet
6	006	22393500-006SF24A	North side, physical therapy room, sink faucet
7	007	22393500-007BF24A	South side, north restroom sink faucet
8	008	22393500-008WB24A	South side, common area water bottle filler
9	009	22393500-009DW24A	South side, common area drinking fountain
10	010	22393500-010DW24A	South side, East "Purple" classroom, drinking fountain
11	011	22393500-011SF24A	South side, East "Purple" classroom, sink faucet
12	012	22393500-012BF24A	South side, south restroom sink faucet
13	013	22393500-013BF24A	Break room in boiler building, restroom sink faucet
14	014		
15	015		
16	016		
17	017		
18	018		
19	019		
20	020		

Relinquished By/Signature [signature] Date/Time: 5/20/24

Received By/Signature: [signature] APEX LABS Date/Time: 5/21/24 1308

1 of 1

Apex Laboratories

[signature]

Jason Woodcock, Project Manager

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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4 E1528

Project/Project #: Peter Boscow Campus - Round 1 Main Building 23440.191/0002

Delivery Info:

Date/time received: 5/21/24 @ 1308 By: EST

Delivered by: Apex X Client__ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes ___ No X

Cooler Inspection Date/time inspected: 5/21/24 @ 1336 By: EST

Chain of Custody included? Yes X No ___

Signed/dated by client? Yes X No ___

Contains USDA Reg. Soils? Yes ___ No X Unsure (email RegSoils) ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	17.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	NA						
Condition (In/Out):	OUT						

Cooler out of temp? (Y/N) [Y circled] Possible reason why: Drinking waters

Green dots applied to out of temperature samples? Yes/No [No circled]

Out of temperature samples form initiated? Yes/No [No circled]

Sample Inspection: Date/time inspected: 5/23/24 @ 1213 By: ADW

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes ___ No X Comments: 22393500-002BF24A cont. ID reads 22393500-00BFF24A

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___ pH ID: AC3I172

Comments: ___

Labeled by: ADW Witness: [initials] Cooler Inspected by: ADW

Form Y-003 R-02

Laboratory Analytical Results

Barnes Gym

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

ANALYTICAL REPORT

Monday, June 3, 2024

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

RE: A4E1542 - Hillsboro School District - Peter Boscow Campus/23440.191

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 A4E1542, which was received by the laboratory on 5/21/2024 at 1:08:00PM.

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
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 17.1 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.

Apex Laboratories

Jason Woodcock, Project Manager

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PBS Engineering and Environmental	Project: **Hillsboro School District**	
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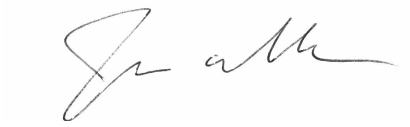
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1542 - 06 03 24 1238**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22393501-001BF24A	A4E1542-01	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-002DW24A	A4E1542-02	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-003WB24A	A4E1542-03	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-004DW24A	A4E1542-04	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-005BF24A	A4E1542-05	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-006DW24A	A4E1542-06	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-007DW24A	A4E1542-07	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-008BF24A	A4E1542-08	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-009CF24A	A4E1542-09	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-010DW24A	A4E1542-10	Drinking Water	05/18/24 00:00	05/21/24 13:08
22393501-014BF24A	A4E1542-11	Drinking Water	05/18/24 00:00	05/21/24 13:08

Apex Laboratories



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ANALYTICAL REPORT

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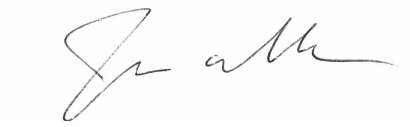
4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1542 - 06 03 24 1238**

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
22393501-001BF24A (A4E1542-01RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**1.16**	---	0.200	ug/L	1	05/29/24 12:51	EPA 200.8	
22393501-002DW24A (A4E1542-02RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**15.8**	---	0.200	ug/L	1	05/29/24 12:52	EPA 200.8	
22393501-003WB24A (A4E1542-03RE1)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**1.98**	---	0.200	ug/L	1	05/29/24 12:54	EPA 200.8	
22393501-004DW24A (A4E1542-04)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**3.14**	---	0.200	ug/L	1	05/29/24 12:59	EPA 200.8	
22393501-005BF24A (A4E1542-05)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**0.437**	---	0.200	ug/L	1	05/29/24 13:01	EPA 200.8	
22393501-006DW24A (A4E1542-06)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**8.00**	---	0.200	ug/L	1	05/29/24 13:02	EPA 200.8	
22393501-007DW24A (A4E1542-07)				**Matrix: Drinking Water**				
Batch: 24E0889								
Lead	**10.5**	---	0.200	ug/L	1	05/29/24 13:04	EPA 200.8	
22393501-008BF24A (A4E1542-08)				**Matrix: Drinking Water**				
Batch: 24E0890								
Lead	**1.22**	---	0.200	ug/L	1	05/29/24 11:08	EPA 200.8	
22393501-009CF24A (A4E1542-09)				**Matrix: Drinking Water**				
Batch: 24E0890								
Lead	**3.69**	---	0.200	ug/L	1	05/29/24 11:10	EPA 200.8	

Apex Laboratories



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4412 S Corbett Ave	Project Number: **Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager: **Dale Voeller**	**A4E1542 - 06 03 24 1238**

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
22393501-010DW24A (A4E1542-10)				**Matrix: Drinking Water**				
Batch: 24E0890								
Lead	**0.965**	---	0.200	ug/L	1	05/29/24 11:12	EPA 200.8	
22393501-014BF24A (A4E1542-11)				**Matrix: Drinking Water**				
Batch: 24E0890								
Lead	**7.09**	---	0.200	ug/L	1	05/29/24 11:13	EPA 200.8	

Apex Laboratories

Jason Woodcock, Project Manager

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APEX LABORATORIES

Apex Laboratories, LLC

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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 24E0889 - EPA 200.8 Direct Analysis											**Drinking Water**	
Blank (24E0889-BLK1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:26								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0889-BS1)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 11:28								
EPA 200.8												
Lead	14.0	---	0.201	ug/L	1	15.0	---	93	85 - 115%	---	---	
Matrix Spike (24E0889-MS2)		Prepared: 05/24/24 08:25		Analyzed: 05/29/24 13:06								
QC Source Sample: 22393501-007DW24A (A4E1542-07)												
EPA 200.8												
Lead	24.9	---	0.201	ug/L	1	15.0	10.5	96	70 - 130%	---	---	
Batch 24E0890 - EPA 200.8 Direct Analysis											**Drinking Water**	
Blank (24E0890-BLK1)		Prepared: 05/24/24 08:27		Analyzed: 05/29/24 11:05								
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (24E0890-BS1)		Prepared: 05/24/24 08:27		Analyzed: 05/29/24 11:07								
EPA 200.8												
Lead	17.0	---	0.201	ug/L	1	15.0	---	113	85 - 115%	---	---	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Jason Woodcock, Project Manager

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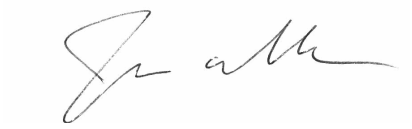
SAMPLE PREPARATION INFORMATION

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
Batch: 24E0889							
A4E1542-01RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-02RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-03RE1	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-04	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-05	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-06	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
A4E1542-07	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:25	10mL/10mL	10mL/10mL	1.00
Batch: 24E0890							
A4E1542-08	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:27	10mL/10mL	10mL/10mL	1.00
A4E1542-09	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:27	10mL/10mL	10mL/10mL	1.00
A4E1542-10	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:27	10mL/10mL	10mL/10mL	1.00
A4E1542-11	Drinking Water	EPA 200.8	05/18/24 00:00	05/24/24 08:27	10mL/10mL	10mL/10mL	1.00

Apex Laboratories



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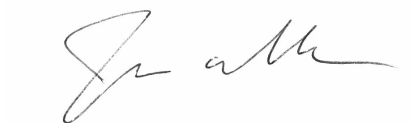
4412 S Corbett Ave	Project Number:	**Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager:	**Dale Voeller**	**A4E1542 - 06 03 24 1238**

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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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 one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

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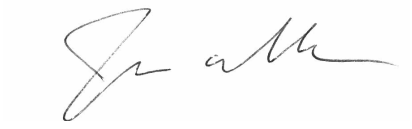

Jason Woodcock, Project Manager

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

PBS Engineering and Environmental	Project:	**Hillsboro School District**	
4412 S Corbett Ave	Project Number:	**Peter Boscow Campus/2344**	**Report ID:**
Portland, OR 97239	Project Manager:	**Dale Voeller**	**A4E1542 - 06 03 24 1238**

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.

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentraton of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

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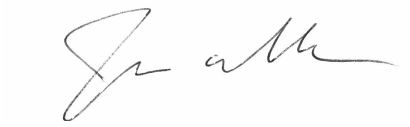

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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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

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.

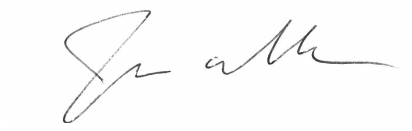
Subcontract Laboratory Accreditations

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories



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A4E1542

Lead in Drinking Water Testing Program

Date Collected: 05/18/2024

PBS Project: 23440.191 / 0002

School Name: Peter Boscow Campus

Building: Barnes Gym – Round 1

Building Number: 22393501

Analysis Requested: Lead (Pb) in Drinking Water

Email Results To: voeller@pbsusa.com

Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	001	22393501-001BF24A	North lobby, womens restroom sink faucet
2	002	22393501-002DW24A	North lobby, drinking fountain at womens restroom
3	003	22393501-003WB24A	Gym, NE corner, water bottle filler
4	004	22393501-004DW24A	Gym, NE corner, drinking fountain
5	005	22393501-005BF24A	ADA restroom at north ramp entrance, restroom sink faucet
6	006	22393501-006DW24A	Gym, SE corner, drinking fountain
7	007	22393501-007DW24A	South lobby, drinking fountain at mens restroom
8	008	22393501-008BF24A	South lobby, mens restroom sink faucet
9	009	22393501-009CF24A	Basement boxing gym, utility sink faucet at south wall
10	010	22393501-010DW24A	Basement boxing gym, drinking fountain at east wall
11	011		Girls locker room, drinking fountain near restroom (not working)
12	012		Girls restroom sink faucet (not working)
13	013		Boys locker room, drinking fountain near restroom (not working)
14	014	22393501-014BF24A	Boys locker room, restroom sink faucet
15	015		
16	016		
17	017		
18	018		
19	019		
20	020		

Relinquished By/Signature: [signature] Date/Time: 5/20/24

Received By/Signature: [signature] APEX LABS Date/Time: 5/21/24 1308

1 of 1

Apex Laboratories

[signature]

Jason Woodcock, Project Manager

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APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4E1542

Project/Project #: Peter Boscow Campus Barnes Gym 23440.191/0002

Delivery Info:

Date/time received: 5/21/24 @ 1308 By: EST

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

From USDA Regulated Origin? Yes ____ No X

Cooler Inspection Date/time inspected: 5/21/24 @ 1336 By: EST

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

Contains USDA Reg. Soils? Yes ____ No X Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	17.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	NA						
Condition (In/Out):	OUT						

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

Green dots applied to out of temperature samples? Yes (No)

Out of temperature samples form initiated? Yes (No) APK for KAM 5/23/24

Sample Inspection: Date/time inspected: ~~5/23/24~~ 5/23/24 @ 14:53 By: KAM

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 X pH appropriate? Yes X No ___ NA X pH ID: A23I172

Comments: KAM 5/24 KAM 5/24

Labeled by: KAM Witness: MN Cooler Inspected by: KAM

Form Y-003 R-02

Apex Laboratories

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Jason Woodcock, Project Manager