



March 27, 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
HSD Administration Center
3083 NE 49th Place
Hillsboro, OR 97124
PBS Project 23440.190 / 0001

Dear Mr. Wenzloff:

On March 9, 2024, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Hillsboro School District Administration Center 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-eight samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon for lead analysis. All samples analyzed below 15 ppb of lead. The following table lists the results of the analysis.

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22390000-001SF24A	First Floor; Board Conference Room, sink faucet	0.248
002	22390000-002KF24A	First Floor; Kitchen/Lunchroom, sink faucet	ND
003	22390000-003IM24A	First Floor; Kitchen/Lunchroom, ice machine	0.340
004	22390000-004WC24A	First Floor; Kitchen/Lunchroom, water cooler	ND
005	22390000-005OT24A	First Floor; Kitchen/Lunchroom, instant hot water tap	ND
006	22390000-006DW24A	First Floor; Hallway, drinking fountain - left	ND
007	22390000-007DW24A	First Floor; Hallway, drinking fountain - right	0.200
008	22390000-008BF24A	First Floor; Gender Neutral Restroom sink, left to right (1)	0.523
009	22390000-009BF24A	First Floor; Gender Neutral Restroom sink, left to right (2)	0.822
010	22390000-010BF24A	First Floor; Gender Neutral Restroom sink, left to right (3)	1.09
011	22390000-011BF24A	First Floor; Womens Restroom, left to right (1)	ND
012	22390000-012BF24A	First Floor; Womens Restroom, left to right (2)	0.286
013	22390000-013BF24A	First Floor; Womens Restroom, left to right (3)	0.244
014	22390000-014BF24A	First Floor; Womens Restroom, left to right (4)	ND
015	22390000-015BF24A	First Floor; Hallway Gender Neutral/Accessible Restroom sink	ND
016	22390000-016SF24A	First Floor; Print Shop sink faucet	1.14

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
017	22390000-017BF24A	Second Floor; Mens Restroom, left to right (1)	0.812
018	22390000-018BF24A	Second Floor; Mens Restroom, left to right (2)	0.612
019	22390000-019BF24A	Second Floor; Mens Restroom, left to right (3)	0.846
020	22390000-020BF24A	Second Floor; Womens Restroom, left to right (1)	0.637
021	22390000-021BF24A	Second Floor; Womens Restroom, left to right (2)	0.344
022	22390000-022BF24A	Second Floor; Womens Restroom, left to right (3)	0.644
023	22390000-023BF24A	Second Floor; Womens Restroom, left to right (4)	0.249
024	22390000-024DW24A	Second Floor; Hallway, drinking fountain - left	ND
025	22390000-025DW24A	Second Floor; Hallway, drinking fountain - right	ND
026	22390000-026OT24A	Second Floor, Break Room, instant hot water faucet (sink)	ND
027	22390000-027SF24A	Second Floor, Break Room, staff faucet	ND
028	22390000-028OT24A	Second Floor, Break Room, instant hot water faucet	0.335

ND = no lead detected

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 ($\mu\text{g/L}$), 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,

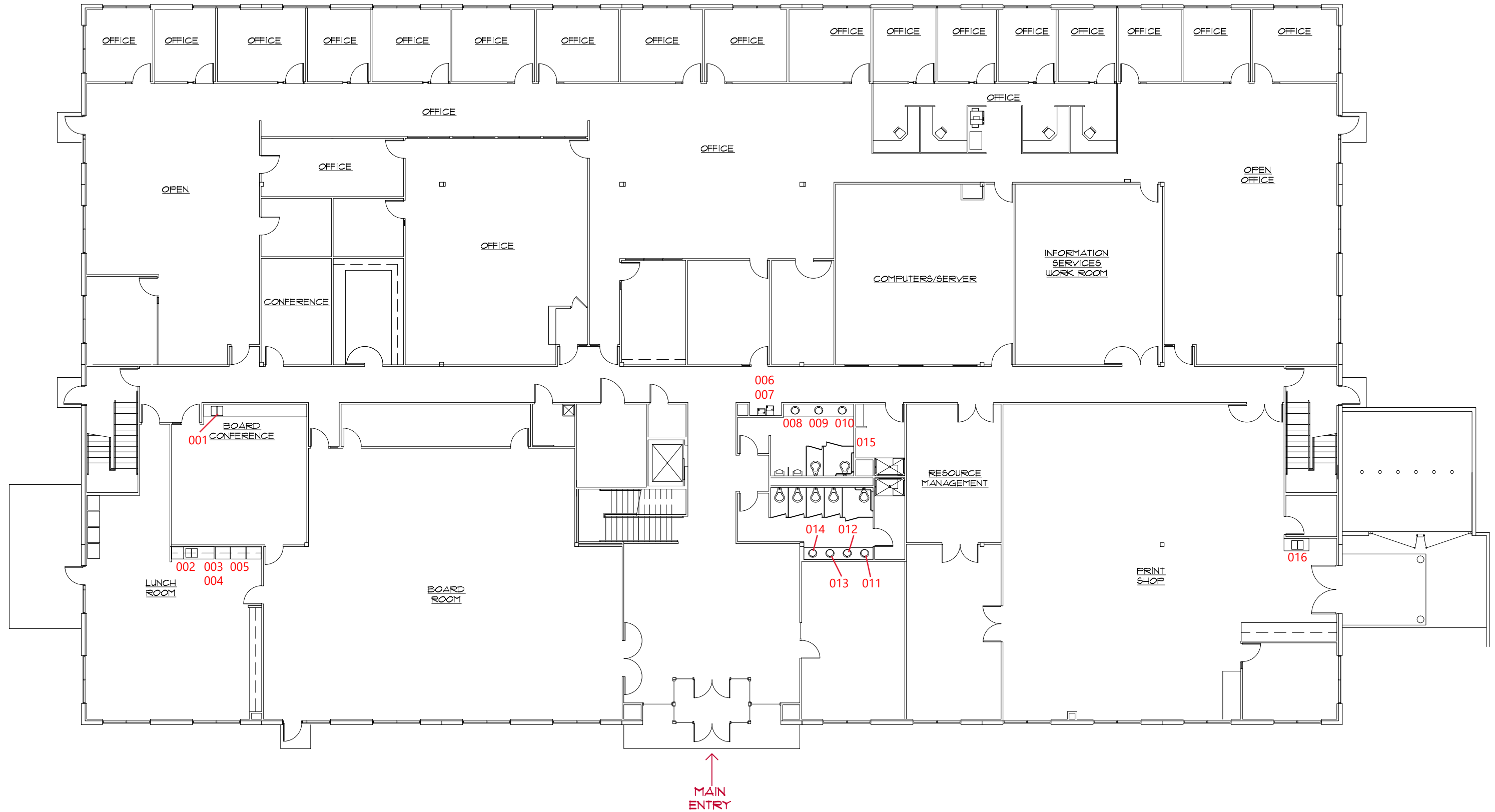
Dale Voeller, CHMM, CSP
Senior Project Manager

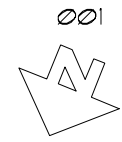
Attachments: Sample Location Drawings
Laboratory Analytical Report



001
ADMINISTRATION
ADMINISTRATION BUILDING
MAIN LEVEL BUILDING PLAN

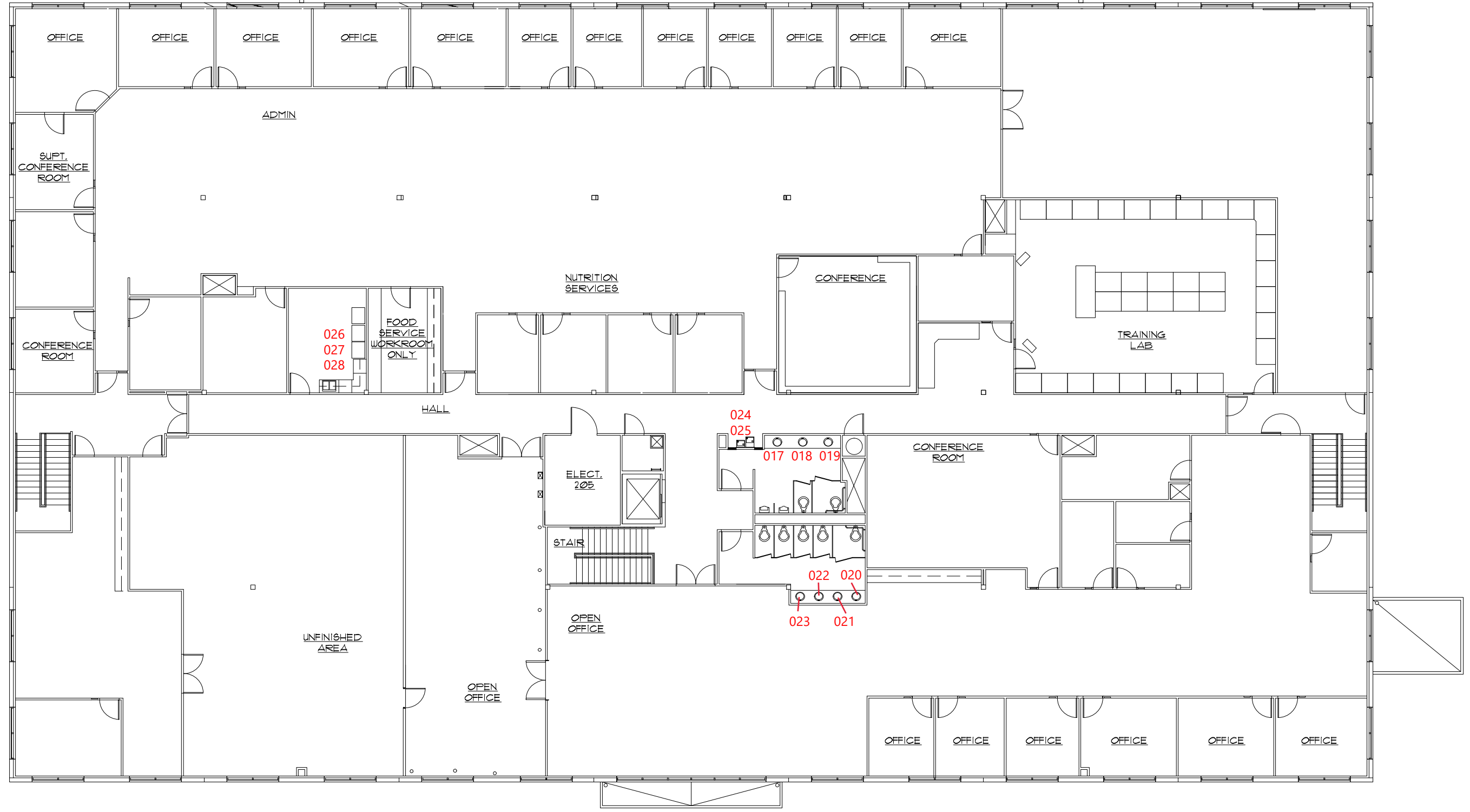
Fixture Location Drawing
March 27, 2024





001
ADMINISTRATION
ADMINISTRATION BUILDING
UPPER LEVEL BUILDING PLAN

Fixture Location Drawing
March 27, 2024





ANALYTICAL REPORT

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

Wednesday, March 27, 2024

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

RE: A4C1246 - Hillsboro School District - Administration Center/23440.190

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 A4C1246, which was received by the laboratory on 3/13/2024 at 12:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: akepa@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		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
<u>Default Cooler</u>	17.2	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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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: Administration Center/2344 Project Manager: Dale Voeller	Report ID: A4C1246 - 03 27 24 1444
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22390000-001SF24A	A4C1246-01	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-002KF24A	A4C1246-02	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-003IM24A	A4C1246-03	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-004WC24A	A4C1246-04	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-005OT24A	A4C1246-05	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-006DW24A	A4C1246-06	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-007DW24A	A4C1246-07	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-008BF24A	A4C1246-08	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-009BF24A	A4C1246-09	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-010BF24A	A4C1246-10	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-011BF24A	A4C1246-11	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-012BF24A	A4C1246-12	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-013BF24A	A4C1246-13	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-014BF24A	A4C1246-14	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-015BF24A	A4C1246-15	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-016SF24A	A4C1246-16	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-017BF24A	A4C1246-17	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-018BF24A	A4C1246-18	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-019BF24A	A4C1246-19	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-020BF24A	A4C1246-20	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-021BF24A	A4C1246-21	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-022BF24A	A4C1246-22	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-023BF24A	A4C1246-23	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-024DW24A	A4C1246-24	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-025DW24A	A4C1246-25	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-026OT24A	A4C1246-26	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-027SF24A	A4C1246-27	Drinking Water	03/09/24 00:00	03/13/24 12:00
22390000-028OT24A	A4C1246-28	Drinking Water	03/09/24 00:00	03/13/24 12:00

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Apex Laboratories, LLC

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

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: Administration Center/2344 Project Manager: Dale Voeller	Report ID: A4C1246 - 03 27 24 1444
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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
22390000-001SF24A (A4C1246-01)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.248	---	0.200	ug/L	1	03/25/24 14:18	EPA 200.8	
22390000-002KF24A (A4C1246-02)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:23	EPA 200.8	
22390000-003IM24A (A4C1246-03)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.340	---	0.200	ug/L	1	03/25/24 14:25	EPA 200.8	
22390000-004WC24A (A4C1246-04)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:27	EPA 200.8	
22390000-005OT24A (A4C1246-05)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:28	EPA 200.8	
22390000-006DW24A (A4C1246-06)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:30	EPA 200.8	
22390000-007DW24A (A4C1246-07)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.200	---	0.200	ug/L	1	03/25/24 14:35	EPA 200.8	
22390000-008BF24A (A4C1246-08)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.523	---	0.200	ug/L	1	03/25/24 14:37	EPA 200.8	
22390000-009BF24A (A4C1246-09)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.822	---	0.200	ug/L	1	03/25/24 14:39	EPA 200.8	

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Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
22390000-010BF24A (A4C1246-10)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	1.09	---	0.200	ug/L	1	03/25/24 14:40	EPA 200.8	
22390000-011BF24A (A4C1246-11)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:42	EPA 200.8	
22390000-012BF24A (A4C1246-12)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.286	---	0.200	ug/L	1	03/25/24 14:44	EPA 200.8	
22390000-013BF24A (A4C1246-13)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.244	---	0.200	ug/L	1	03/25/24 14:45	EPA 200.8	
22390000-014BF24A (A4C1246-14)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:47	EPA 200.8	
22390000-015BF24A (A4C1246-15)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 14:49	EPA 200.8	
22390000-016SF24A (A4C1246-16)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	1.14	---	0.200	ug/L	1	03/25/24 14:50	EPA 200.8	
22390000-017BF24A (A4C1246-17)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.812	---	0.200	ug/L	1	03/25/24 14:55	EPA 200.8	
22390000-018BF24A (A4C1246-18)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.612	---	0.200	ug/L	1	03/25/24 14:57	EPA 200.8	

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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
22390000-019BF24A (A4C1246-19)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.846	---	0.200	ug/L	1	03/25/24 14:59	EPA 200.8	
22390000-020BF24A (A4C1246-20)				Matrix: Drinking Water				
<u>Batch: 24C0499</u>								
Lead	0.637	---	0.200	ug/L	1	03/25/24 15:00	EPA 200.8	
22390000-021BF24A (A4C1246-21)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	0.344	---	0.200	ug/L	1	03/25/24 15:07	EPA 200.8	
22390000-022BF24A (A4C1246-22)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	0.644	---	0.200	ug/L	1	03/25/24 15:16	EPA 200.8	
22390000-023BF24A (A4C1246-23)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	0.249	---	0.200	ug/L	1	03/25/24 15:17	EPA 200.8	
22390000-024DW24A (A4C1246-24)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 15:19	EPA 200.8	
22390000-025DW24A (A4C1246-25)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 15:21	EPA 200.8	
22390000-026OT24A (A4C1246-26)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 15:22	EPA 200.8	
22390000-027SF24A (A4C1246-27)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	ND	---	0.200	ug/L	1	03/25/24 15:24	EPA 200.8	

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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
22390000-028OT24A (A4C1246-28)				Matrix: Drinking Water				
<u>Batch: 24C0500</u>								
Lead	0.335	---	0.200	ug/L	1	03/25/24 15:26	EPA 200.8	

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Anissa Kepa For Jason Woodcock, Project Manager



ANALYTICAL REPORT

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503-718-2323
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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Hillsboro School District Project Number: Administration Center/2344 Project Manager: Dale Voeller	Report ID: A4C1246 - 03 27 24 1444
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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 24C0499 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (24C0499-BLK1)		Prepared: 03/14/24 10:00 Analyzed: 03/25/24 14:15										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (24C0499-BS1)		Prepared: 03/14/24 10:00 Analyzed: 03/25/24 14:17										
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	---	99	85 - 115%	---	---	---
Duplicate (24C0499-DUP1)		Prepared: 03/14/24 10:00 Analyzed: 03/25/24 14:20										
<u>QC Source Sample: 22390000-001SF24A (A4C1246-01)</u>												
<u>EPA 200.8</u>												
Lead	0.214	---	0.200	ug/L	1	---	0.248	---	---	15	20%	---
Matrix Spike (24C0499-MS1)		Prepared: 03/14/24 10:00 Analyzed: 03/25/24 14:22										
<u>QC Source Sample: 22390000-001SF24A (A4C1246-01)</u>												
<u>EPA 200.8</u>												
Lead	14.8	---	0.201	ug/L	1	15.0	0.248	97	70 - 130%	---	---	---
Matrix Spike (24C0499-MS2)		Prepared: 03/14/24 10:00 Analyzed: 03/25/24 15:02										
<u>QC Source Sample: 22390000-020BF24A (A4C1246-20)</u>												
<u>EPA 200.8</u>												
Lead	15.2	---	0.201	ug/L	1	15.0	0.637	97	70 - 130%	---	---	---
Batch 24C0500 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (24C0500-BLK1)		Prepared: 03/14/24 10:03 Analyzed: 03/25/24 15:04										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (24C0500-BS1)		Prepared: 03/14/24 10:03 Analyzed: 03/25/24 15:06										
<u>EPA 200.8</u>												
Lead	14.9	---	0.201	ug/L	1	15.0	---	100	85 - 115%	---	---	---
Duplicate (24C0500-DUP1)		Prepared: 03/14/24 10:03 Analyzed: 03/25/24 15:09										
<u>QC Source Sample: 22390000-021BF24A (A4C1246-21)</u>												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24C0500 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (24C0500-DUP1)		Prepared: 03/14/24 10:03 Analyzed: 03/25/24 15:09										
<u>QC Source Sample: 22390000-021BF24A (A4C1246-21)</u>												
<u>EPA 200.8</u>												
Lead	0.344	---	0.200	ug/L	1	---	0.344	---	---	0.06	20%	
Matrix Spike (24C0500-MS1)						Prepared: 03/14/24 10:03 Analyzed: 03/25/24 15:11						
<u>QC Source Sample: 22390000-021BF24A (A4C1246-21)</u>												
<u>EPA 200.8</u>												
Lead	15.0	---	0.201	ug/L	1	15.0	0.344	98	70 - 130%	---	---	

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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>Hillsboro School District</u> Project Number: Administration Center/2344 Project Manager: Dale Voeller	Report ID: A4C1246 - 03 27 24 1444
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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: 24C0499							
A4C1246-01	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-02	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-03	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-04	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-05	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-06	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-07	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-08	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-09	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-10	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-11	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-12	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-13	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-14	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-15	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-16	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-17	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-18	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-19	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
A4C1246-20	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:00	10mL/10mL	10mL/10mL	1.00
Batch: 24C0500							
A4C1246-21	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-22	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-23	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-24	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-25	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-26	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-27	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00
A4C1246-28	Drinking Water	EPA 200.8	03/09/24 00:00	03/14/24 10:03	10mL/10mL	10mL/10mL	1.00

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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: Administration Center/2344 Project Manager: Dale Voeller	<u>Report ID:</u> A4C1246 - 03 27 24 1444
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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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Anissa Kepa For Jason Woodcock, Project Manager



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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 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.

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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.

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentration 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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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.

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A4C1246

Lead in Drinking Water Testing Program Hillsboro School District

Date Collected: 03/09/2024 School Name: HSD Administration Center

	Fixture Number	Sample Number	Room / Location
21	021	22390000-021BF24A	Second Floor; Women's Restroom, left to right (2)
22	022	22390000-022BF24A	Second Floor; Women's Restroom, left to right (3)
23	023	22390000-023BF24A	Second Floor; Women's Restroom, left to right (4)
24	024	22390000-024DW24A	Second Floor; Hallway, drinking fountain - left
25	025	22390000-025DW24A	Second Floor; Hallway, drinking fountain - right
26	026	22390000-026OT24A	Second Floor, Break Room, instant hot water faucet (sink)
27	027	22390000-027SF24A	Second Floor, Break Room, staff faucet
28	028	22390000-028OT24A	Second Floor, Break Room, instant hot water faucet
29	029		
30	030		
31	031		
32	032		
33	033		
34	034		
35	035		
36	036		
37	037		
38	038		
39	039		
40	040		

Relinquished By/Signature: *Nicera Yap* Date/Time: 3-11-24 11:35
 Received By/Signature: *Andy Manresa* Date/Time: 3/13/24 12:00



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A4C1246

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A4 ~~A4C1246~~ ^{C1246} _{acc form # 3/13/24}

Project/Project #: 23440.190/0001 / HSD Administration Center - Round 1

Delivery Info:
 Date/time received: 3/13/24 @ 1200 By: AJM
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other
 From USDA Regulated Origin? Yes No

Cooler Inspection Date/time inspected: 3/13/24 @ 1355 By: AJM
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No
 Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>17.2</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: 3.13.24 @ 14:37 By: MHM
 All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: ^{3.13.24 MHM} 22390400 - 0208424 through 22390400 - 0280124A are labelled different from previous samples, ID Prefix reads 22390400. acc form # 3/13/24

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 pH ID: A231172
 Comments: _____

Labeled by: MHM Witness: AAW Cooler Inspected by: MHM
 Form Y-003 R-02

