



May 16, 2023

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

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

Regarding: Revised Drinking Water Sampling Report
 Witch Hazel Elementary School
 4950 SE Davis Road
 Hillsboro, Oregon 97123
 PBS Project Number 23440.164 / 0003

Dear Mr. Peterson:

Between October 1, 2022, and January 14, 2023, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Witch Hazel 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).

Fixtures used by after-school program participants in the kitchen and cafeteria areas were sampled in October 2022. The remainder of the building was sampled in December 2022 and January 2023. Fixture number 027, the drinking fountain in Room 102, was not working during the initial round of sampling. This fixture has been removed at the request of the teacher.

One hundred four samples were delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis. All samples analyzed below 15 ppb. The following table lists the results of the analysis.

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
001	22391300-001KF22A	Kitchen, pot filler faucet – first draw	5.40
001	22391300-001KF22B	Kitchen, pot filler faucet – flush	0.277
002	22391300-002KF22A	North prep island, single sink faucet	1.03
003	22391300-003KF22A	South prep island, double sink faucet	0.937
004	22391300-004KF22A	South prep island, double sink sprayer	0.658
005	22391300-005DW22B	Cafeteria, drinking fountain at north wall sink	0.745
006	22391300-006KF22A	Cafeteria, faucet at north wall sink	0.347
007	22391300-007BF22A	Cafeteria hall boys restroom, triple head wash basin – left	1.86

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
008	22391300-008BF22A	Cafeteria hall boys restroom, triple head wash basin – center	1.24
009	22391300-009BF22A	Cafeteria hall boys restroom, triple head wash basin – right	0.919
010	22391300-010WB22A	Cafeteria hall, water bottle filler	ND
011	22391300-011DW22A	Cafeteria hall, drinking fountain	ND
012	22391300-012BF22A	Cafeteria hall girls restroom, triple head wash basin – left	1.16
013	22391300-013BF22A	Cafeteria hall girls restroom, triple head wash basin – center	0.689
014	22391300-014BF22A	Cafeteria hall girls restroom, triple head wash basin – right	0.308
015	22391300-015DW22A	Music Room drinking fountain	1.76
016	22391300-016CF22A	Music Room sink faucet	3.18
017	22391300-017BF22A	Kitchen restroom sink faucet	0.700
018	22391300-018NS22A	Health Room east (left side) sink faucet	0.900
019	22391300-019NS22A	Health Room west (right side) sink faucet	0.742
020	22391300-020BF22A	Health Room restroom sink faucet	2.26
021	22391300-021SF22A	Work Room sink faucet	1.99
022	22391300-022BF22A	Office area east (left) staff restroom – sink faucet	0.481
023	22391300-023BF22A	Office area west (right) staff restroom – sink faucet	0.612
024	22391300-024SF22A	Staff lounge – hot water dispenser	0.366
025	22391300-025SF22A	Staff lounge – sink faucet	0.473
026	22391300-026SF22A	Staff lounge – sink sprayer	0.339
027	No sample	Room 102 drinking fountain - removed at request of the teacher	
028	22391300-028CF22A	Room 102 classroom faucet	2.31
029	22391300-029BF22A	Room 102 restroom sink faucet	0.592
030	22391300-030DW22A	Room 103 west side (left) drinking fountain	0.806
031	22391300-031CF22A	Room 103 west side (left) classroom faucet	0.984
032	22391300-032DW22A	Room 103 east side (right) drinking fountain	1.29
033	22391300-033CF22A	Room 103 east side (right) classroom faucet	1.04
034	22391300-034DW22A	Room 104 drinking fountain	0.870
035	22391300-035CF22A	Room 104 classroom faucet	0.540
036	22391300-036DW22A	Room 105 drinking fountain	1.19
037	22391300-037CF22A	Room 105 classroom faucet	1.03
038	22391300-038DW22A	Room 106 drinking fountain	1.31
039	22391300-039CF22A	Room 106 classroom faucet	0.829
040	22391300-040DW22A	Room 107 drinking fountain	1.08
041	22391300-041CF22A	Room 107 classroom faucet	0.814
042	22391300-042DW22A	Room 108 drinking fountain	1.01
043	22391300-043CF22A	Room 108 classroom faucet	0.653
044	22391300-044DW22A	Room 109 drinking fountain	1.16
045	22391300-045CF22A	Room 109 classroom faucet	0.769
046	22391300-046DW22A	Room 110 drinking fountain	0.432
047	22391300-047CF22A	Room 110 classroom faucet	0.859
048	22391300-048DW22A	Room 111 drinking fountain	1.03

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
049	22391300-049CF22A	Room 111 classroom faucet	0.431
050	22391300-050DW22A	Room 112 drinking fountain	1.14
051	22391300-051CF22A	Room 112 classroom faucet	1.34
052	22391300-052DW22A	1st floor east drinking fountains - left	1.08
053	22391300-053DW22A	1st floor east drinking fountains – right	5.44
054	22391300-054BF22A	1st floor east boys restroom – left sink faucet	1.02
055	22391300-055BF22A	1st floor east boys restroom – right sink faucet	0.583
056	22391300-056BF22A	1st floor east staff restroom sink faucet	0.941
057	22391300-057BF22A	1st floor east girls restroom – left sink faucet	0.904
058	22391300-058BF22A	1st floor east girls restroom – right sink faucet	0.753
059	22391300-059SF22A	Media Center workroom sink faucet	2.67
060	22391300-060BF22A	1st floor west boys restroom – left sink faucet	0.726
061	22391300-061BF22A	1st floor west boys restroom – right sink faucet	1.02
062	22391300-062BF22A	1st floor west girls restroom – left sink faucet	1.38
063	22391300-063BF22A	1st floor west girls restroom – right sink faucet	0.332
064	22391300-064DW22A	1st floor west drinking fountains – left	0.790
065	22391300-065DW22A	1st floor west drinking fountains - right	0.685
066	22391300-066DW22A	Room 101 drinking fountain	1.60
067	22391300-067CF22A	Room 101 classroom faucet	1.47
068	22391300-068BF22A	Room 101 restroom sink faucet	2.57
069	22391300-069DW22A	Room 201 drinking fountain	0.969
070	22391300-070CF22A	Room 201 classroom faucet	0.794
071	22391300-071DW22A	Room 202 drinking fountain	1.05
072	22391300-072CF22A	Room 202 classroom faucet	0.532
073	22391300-073DW22A	Room 203 drinking fountain	0.479
074	22391300-074CF22A	Room 203 classroom faucet	0.764
075	22391300-075DW22A	Room 204 drinking fountain	0.944
076	22391300-076CF22A	Room 204 classroom faucet	0.603
077	22391300-077DW22A	Room 205 drinking fountain	0.948
078	22391300-078CF22A	Room 205 classroom faucet	0.725
079	22391300-079DW22A	Room 206 drinking fountain	1.15
080	22391300-080CF22A	Room 206 classroom faucet	1.29
081	22391300-081DW22A	Room 207 drinking fountain	0.952
082	22391300-082CF22A	Room 207 classroom faucet	4.50
083	22391300-083DW22A	Room 208 drinking fountain	1.19
084	22391300-084CF22A	Room 208 classroom faucet	1.35
085	22391300-085DW22A	Room 209 drinking fountain	0.510
086	22391300-086CF22A	Room 209 classroom faucet	0.666
087	22391300-087DW22A	Room 210 drinking fountain	0.932
088	22391300-088CF22A	Room 210 classroom faucet	2.33
089	22391300-089DW22A	Room 211 drinking fountain	0.822

Fixture Number	Sample Number	Location / Room No.	Results (ppb)
090	22391300-090CF22A	Room 211 classroom faucet	0.960
091	22391300-091DW22A	Room 212 drinking fountain	0.840
092	22391300-092CF22A	Room 212 classroom faucet	1.97
093	22391300-093WB22A	2nd floor east, water bottle filler	ND
094	22391300-094DW22A	2nd floor east, drinking fountain	ND
095	22391300-095BF22A	2nd floor east boys restroom – left sink faucet	0.860
096	22391300-096BF22A	2nd floor east boys restroom – right sink faucet	0.721
097	22391300-097BF22A	2nd floor east staff restroom sink faucet	0.545
098	22391300-098BF22A	2nd floor east girls restroom – left sink faucet	0.450
099	22391300-099BF22A	2nd floor east girls restroom – right sink faucet	0.574
100	22391300-0100BF22A	2nd floor west boys restroom – left sink faucet	0.916
101	22391300-0101BF22A	2nd floor west boys restroom – right sink faucet	0.619
102	22391300-0102BF22A	2nd floor west girls restroom – left sink faucet	0.648
103	22391300-0103BF22A	2nd floor west girls restroom – right sink faucet	0.592
104	22391300-0104DW22A	2nd floor west drinking fountains – left drinking fountain	1.36
105	22391300-0105DW22A	2nd floor west drinking fountains – right drinking fountain	0.631

ND = no lead detected

Please refer to the attached fixture location drawings and laboratory analytical reports 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.

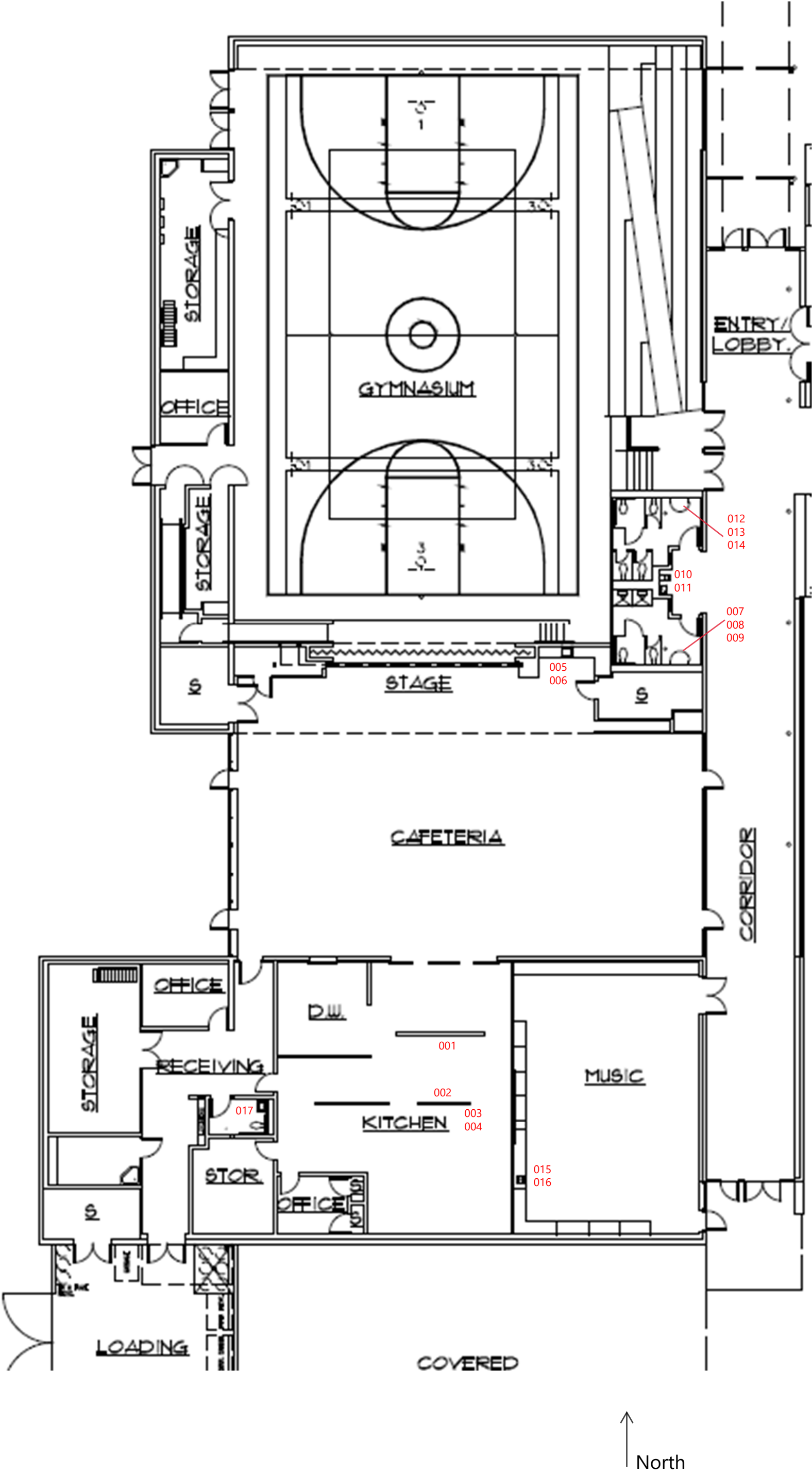
Please feel free to contact me at 503.515.4726 or voeller@pbsusa.com with any questions or comments.

Sincerely,

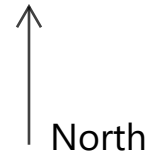
 Digitally signed by Dale Voeller, CHMM, CSP
Date: 2023.05.16 15:38:29 -07'00'

Dale Voeller, CHMM, CSP
Senior Project Manager

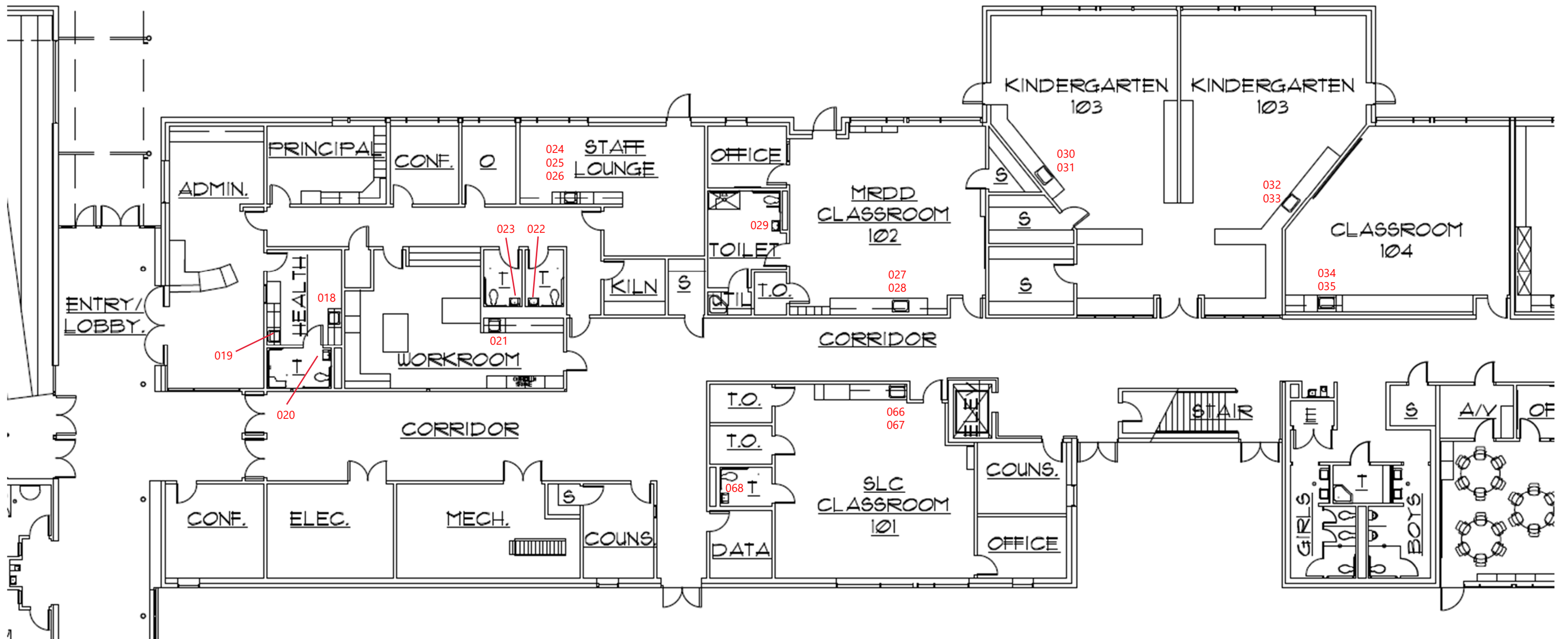
Attachments: Fixture Location Drawings
Laboratory Analytical Reports

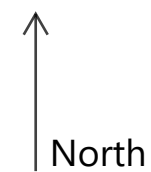
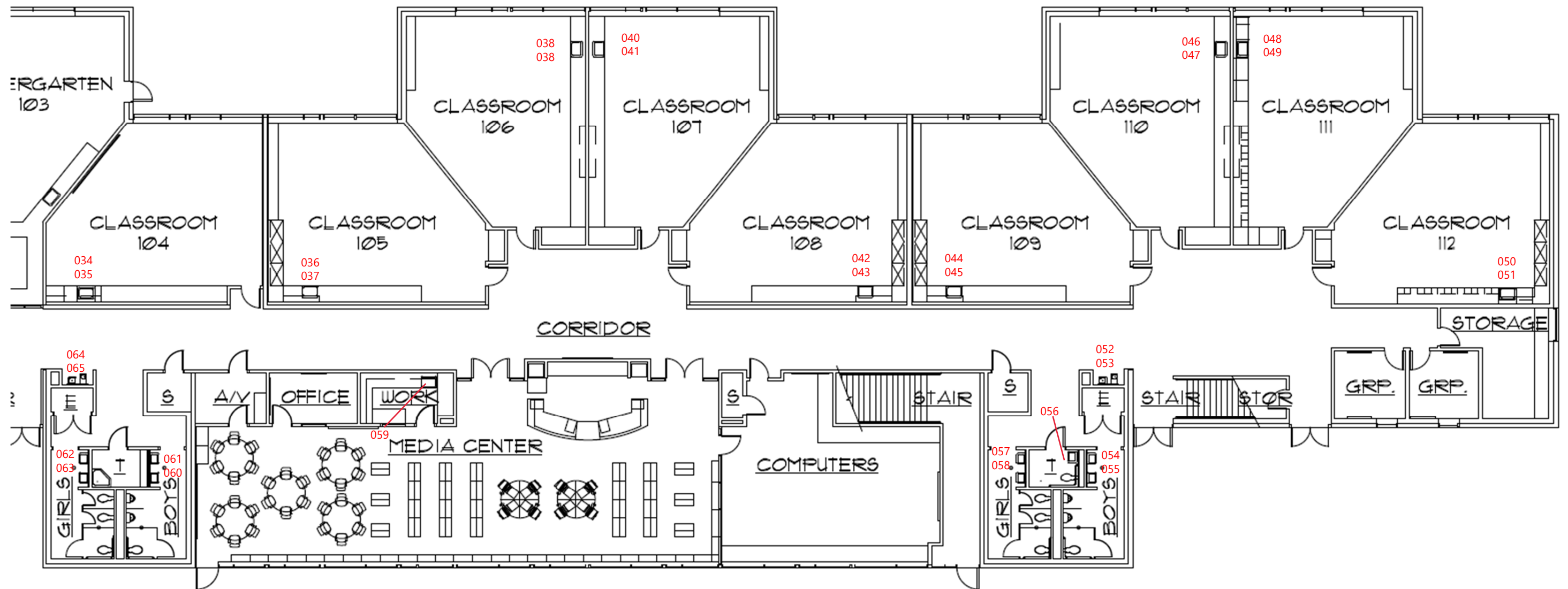


MAIN
ENTRY



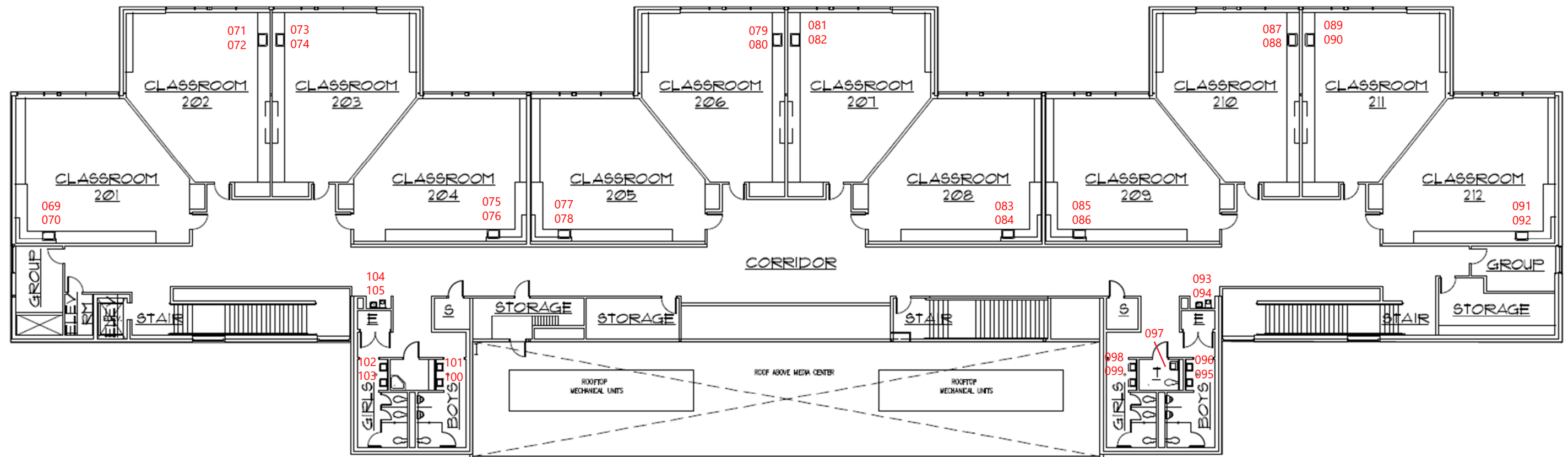
Witch Hazel Elementary School
Fixture Location Drawing
Office and West Classrooms
May 2023
Sheet 2 of 4





Witch Hazel Elementary School
 Fixture Location Drawing
 East Classrooms
 May 2023
 Sheet 3 of 4

Witch Hazel Elementary School
Fixture Location Drawing
2nd Floor
May 2023
Sheet 4 of 4



↑
North



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, October 18, 2022

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A2J0151 - Hillsboro School District - Witch Hazel ES/23440.164/0003

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 A2J0151, which was received by the laboratory on 10/4/2022 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)

Cooler #1

21.0 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**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel ES/23440.164/C**Project Manager: **Dale Voeller****Report ID:****A2J0151 - 10 18 22 1350****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-001KF22A	A2J0151-01	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-001KF22B	A2J0151-02	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-002KF22A	A2J0151-03	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-003KF22A	A2J0151-04	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-004KF22A	A2J0151-05	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-005DW22B	A2J0151-06	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-006KF22A	A2J0151-07	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-007BF22A	A2J0151-08	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-008BF22A	A2J0151-09	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-009BF22A	A2J0151-10	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-010WB22A	A2J0151-11	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-011DW22A	A2J0151-12	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-013BF22A	A2J0151-13	Drinking Water	10/01/22 00:00	10/04/22 13:10
22391300-014BF22A	A2J0151-14	Drinking Water	10/01/22 00:00	10/04/22 13:10

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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: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel ES/23440.164/C
Project Manager: Dale VoellerReport ID:
A2J0151 - 10 18 22 1350

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
22391300-001KF22A (A2J0151-01)				Matrix: Drinking Water				
Batch: 22J0265								
Lead	5.40	---	0.200	ug/L	1	10/11/22 19:41	EPA 200.8	
22391300-001KF22B (A2J0151-02)				Matrix: Drinking Water				
Batch: 22J0265								
Lead	0.277	---	0.200	ug/L	1	10/11/22 19:45	EPA 200.8	
22391300-002KF22A (A2J0151-03)				Matrix: Drinking Water				
Batch: 22J0265								
Lead	1.03	---	0.200	ug/L	1	10/11/22 19:49	EPA 200.8	
22391300-003KF22A (A2J0151-04)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.937	---	0.200	ug/L	1	10/11/22 13:32	EPA 200.8	
22391300-004KF22A (A2J0151-05)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.658	---	0.200	ug/L	1	10/11/22 13:43	EPA 200.8	
22391300-005DW22B (A2J0151-06)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.745	---	0.200	ug/L	1	10/11/22 13:46	EPA 200.8	
22391300-006KF22A (A2J0151-07)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.347	---	0.200	ug/L	1	10/11/22 13:49	EPA 200.8	
22391300-007BF22A (A2J0151-08)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	1.86	---	0.200	ug/L	1	10/11/22 13:53	EPA 200.8	
22391300-008BF22A (A2J0151-09)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	1.24	---	0.200	ug/L	1	10/11/22 13:57	EPA 200.8	

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: **Hillsboro School District**
Project Number: **Witch Hazel ES/23440.164/C**
Project Manager: **Dale Voeller**

Report ID:
A2J0151 - 10 18 22 1350

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
22391300-009BF22A (A2J0151-10)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.919	---	0.200	ug/L	1	10/11/22 14:08	EPA 200.8	
22391300-010WB22A (A2J0151-11)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	ND	---	0.200	ug/L	1	10/11/22 14:12	EPA 200.8	
22391300-011DW22A (A2J0151-12)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	ND	---	0.200	ug/L	1	10/11/22 14:15	EPA 200.8	
22391300-013BF22A (A2J0151-13)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.689	---	0.200	ug/L	1	10/11/22 14:18	EPA 200.8	
22391300-014BF22A (A2J0151-14)				Matrix: Drinking Water				
Batch: 22J0287								
Lead	0.308	---	0.200	ug/L	1	10/11/22 14:22	EPA 200.8	

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: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel ES/23440.164/C
Project Manager: Dale VoellerReport ID:
A2J0151 - 10 18 22 1350

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 22J0265 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22J0265-BLK1)		Prepared: 10/07/22 09:29 Analyzed: 10/11/22 18:04										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22J0265-BS1)		Prepared: 10/07/22 09:29 Analyzed: 10/11/22 18:08										
EPA 200.8												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	
Matrix Spike (22J0265-MS2)		Prepared: 10/07/22 09:29 Analyzed: 10/11/22 19:53										
QC Source Sample: 22391300-002KF22A (A2J0151-03)												
EPA 200.8												
Lead	16.8	---	0.201	ug/L	1	15.0	1.03	105	70 - 130%	---	---	
Batch 22J0287 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22J0287-BLK1)		Prepared: 10/07/22 13:48 Analyzed: 10/11/22 13:28										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22J0287-BS1)		Prepared: 10/07/22 13:48 Analyzed: 10/11/22 13:24										
EPA 200.8												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	
Duplicate (22J0287-DUP1)		Prepared: 10/07/22 13:48 Analyzed: 10/11/22 13:35										
QC Source Sample: 22391300-003KF22A (A2J0151-04)												
EPA 200.8												
Lead	0.923	---	0.200	ug/L	1	---	0.937	---	---	2	20%	
Matrix Spike (22J0287-MS1)		Prepared: 10/07/22 13:48 Analyzed: 10/11/22 13:38										
QC Source Sample: 22391300-003KF22A (A2J0151-04)												
EPA 200.8												
Lead	16.7	---	0.201	ug/L	1	15.0	0.937	105	70 - 130%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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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: **Witch Hazel ES/23440.164/C**Project Manager: **Dale Voeller****Report ID:****A2J0151 - 10 18 22 1350****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: 22J0265</u>							
A2J0151-01	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 09:29	10mL/10mL	10mL/10mL	1.00
A2J0151-02	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 09:29	10mL/10mL	10mL/10mL	1.00
A2J0151-03	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 09:29	10mL/10mL	10mL/10mL	1.00
<u>Batch: 22J0287</u>							
A2J0151-04	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-05	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-06	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-07	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-08	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-09	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-10	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-11	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-12	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-13	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00
A2J0151-14	Drinking Water	EPA 200.8	10/01/22 00:00	10/07/22 13:48	10mL/10mL	10mL/10mL	1.00

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel ES/23440.164/C

Project Manager: Dale Voeller

Report ID:

A2J0151 - 10 18 22 1350

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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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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4412 S Corbett Ave
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Project: **Hillsboro School District**

Project Number: **Witch Hazel ES/23440.164/c**
Project Manager: **Dale Voeller**

Report ID:

A2J0151 - 10 18 22 1350

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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Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel ES/23440.164/C**
Project Manager: **Dale Voeller**

Report ID:
A2J0151 - 10 18 22 1350

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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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: **Hillsboro School District**
Project Number: **Witch Hazel ES/23440.164/C**
Project Manager: **Dale Voeller**

Report ID:
A2J0151 - 10 18 22 1350

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: **Hillsboro School District**Project Number: **Witch Hazel ES/23440.164/C**Project Manager: **Dale Voeller****Report ID:****A2J0151 - 10 18 22 1350**work order #: A322 mp 10/16
A2J0151**Lead in Drinking Water Testing Program**Date Collected: 10/01/2022PBS Project: 23440.164 / 0003School Name: Witch Hazel Elementary SchoolBuilding: Main BuildingBuilding Number: 22391300Analysis Requested: Lead (Pb) in Drinking WaterEmail Results To: voeller@pbsusa.comTurnaround Time: 10-day

	Fixture Number	Sample Number	Location / Description
1	001	22391300-001KF22A	Kitchen, pot filler faucet – first draw
2	001	22391300-001KF22B	Kitchen, pot filler faucet – flush
3	002	22391300-002KF22A	North prep island, single sink faucet
4	003	22391300-003KF22A	South prep island, double sink faucet
5	004	22391300-004KF22A	South prep island, double sink sprayer
6	005	22391300-005DW22B	Cafeteria, drinking fountain at north wall sink
7	006	22391300-006KF22A	Cafeteria, faucet at north wall sink
8	007	22391300-007BF22A	Cafeteria hall boys restroom, triple head wash basin – left
9	008	22391300-008BF22A	Cafeteria hall boys restroom, triple head wash basin – center
10	009	22391300-009BF22A	Cafeteria hall boys restroom, triple head wash basin – right
11	010	22391300-010WB22A	Cafeteria hall, water bottle filler
12	011	22391300-011DW22A	Cafeteria hall, drinking fountain
13	012		
14	013	22391300-013BF22A	Cafeteria hall girls restroom, triple head wash basin – center
15	014	22391300-014BF22A	Cafeteria hall girls restroom, triple head wash basin – right
16			
17			
18			
19			
20			

Relinquished By/Signature: [Signature]Date/Time: 10/3/22 @ 3:50 PMReceived By/Signature: [Signature] Andy MancoskeDate/Time: 10/04/22 13:10

1 of 1

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel ES/23440.164/C

Project Manager: Dale Voeller

Report ID:

A2J0151 - 10 18 22 1350

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2J0151Project/Project #: Witch Hazel Elementary School / 23440.164/0003

Delivery Info:

Date/time received: 10/04/22 @ 1310 By: AJMDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 10/04/22 @ 1345 By: AJMChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>21.0</u>						

Received on ice? (Y/N) NTemp. blanks? (Y/N) NIce type: (Gel/Real/Other) NoneCondition: OutCooler out of temp? (Y/N) N Possible reason why: Drinking WaterGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 10/04/22 @ 13:00 By: RhpAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Containers reads 22391300-005
0W22ACOC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: _____Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments: _____

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

Comments: _____

Additional information:

Labeled by: _____ Witness: _____ Cooler Inspected by: _____

RhpAVLRhp

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, October 31, 2022

Dale Voeller

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

RE: A2J0530 - Hillsboro School District - Witch Hazel Elementary School/23440.164/0003

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 A2J0530, which was received by the laboratory on 10/18/2022 at 10:22:00AM.

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

20.9 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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel Elementary School
Project Manager: Dale Voeller

Report ID:

A2J0530 - 10 31 22 1552

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-012BF22A	A2J0530-01	Drinking Water	10/15/22 00:00	10/18/22 10:22

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

PBS Engineering and Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2J0530 - 10 31 22 1552****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
22391300-012BF22A (A2J0530-01)				Matrix: Drinking Water				
Batch: 22J0769								
Lead	1.16	---	0.200	ug/L	1	10/21/22 00:41	EPA 200.8	

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: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**Project Manager: **Dale Voeller****Report ID:****A2J0530 - 10 31 22 1552****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 22J0769 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22J0769-BLK1)		Prepared: 10/19/22 12:23 Analyzed: 10/21/22 00:09										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22J0769-BS1)		Prepared: 10/19/22 12:23 Analyzed: 10/21/22 00:13										
EPA 200.8												
Lead	16.2	---	0.201	ug/L	1	15.0	---	108	85 - 115%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2J0530 - 10 31 22 1552

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0769</u>							
A2J0530-01	Drinking Water	EPA 200.8	10/15/22 00:00	10/19/22 12:23	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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Project: Hillsboro School District

Project Number: Witch Hazel Elementary School
Project Manager: Dale Voeller

Report ID:

A2J0530 - 10 31 22 1552

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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Jason Woodcock, Project Manager



ANALYTICAL REPORT

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Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2J0530 - 10 31 22 1552

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



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4412 S Corbett Ave
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Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2J0530 - 10 31 22 1552

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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ANALYTICAL REPORT

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Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2J0530 - 10 31 22 1552

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.

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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: **Hillsboro School District**Project Number: **Witch Hazel Elementary Sc**Project Manager: **Dale Voeller****Report ID:****A2J0530 - 10 31 22 1552****Lead in Drinking Water Testing Program**Date Collected: 10/15/2022PBS Project: 23440.164 / 0003School Name: Witch Hazel Elementary SchoolBuilding: Main BuildingBuilding Number: 22391300Analysis Requested: Lead (Pb) in Drinking WaterEmail Results To: voeller@pbsusa.comTurnaround Time: 10-day

	Fixture Number	Sample Number	Location / Description
1	012	22391300-012BF22A	Cafeteria hall girls restroom, triple head wash basin – left
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Relinquished By/Signature: Dale Voeller 10/15/22Date/Time: 12:35 PMReceived By/Signature: SW APX LABSDate/Time: 10/18/22 10:22 1022 ET

1 of 1

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: **Hillsboro School District**Project Number: **Witch Hazel Elementary Sc**Project Manager: **Dale Voeller****Report ID:****A2J0530 - 10 31 22 1552****APEX LABS COOLER RECEIPT FORM**Client: PBS Element WO#: A2 50530Project/Project #: Witch Hazel Elementary School 234410.161/0003**Delivery Info:**Date/time received: 10/18/22 @ 1022 By: ESTDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐**Cooler Inspection** Date/time inspected: 10/18/22 @ 1051 By: ESTChain 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>20.9</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) Y Possible reason why: Drinking water SGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 10/18/22 @ 11:14 By: RHPAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☒ No ☐ Comments: _____COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: _____Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments: _____

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

Comments: _____

Additional information:Labeled by: RHP Witness: DS Cooler Inspected by: EST

Form Y-003 R-00

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

Thursday, December 29, 2022

Dale Voeller

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

RE: A2L0739 - Hillsboro School District - Witch Hazel Elementary School/23440.164/0003

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 A2L0739, 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****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 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary Sc**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-015DW22A	A2L0739-01	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-016CF22A	A2L0739-02	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-017BF22A	A2L0739-03	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-018NS22A	A2L0739-04	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-019NS22A	A2L0739-05	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-020BF22A	A2L0739-06	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-021SF22A	A2L0739-07	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-022BF22A	A2L0739-08	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-023BF22A	A2L0739-09	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-024SF22A	A2L0739-10	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-025SF22A	A2L0739-11	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-026SF22A	A2L0739-12	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-028CF22A	A2L0739-13	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-029BF22A	A2L0739-14	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-030DW22A	A2L0739-15	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-031CF22A	A2L0739-16	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-032DW22A	A2L0739-17	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-033CF22A	A2L0739-18	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-034DF22A	A2L0739-19	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-035CF22A	A2L0739-20	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-036DW22A	A2L0739-21	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-037CF22A	A2L0739-22	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-038DW22A	A2L0739-23	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-039CF22A	A2L0739-24	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-040DW22A	A2L0739-25	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-041CF22A	A2L0739-26	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-042DW22A	A2L0739-27	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-043CF22A	A2L0739-28	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-044DW22A	A2L0739-29	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-045CF22A	A2L0739-30	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-046DW22A	A2L0739-31	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-047CF22A	A2L0739-32	Drinking Water	12/17/22 00:00	12/19/22 11:55

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**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary Sch**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-048DW22A	A2L0739-33	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-049CF22A	A2L0739-34	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-050DW22A	A2L0739-35	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-051CF22A	A2L0739-36	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-052DW22A	A2L0739-37	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-054BF22A	A2L0739-38	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-055BF22A	A2L0739-39	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-056BF22A	A2L0739-40	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-057BF22A	A2L0739-41	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-058BF22A	A2L0739-42	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-059SF22A	A2L0739-43	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-060BF22A	A2L0739-44	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-061BF22A	A2L0739-45	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-062BF22A	A2L0739-46	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-063BF22A	A2L0739-47	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-064DW22A	A2L0739-48	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-065DW22A	A2L0739-49	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-066DW22A	A2L0739-50	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-067CF22A	A2L0739-51	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-068BF22A	A2L0739-52	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-069DW22A	A2L0739-53	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-070CF22A	A2L0739-54	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-071DW22A	A2L0739-55	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-072CF22A	A2L0739-56	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-073DW22A	A2L0739-57	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-074CF22A	A2L0739-58	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-075DW22A	A2L0739-59	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-076CF22A	A2L0739-60	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-077DW22A	A2L0739-61	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-078CF22A	A2L0739-62	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-079DW22A	A2L0739-63	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-080CF22A	A2L0739-64	Drinking Water	12/17/22 00:00	12/19/22 11:55

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-081DW22A	A2L0739-65	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-082CF22A	A2L0739-66	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-083DW22A	A2L0739-67	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-084CF22A	A2L0739-68	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-085DW22A	A2L0739-69	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-086CF22A	A2L0739-70	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-087DW22A	A2L0739-71	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-088CF22A	A2L0739-72	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-089DW22A	A2L0739-73	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-090CF22A	A2L0739-74	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-091DW22A	A2L0739-75	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-092CF22A	A2L0739-76	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-093WB22A	A2L0739-77	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-094DW22A	A2L0739-78	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-095BF22A	A2L0739-79	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-096BF22A	A2L0739-80	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-097BF22A	A2L0739-81	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-098BF22A	A2L0739-82	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-099BF22A	A2L0739-83	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0100BF22A	A2L0739-84	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0101BF22A	A2L0739-85	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0102BF22A	A2L0739-86	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0103BF22A	A2L0739-87	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0104DW22A	A2L0739-88	Drinking Water	12/17/22 00:00	12/19/22 11:55
22391300-0105DW22A	A2L0739-89	Drinking Water	12/17/22 00:00	12/19/22 11:55

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

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

Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:
A2L0739 - 12 29 22 1051

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
22391300-015DW22A (A2L0739-01)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	1.76	---	0.200	ug/L	1	12/20/22 12:41	EPA 200.8	
22391300-016CF22A (A2L0739-02)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	3.18	---	0.200	ug/L	1	12/20/22 12:53	EPA 200.8	
22391300-017BF22A (A2L0739-03)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.700	---	0.200	ug/L	1	12/20/22 12:57	EPA 200.8	
22391300-018NS22A (A2L0739-04)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.900	---	0.200	ug/L	1	12/20/22 13:01	EPA 200.8	
22391300-019NS22A (A2L0739-05)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.742	---	0.200	ug/L	1	12/20/22 13:05	EPA 200.8	
22391300-020BF22A (A2L0739-06)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	2.26	---	0.200	ug/L	1	12/20/22 13:08	EPA 200.8	
22391300-021SF22A (A2L0739-07)				Matrix: Drinking Water				
Batch: 22L0699								
Lead	1.99	---	0.222	ug/L	1	12/21/22 05:14	EPA 200.8	DW-D
22391300-022BF22A (A2L0739-08)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.481	---	0.200	ug/L	1	12/20/22 13:20	EPA 200.8	
22391300-023BF22A (A2L0739-09)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.612	---	0.200	ug/L	1	12/20/22 13:23	EPA 200.8	
22391300-024SF22A (A2L0739-10)				Matrix: Drinking Water				

Apex Laboratories

Jason Woodcock, Project Manager

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-024SF22A (A2L0739-10)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.366	---	0.200	ug/L	1	12/20/22 13:27	EPA 200.8	
22391300-025SF22A (A2L0739-11)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.473	---	0.200	ug/L	1	12/20/22 13:30	EPA 200.8	
22391300-026SF22A (A2L0739-12)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.339	---	0.200	ug/L	1	12/20/22 13:33	EPA 200.8	
22391300-028CF22A (A2L0739-13)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	2.31	---	0.200	ug/L	1	12/20/22 13:37	EPA 200.8	
22391300-029BF22A (A2L0739-14)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.592	---	0.200	ug/L	1	12/20/22 13:41	EPA 200.8	
22391300-030DW22A (A2L0739-15)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.806	---	0.200	ug/L	1	12/20/22 13:44	EPA 200.8	
22391300-031CF22A (A2L0739-16)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.984	---	0.200	ug/L	1	12/20/22 13:48	EPA 200.8	
22391300-032DW22A (A2L0739-17)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	1.29	---	0.200	ug/L	1	12/20/22 13:52	EPA 200.8	
22391300-033CF22A (A2L0739-18)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	1.04	---	0.200	ug/L	1	12/20/22 14:04	EPA 200.8	
22391300-034DF22A (A2L0739-19)				Matrix: Drinking Water				

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: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:
A2L0739 - 12 29 22 1051

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
22391300-034DF22A (A2L0739-19)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.870	---	0.200	ug/L	1	12/20/22 14:08	EPA 200.8	
22391300-035CF22A (A2L0739-20)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	0.540	---	0.200	ug/L	1	12/20/22 14:12	EPA 200.8	
22391300-036DW22A (A2L0739-21)				Matrix: Drinking Water				
Batch: 22L0692								
Lead	1.19	---	0.200	ug/L	1	12/20/22 14:15	EPA 200.8	
22391300-037CF22A (A2L0739-22)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.03	---	0.200	ug/L	1	12/20/22 14:31	EPA 200.8	
22391300-038DW22A (A2L0739-23)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.31	---	0.200	ug/L	1	12/20/22 14:57	EPA 200.8	
22391300-039CF22A (A2L0739-24)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.829	---	0.200	ug/L	1	12/20/22 15:01	EPA 200.8	
22391300-040DW22A (A2L0739-25)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.08	---	0.200	ug/L	1	12/20/22 15:05	EPA 200.8	
22391300-041CF22A (A2L0739-26)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.814	---	0.200	ug/L	1	12/20/22 15:09	EPA 200.8	
22391300-042DW22A (A2L0739-27)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.01	---	0.200	ug/L	1	12/20/22 15:13	EPA 200.8	
22391300-043CF22A (A2L0739-28)				Matrix: Drinking Water				

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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 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-043CF22A (A2L0739-28)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.653	---	0.200	ug/L	1	12/20/22 15:17	EPA 200.8	
22391300-044DW22A (A2L0739-29)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.16	---	0.200	ug/L	1	12/20/22 15:20	EPA 200.8	
22391300-045CF22A (A2L0739-30)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.769	---	0.200	ug/L	1	12/20/22 15:24	EPA 200.8	
22391300-046DW22A (A2L0739-31)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.432	---	0.200	ug/L	1	12/20/22 15:28	EPA 200.8	
22391300-047CF22A (A2L0739-32)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.859	---	0.200	ug/L	1	12/20/22 15:31	EPA 200.8	
22391300-048DW22A (A2L0739-33)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.03	---	0.200	ug/L	1	12/20/22 15:43	EPA 200.8	
22391300-049CF22A (A2L0739-34)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.431	---	0.200	ug/L	1	12/20/22 15:47	EPA 200.8	
22391300-050DW22A (A2L0739-35)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.14	---	0.200	ug/L	1	12/20/22 15:50	EPA 200.8	
22391300-051CF22A (A2L0739-36)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.34	---	0.200	ug/L	1	12/20/22 15:54	EPA 200.8	
22391300-052DW22A (A2L0739-37)				Matrix: Drinking Water				

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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: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:
A2L0739 - 12 29 22 1051

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
22391300-052DW22A (A2L0739-37)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.08	---	0.200	ug/L	1	12/20/22 15:58	EPA 200.8	
22391300-054BF22A (A2L0739-38)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	1.02	---	0.200	ug/L	1	12/20/22 16:02	EPA 200.8	
22391300-055BF22A (A2L0739-39)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.583	---	0.200	ug/L	1	12/20/22 16:06	EPA 200.8	
22391300-056BF22A (A2L0739-40)				Matrix: Drinking Water				
Batch: 22L0699								
Lead	0.941	---	0.222	ug/L	1	12/21/22 05:19	EPA 200.8	DW-D
22391300-057BF22A (A2L0739-41)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.904	---	0.200	ug/L	1	12/20/22 16:10	EPA 200.8	
22391300-058BF22A (A2L0739-42)				Matrix: Drinking Water				
Batch: 22L0697								
Lead	0.753	---	0.200	ug/L	1	12/20/22 16:14	EPA 200.8	
22391300-059SF22A (A2L0739-43)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	2.67	---	0.200	ug/L	1	12/20/22 16:37	EPA 200.8	
22391300-060BF22A (A2L0739-44)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.726	---	0.200	ug/L	1	12/20/22 16:49	EPA 200.8	
22391300-061BF22A (A2L0739-45)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.02	---	0.200	ug/L	1	12/20/22 16:53	EPA 200.8	
22391300-062BF22A (A2L0739-46)				Matrix: Drinking Water				

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel Elementary School
Project Manager: Dale VoellerReport ID:
A2L0739 - 12 29 22 1051

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
22391300-062BF22A (A2L0739-46)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.38	---	0.200	ug/L	1	12/20/22 16:57	EPA 200.8	
22391300-063BF22A (A2L0739-47)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.332	---	0.200	ug/L	1	12/20/22 17:01	EPA 200.8	
22391300-064DW22A (A2L0739-48)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.790	---	0.200	ug/L	1	12/20/22 17:05	EPA 200.8	
22391300-065DW22A (A2L0739-49)				Matrix: Drinking Water				
Batch: 22L0699								
Lead	0.685	---	0.222	ug/L	1	12/21/22 05:24	EPA 200.8	DW-D
22391300-066DW22A (A2L0739-50)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.60	---	0.200	ug/L	1	12/20/22 17:16	EPA 200.8	
22391300-067CF22A (A2L0739-51)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.47	---	0.200	ug/L	1	12/20/22 17:20	EPA 200.8	
22391300-068BF22A (A2L0739-52)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	2.57	---	0.200	ug/L	1	12/20/22 17:24	EPA 200.8	
22391300-069DW22A (A2L0739-53)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.969	---	0.200	ug/L	1	12/20/22 17:28	EPA 200.8	
22391300-070CF22A (A2L0739-54)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.794	---	0.200	ug/L	1	12/20/22 17:32	EPA 200.8	
22391300-071DW22A (A2L0739-55)				Matrix: Drinking Water				

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-071DW22A (A2L0739-55)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.05	---	0.200	ug/L	1	12/20/22 17:36	EPA 200.8	
22391300-072CF22A (A2L0739-56)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.532	---	0.200	ug/L	1	12/20/22 17:40	EPA 200.8	
22391300-073DW22A (A2L0739-57)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.479	---	0.200	ug/L	1	12/20/22 17:43	EPA 200.8	
22391300-074CF22A (A2L0739-58)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.764	---	0.200	ug/L	1	12/20/22 17:46	EPA 200.8	
22391300-075DW22A (A2L0739-59)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.944	---	0.200	ug/L	1	12/20/22 17:50	EPA 200.8	
22391300-076CF22A (A2L0739-60)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.603	---	0.200	ug/L	1	12/20/22 18:02	EPA 200.8	
22391300-077DW22A (A2L0739-61)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.948	---	0.200	ug/L	1	12/20/22 18:06	EPA 200.8	
22391300-078CF22A (A2L0739-62)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	0.725	---	0.200	ug/L	1	12/20/22 18:10	EPA 200.8	
22391300-079DW22A (A2L0739-63)				Matrix: Drinking Water				
Batch: 22L0705								
Lead	1.15	---	0.200	ug/L	1	12/20/22 18:14	EPA 200.8	
22391300-080CF22A (A2L0739-64)				Matrix: Drinking Water				

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-080CF22A (A2L0739-64)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	1.29	---	0.200	ug/L	1	12/20/22 18:29	EPA 200.8	
22391300-081DW22A (A2L0739-65)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.952	---	0.200	ug/L	1	12/20/22 18:50	EPA 200.8	
22391300-082CF22A (A2L0739-66)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	4.50	---	0.200	ug/L	1	12/20/22 18:54	EPA 200.8	
22391300-083DW22A (A2L0739-67)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	1.19	---	0.200	ug/L	1	12/20/22 18:58	EPA 200.8	
22391300-084CF22A (A2L0739-68)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	1.35	---	0.200	ug/L	1	12/20/22 19:02	EPA 200.8	
22391300-085DW22A (A2L0739-69)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.510	---	0.200	ug/L	1	12/20/22 19:06	EPA 200.8	
22391300-086CF22A (A2L0739-70)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.666	---	0.200	ug/L	1	12/20/22 19:09	EPA 200.8	
22391300-087DW22A (A2L0739-71)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.932	---	0.200	ug/L	1	12/20/22 19:12	EPA 200.8	
22391300-088CF22A (A2L0739-72)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	2.33	---	0.200	ug/L	1	12/20/22 19:16	EPA 200.8	
22391300-089DW22A (A2L0739-73)				Matrix: Drinking Water				

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-089DW22A (A2L0739-73)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.822	---	0.200	ug/L	1	12/20/22 19:20	EPA 200.8	
22391300-090CF22A (A2L0739-74)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.960	---	0.200	ug/L	1	12/20/22 19:24	EPA 200.8	
22391300-091DW22A (A2L0739-75)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.840	---	0.200	ug/L	1	12/20/22 19:36	EPA 200.8	
22391300-092CF22A (A2L0739-76)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	1.97	---	0.200	ug/L	1	12/20/22 19:40	EPA 200.8	
22391300-093WB22A (A2L0739-77)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	ND	---	0.200	ug/L	1	12/20/22 19:44	EPA 200.8	
22391300-094DW22A (A2L0739-78)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	ND	---	0.200	ug/L	1	12/20/22 19:48	EPA 200.8	
22391300-095BF22A (A2L0739-79)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.860	---	0.200	ug/L	1	12/20/22 19:51	EPA 200.8	
22391300-096BF22A (A2L0739-80)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.721	---	0.200	ug/L	1	12/20/22 19:55	EPA 200.8	
22391300-097BF22A (A2L0739-81)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.545	---	0.200	ug/L	1	12/20/22 19:58	EPA 200.8	
22391300-098BF22A (A2L0739-82)				Matrix: Drinking Water				

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**
4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:**
A2L0739 - 12 29 22 1051**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
22391300-098BF22A (A2L0739-82)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.450	---	0.200	ug/L	1	12/20/22 20:02	EPA 200.8	
22391300-099BF22A (A2L0739-83)				Matrix: Drinking Water				
Batch: 22L0706								
Lead	0.574	---	0.200	ug/L	1	12/20/22 20:05	EPA 200.8	
22391300-0100BF22A (A2L0739-84)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	0.916	---	0.200	ug/L	1	12/20/22 20:28	EPA 200.8	
22391300-0101BF22A (A2L0739-85)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	0.619	---	0.200	ug/L	1	12/20/22 20:40	EPA 200.8	
22391300-0102BF22A (A2L0739-86)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	0.648	---	0.200	ug/L	1	12/20/22 20:44	EPA 200.8	
22391300-0103BF22A (A2L0739-87)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	0.592	---	0.200	ug/L	1	12/20/22 20:47	EPA 200.8	
22391300-0104DW22A (A2L0739-88)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	1.36	---	0.200	ug/L	1	12/20/22 20:50	EPA 200.8	
22391300-0105DW22A (A2L0739-89)				Matrix: Drinking Water				
Batch: 22L0709								
Lead	0.631	---	0.200	ug/L	1	12/20/22 20:54	EPA 200.8	

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ANALYTICAL REPORT

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ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel Elementary School
Project Manager: Dale VoellerReport ID:
A2L0739 - 12 29 22 1051

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 22L0692 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0692-BLK1)						Prepared: 12/20/22 08:19 Analyzed: 12/20/22 12:34						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0692-BS1)						Prepared: 12/20/22 08:19 Analyzed: 12/20/22 12:37						
EPA 200.8												
Lead	15.5	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	
Duplicate (22L0692-DUP1)						Prepared: 12/20/22 08:19 Analyzed: 12/20/22 12:45						
QC Source Sample: 22391300-015DW22A (A2L0739-01)												
EPA 200.8												
Lead	1.75	---	0.200	ug/L	1	---	1.76	---	---	0.2	20%	
Matrix Spike (22L0692-MS1)						Prepared: 12/20/22 08:19 Analyzed: 12/20/22 12:49						
QC Source Sample: 22391300-015DW22A (A2L0739-01)												
EPA 200.8												
Lead	17.2	---		ug/L	1	14.9	1.75	104	70 - 130%	---	---	
Matrix Spike (22L0692-MS2)						Prepared: 12/20/22 08:19 Analyzed: 12/20/22 14:19						
QC Source Sample: 22391300-036DW22A (A2L0739-21)												
EPA 200.8												
Lead	16.8	---		ug/L	1	14.9	1.18	104	70 - 130%	---	---	
Batch 22L0697 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L0697-BLK1)						Prepared: 12/20/22 09:23 Analyzed: 12/20/22 14:23						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0697-BS1)						Prepared: 12/20/22 09:23 Analyzed: 12/20/22 14:27						
EPA 200.8												
Lead	15.8	---	0.201	ug/L	1	15.0	---	105	85 - 115%	---	---	
Duplicate (22L0697-DUP1)						Prepared: 12/20/22 09:23 Analyzed: 12/20/22 14:41						
QC Source Sample: 22391300-037CF22A (A2L0739-22)												

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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 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051**

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 22L0697 - EPA 200.8 Direct Analysis							Drinking Water					
Duplicate (22L0697-DUP1)		Prepared: 12/20/22 09:23		Analyzed: 12/20/22 14:41								
QC Source Sample: 22391300-037CF22A (A2L0739-22)												
EPA 200.8												
Lead	1.03	---	0.200	ug/L	1	---	1.03	---	---	0.2	20%	
Matrix Spike (22L0697-MS1)		Prepared: 12/20/22 09:23		Analyzed: 12/20/22 14:45								
QC Source Sample: 22391300-037CF22A (A2L0739-22)												
EPA 200.8												
Lead	16.7	---		ug/L	1	14.9	1.02	105	70 - 130%	---	---	
Matrix Spike (22L0697-MS2)		Prepared: 12/20/22 09:23		Analyzed: 12/20/22 16:17								
QC Source Sample: 22391300-058BF22A (A2L0739-42)												
EPA 200.8												
Lead	16.3	---		ug/L	1	14.9	0.750	104	70 - 130%	---	---	

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ANALYTICAL REPORT

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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: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2L0739 - 12 29 22 1051

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 22L0699 - EPA 3015A						Drinking Water						
Blank (22L0699-BLK1)		Prepared: 12/20/22 09:31		Analyzed: 12/21/22 04:49								
EPA 200.8												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	
LCS (22L0699-BS1)		Prepared: 12/20/22 09:31		Analyzed: 12/21/22 04:54								
EPA 200.8												
Lead	16.5	---	0.222	ug/L	1	16.7	---	99	85 - 115%	---	---	

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel Elementary School
Project Manager: Dale VoellerReport ID:
A2L0739 - 12 29 22 1051

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 22L0705 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0705-BLK1)		Prepared: 12/20/22 11:01 Analyzed: 12/20/22 16:29										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0705-BS1)		Prepared: 12/20/22 11:01 Analyzed: 12/20/22 16:33										
<u>EPA 200.8</u>												
Lead	16.0	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	
Duplicate (22L0705-DUP1)		Prepared: 12/20/22 11:01 Analyzed: 12/20/22 16:41										
<u>QC Source Sample: 22391300-059SF22A (A2L0739-43)</u>												
<u>EPA 200.8</u>												
Lead	2.68	---	0.200	ug/L	1	---	2.67	---	---	0.6	20%	
Matrix Spike (22L0705-MS1)		Prepared: 12/20/22 11:01 Analyzed: 12/20/22 16:45										
<u>QC Source Sample: 22391300-059SF22A (A2L0739-43)</u>												
<u>EPA 200.8</u>												
Lead	18.5	---		ug/L	1	14.9	2.65	106	70 - 130%	---	---	
Matrix Spike (22L0705-MS2)		Prepared: 12/20/22 11:01 Analyzed: 12/20/22 18:18										
<u>QC Source Sample: 22391300-079DW22A (A2L0739-63)</u>												
<u>EPA 200.8</u>												
Lead	17.1	---		ug/L	1	14.9	1.15	107	70 - 130%	---	---	

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Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel Elementary School
Project Manager: Dale VoellerReport ID:
A2L0739 - 12 29 22 1051

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 22L0706 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0706-BLK1)		Prepared: 12/20/22 11:04 Analyzed: 12/20/22 18:22										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0706-BS1)		Prepared: 12/20/22 11:04 Analyzed: 12/20/22 18:25										
<u>EPA 200.8</u>												
Lead	16.1	---	0.201	ug/L	1	15.0	---	107	85 - 115%	---	---	
Duplicate (22L0706-DUP1)		Prepared: 12/20/22 11:04 Analyzed: 12/20/22 18:33										
<u>QC Source Sample: 22391300-080CF22A (A2L0739-64)</u>												
<u>EPA 200.8</u>												
Lead	1.29	---	0.200	ug/L	1	---	1.29	---	---	0.6	20%	
Matrix Spike (22L0706-MS1)		Prepared: 12/20/22 11:04 Analyzed: 12/20/22 18:37										
<u>QC Source Sample: 22391300-080CF22A (A2L0739-64)</u>												
<u>EPA 200.8</u>												
Lead	17.4	---		ug/L	1	14.9	1.29	108	70 - 130%	---	---	
Matrix Spike (22L0706-MS2)		Prepared: 12/20/22 11:04 Analyzed: 12/20/22 20:08										
<u>QC Source Sample: 22391300-099BF22A (A2L0739-83)</u>												
<u>EPA 200.8</u>												
Lead	16.7	---		ug/L	1	14.9	0.571	108	70 - 130%	---	---	

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503-718-2323
ORELAP ID: OR100062**PBS Engineering and Environmental**4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051**

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 22L0709 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (22L0709-BLK1)		Prepared: 12/20/22 11:06			Analyzed: 12/20/22 20:21							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22L0709-BS1)		Prepared: 12/20/22 11:06			Analyzed: 12/20/22 20:24							
EPA 200.8												
Lead	16.4	---	0.201	ug/L	1	15.0	---	109	85 - 115%	---	---	
Duplicate (22L0709-DUP1)		Prepared: 12/20/22 11:06			Analyzed: 12/20/22 20:32							
QC Source Sample: 22391300-0100BF22A (A2L0739-84)												
EPA 200.8												
Lead	0.912	---	0.200	ug/L	1	---	0.916	---	---	0.4	20%	
Matrix Spike (22L0709-MS1)		Prepared: 12/20/22 11:06			Analyzed: 12/20/22 20:36							
QC Source Sample: 22391300-0100BF22A (A2L0739-84)												
EPA 200.8												
Lead	19.2	---		ug/L	1	14.9	0.911	123	70 - 130%	---	---	

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****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: 22L0692</u>							
A2L0739-01	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-02	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-03	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-04	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-05	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-06	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-08	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-09	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-10	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-11	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-12	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-13	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-14	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-15	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-16	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-17	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-18	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-19	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-20	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
A2L0739-21	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 08:19	10mL/10mL	10mL/10mL	1.00
<u>Batch: 22L0697</u>							
A2L0739-22	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-23	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-24	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-25	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-26	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-27	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-28	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-29	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-30	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-31	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-32	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-33	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-34	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-35	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-36	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental4412 S Corbett Ave
Portland, OR 97239Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****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
A2L0739-37	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-38	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-39	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-41	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
A2L0739-42	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:23	10mL/10mL	10mL/10mL	1.00
<u>Batch: 22L0705</u>							
A2L0739-43	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-44	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-45	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-46	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-47	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-48	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-50	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-51	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-52	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-53	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-54	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-55	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-56	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-57	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-58	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-59	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-60	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-61	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-62	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
A2L0739-63	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:01	10mL/10mL	10mL/10mL	1.00
<u>Batch: 22L0706</u>							
A2L0739-64	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-65	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-66	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-67	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-68	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-69	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-70	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-71	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-72	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00

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**ANALYTICAL REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062****PBS Engineering and Environmental****4412 S Corbett Ave
Portland, OR 97239**Project: **Hillsboro School District**Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller****Report ID:****A2L0739 - 12 29 22 1051****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
A2L0739-73	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-74	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-75	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-76	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-77	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-78	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-79	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-80	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-81	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-82	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00
A2L0739-83	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:04	10mL/10mL	10mL/10mL	1.00

Batch: 22L0709

A2L0739-84	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00
A2L0739-85	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00
A2L0739-86	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00
A2L0739-87	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00
A2L0739-88	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00
A2L0739-89	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 11:06	10mL/10mL	10mL/10mL	1.00

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22L0699</u>							
A2L0739-07	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:31	45mL/50mL	10mL/10mL	1.11
A2L0739-40	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:31	45mL/50mL	10mL/10mL	1.11
A2L0739-49	Drinking Water	EPA 200.8	12/17/22 00:00	12/20/22 09:31	45mL/50mL	10mL/10mL	1.11

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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel Elementary School
Project Manager: Dale Voeller

Report ID:

A2L0739 - 12 29 22 1051

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

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Jason Woodcock, Project Manager



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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2L0739 - 12 29 22 1051

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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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental

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Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2L0739 - 12 29 22 1051

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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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

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

Project: **Hillsboro School District**
Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:
A2L0739 - 12 29 22 1051

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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PBS Engineering and Environmental

 4412 S Corbett Ave
 Portland, OR 97239

 Project: **Hillsboro School District**

 Project Number: **Witch Hazel Elementary School**
 Project Manager: **Dale Voeller**
Report ID:
A2L0739 - 12 29 22 1051
Lead in Drinking Water Testing Program

 Date Collected: 12/17/2022

 PBS Project: 23440.164 / 0003

 School Name: Witch Hazel Elementary School - Round 3

 Building: Main Building

 Building Number: 22391300

 Analysis Requested: Lead (Pb) in Drinking Water

 Email Results To: voeller@pbsusa.com

 Turnaround Time: 10-day

	Fixture Number	Sample Number	Room / Location
1	015	22391300-015DW22A	Music Room drinking fountain
2	016	22391300-016CF22A	Music Room sink faucet
3	017	22391300-017BF22A	Kitchen restroom sink faucet
4	018	22391300-018NS22A	Health Room east (left side) sink faucet
5	019	22391300-019NS22A	Health Room west (right side) sink faucet
6	020	22391300-020BF22A	Health Room restroom sink faucet
7	021	22391300-021SF22A	Work Room sink faucet
8	022	22391300-022BF22A	Office area east (left) staff restroom - sink faucet
9	023	22391300-023BF22A	Office area west (right) staff restroom - sink faucet
10	024	22391300-024SF22A	Staff lounge - hot water dispenser
11	025	22391300-025SF22A	Staff lounge - sink faucet
12	026	22391300-026SF22A	Staff lounge - sink sprayer
13	027	No sample	Room 102 drinking fountain (not working)
14	028	22391300-028CF22A	Room 102 classroom faucet
15	029	22391300-029BF22A	Room 102 restroom sink faucet
16	030	22391300-030DW22A	Room 103 west side (left) drinking fountain
17	031	22391300-031CF22A	Room 103 west side (left) classroom faucet
18	032	22391300-032DW22A	Room 103 east side (right) drinking fountain
19	033	22391300-033CF22A	Room 103 east side (right) classroom faucet
20	034	22391300-034DW22A	Room 104 drinking fountain

1 of 4

Apex Laboratories



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PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A2L0739 - 12 29 22 1051

A2L0739
Hillsboro School District

Lead in Drinking Water Testing Program

Date Collected: 12/17/2022 School Name: Witch Hazel Elementary School

Room / Location	Fixture Number	Sample Number	Room / Location
Room 104 classroom faucet	21 035	22391300-035CF22A	Room 104 classroom faucet
Room 105 drinking fountain	22 036	22391300-036DW22A	Room 105 drinking fountain
Room 105 classroom faucet	23 037	22391300-037CF22A	Room 105 classroom faucet
Room 106 drinking fountain	24 038	22391300-038DW22A	Room 106 drinking fountain
Room 106 classroom faucet	25 039	22391300-039CF22A	Room 106 classroom faucet
Room 107 drinking fountain	26 040	22391300-040DW22A	Room 107 drinking fountain
Room 107 classroom faucet	27 041	22391300-041CF22A	Room 107 classroom faucet
Room 108 drinking fountain	28 042	22391300-042DW22A	Room 108 drinking fountain
Room 108 classroom faucet	29 043	22391300-043CF22A	Room 108 classroom faucet
Room 109 drinking fountain	30 044	22391300-044DW22A	Room 109 drinking fountain
Room 109 classroom faucet	31 045	22391300-045CF22A	Room 109 classroom faucet
Room 110 drinking fountain	32 046	22391300-046DW22A	Room 110 drinking fountain
Room 110 classroom faucet	33 047	22391300-047CF22A	Room 110 classroom faucet
Room 111 drinking fountain	34 048	22391300-048DW22A	Room 111 drinking fountain
Room 111 classroom faucet	35 049	22391300-049CF22A	Room 111 classroom faucet
Room 112 drinking fountain	36 050	22391300-050DW22A	Room 112 drinking fountain
Room 112 classroom faucet	37 051	22391300-051CF22A	Room 112 classroom faucet
1st floor east drinking fountains - left	38 052	22391300-052DW22A	1st floor east drinking fountains - left
1st floor east drinking fountains - right (not working)	39 053	No sample	1st floor east drinking fountains - right (not working)
1st floor east boys restroom - left sink faucet	40 054	22391300-054BF22A	1st floor east boys restroom - left sink faucet
1st floor east boys restroom - right sink faucet	41 055	22391300-055BF22A	1st floor east boys restroom - right sink faucet
1st floor east staff restroom sink faucet	42 056	22391300-056BF22A	1st floor east staff restroom sink faucet
1st floor east girls restroom - left sink faucet	43 057	22391300-057BF22A	1st floor east girls restroom - left sink faucet
1st floor east girls restroom - right sink faucet	44 058	22391300-058BF22A	1st floor east girls restroom - right sink faucet
Media Center workroom sink faucet	45 059	22391300-059SF22A	Media Center workroom sink faucet
1st floor west boys restroom - left sink faucet	46 060	22391300-060BF22A	1st floor west boys restroom - left sink faucet
1st floor west boys restroom - right sink faucet	47 061	22391300-061BF22A	1st floor west boys restroom - right sink faucet
1st floor west girls restroom - left sink faucet	48 062	22391300-062BF22A	1st floor west girls restroom - left sink faucet
1st floor west girls restroom - right sink faucet	49 063	22391300-063BF22A	1st floor west girls restroom - right sink faucet
1st floor west drinking fountains - left (not working)	50 064	22391300-064DW22A	1st floor west drinking fountains - left (not working)

PBS

PBS Engineering and Environmental

 4412 S Corbett Ave
 Portland, OR 97239

 Project: **Hillsboro School District**

 Project Number: **Witch Hazel Elementary School**
 Project Manager: **Dale Voeller**
Report ID:
A2L0739 - 12 29 22 1051

Lead in Drinking Water Testing Program

Hillsboro School District

 Date Collected: 12/17/2022

 School Name: Witch Hazel Elementary School

	Fixture Number	Sample Number	Room / Location
51	065	22391300-065DW22A	1 st floor west drinking fountains - right
52	066	22391300-066DW22A	Room 101 drinking fountain
53	067	22391300-067CF22A	Room 101 classroom faucet
54	068	22391300-068BF22A	Room 101 restroom sink faucet
55	069	22391300-069DW22A	Room 201 drinking fountain
56	070	22391300-070CF22A	Room 201 classroom faucet
57	071	22391300-071DW22A	Room 202 drinking fountain
58	072	22391300-072CF22A	Room 202 classroom faucet
59	073	22391300-073DW22A	Room 203 drinking fountain
60	074	22391300-074CF22A	Room 203 classroom faucet
61	075	22391300-075DW22A	Room 204 drinking fountain
62	076	22391300-076CF22A	Room 204 classroom faucet
63	077	22391300-077DW22A	Room 205 drinking fountain
64	078	22391300-078CF22A	Room 205 classroom faucet
65	079	22391300-079DW22A	Room 206 drinking fountain
66	080	22391300-080CF22A	Room 206 classroom faucet
67	081	22391300-081DW22A	Room 207 drinking fountain
68	082	22391300-082CF22A	Room 207 classroom faucet
69	083	22391300-083DW22A	Room 208 drinking fountain
70	084	22391300-084CF22A	Room 208 classroom faucet
71	085	22391300-085DW22A	Room 209 drinking fountain
72	086	22391300-086CF22A	Room 209 classroom faucet
73	087	22391300-087DW22A	Room 210 drinking fountain
74	088	22391300-088CF22A	Room 210 classroom faucet
75	089	22391300-089DW22A	Room 211 drinking fountain
76	090	22391300-090CF22A	Room 211 classroom faucet
77	091	22391300-091DW22A	Room 212 drinking fountain
78	092	22391300-092CF22A	Room 212 classroom faucet
79	093	22391300-093WB22A	2 nd floor east, water bottle filler
80	094	22391300-094DW22A	2 nd floor east, drinking fountain



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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

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**

Project Manager: **Dale Voeller**

Report ID:

A2L0739 - 12 29 22 1051

Lead in Drinking Water Testing Program

Hillsboro School District

Date Collected: 12/17/2022

School Name: Witch Hazel Elementary School

	Fixture Number	Sample Number	Room / Location
81	095	22391300-095BF22A	2nd floor east boys restroom – left sink faucet
82	096	22391300-096BF22A	2nd floor east boys restroom – right sink faucet
83	097	22391300-097BF22A	2nd floor east staff restroom sink faucet
84	098	22391300-098BF22A	2nd floor east girls restroom – left sink faucet
85	099	22391300-099BF22A	2nd floor east girls restroom – right sink faucet
86	100	22391300-0100BF22A	2nd floor west boys restroom – left sink faucet
87	101	22391300-0101BF22A	2nd floor west boys restroom – right sink faucet
88	102	22391300-0102BF22A	2nd floor west girls restroom – left sink faucet
89	103	22391300-0103BF22A	2nd floor west girls restroom – right sink faucet
90	104	22391300-0104DW22A	2nd floor west drinking fountains – left drinking fountain
91	105	22391300-0105DW22A	2nd floor west drinking fountains – right drinking fountain
92			
93			
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110			

Relinquished By/Signature

Date/Time: 12/17/22 @ 3:46 PM

Received By/Signature

Date/Time: 12/19/22 @ 11:55



4 of 4

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

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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: Witch Hazel Elementary Sch

Project Manager: Dale Voeller

Report ID:

A2L0739 - 12 29 22 1051

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A2L0739Project/Project #: Witch Hazel Elementary School - Round 3 / 23440-10A/0003

Delivery Info:

Date/time received: 12-19-22 11:55 AM @ 11:55 By: AJMDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 12-19-22 @ 12:26 By: AJMChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>17.1</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>None</u>						
Condition (In/Out)	<u>Out</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking WaterGreen dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 12/19/22 @ 11:30 By: RHPAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☐ No ☒ Comments: prefixes vary on containers, IDs vary 0A-22340460-1008F-22A, 223904COC/container discrepancies form initiated? Yes ☐ No ☒ RHP 12/19Containers/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:

afous

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
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503-718-2323
ORELAP ID: OR100062

Monday, January 30, 2023

Dale Voeller

PBS Engineering and Environmental

4412 S Corbett Ave

Portland, OR 97239

RE: A3A0661 - Hillsboro School District - Witch Hazel Elementary School/23440.164

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 A3A0661, 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
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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

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel Elementary School
Project Manager: Dale Voeller

Report ID:

A3A0661 - 01 30 23 1407

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22391300-053DW23A	A3A0661-01	Drinking Water	01/14/23 00:00	01/17/23 13:10

Apex Laboratories

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ANALYTICAL REPORT

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Portland, OR 97239

Project: Hillsboro School District

Project Number: Witch Hazel Elementary School
Project Manager: Dale Voeller

Report ID:

A3A0661 - 01 30 23 1407

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
22391300-053DW23A (A3A0661-01)				Matrix: Drinking Water				
Batch: 23A0856								
Lead	5.44	---	0.200	ug/L	1	01/27/23 16:40	EPA 200.8	

Apex Laboratories

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239Project: Hillsboro School District
Project Number: Witch Hazel Elementary School
Project Manager: Dale VoellerReport ID:
A3A0661 - 01 30 23 1407

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 23A0856 - EPA 200.8 Direct Analysis							Drinking Water					
Blank (23A0856-BLK1)		Prepared: 01/24/23 09:38 Analyzed: 01/27/23 16:25										
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23A0856-BS1)		Prepared: 01/24/23 09:38 Analyzed: 01/27/23 16:29										
EPA 200.8												
Lead	15.3	---	0.201	ug/L	1	15.0	---	102	85 - 115%	---	---	
Duplicate (23A0856-DUP1)		Prepared: 01/24/23 09:38 Analyzed: 01/27/23 16:44										
QC Source Sample: 22391300-053DW23A (A3A0661-01)												
EPA 200.8												
Lead	5.37	---	0.200	ug/L	1	---	5.44	---	---	1	20%	
Matrix Spike (23A0856-MS1)		Prepared: 01/24/23 09:38 Analyzed: 01/27/23 16:48										
QC Source Sample: 22391300-053DW23A (A3A0661-01)												
EPA 200.8												
Lead	20.6	---	0.201	ug/L	1	15.0	5.44	101	70 - 130%	---	---	

Apex Laboratories

Jason Woodcock, Project Manager

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503-718-2323

ORELAP ID: OR100062

PBS Engineering and Environmental

4412 S Corbett Ave
Portland, OR 97239

Project: **Hillsboro School District**

Project Number: **Witch Hazel Elementary School**
Project Manager: **Dale Voeller**

Report ID:

A3A0661 - 01 30 23 1407

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: 23A0856</u>							
A3A0661-01	Drinking Water	EPA 200.8	01/14/23 00:00	01/24/23 09:38	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Jason Woodcock, Project Manager

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

There are No Qualifiers on Sample or QC Data for this report

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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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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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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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APEX LABS COOLER RECEIPT FORM

Client: PBS - PORTLAND Element WO#: A3A0661Project/Project #: Witch Hazel Elementary School - Round 4

Delivery Info:

Date/time received: 1/17/23 @ 1310 By: SATDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 1/17/23 @ 1355 By: SATChain 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? ☒ Possible reason why: Drinking WaterGreen dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 1/19/23 @ 11:28 By: KAMAll 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: KAM Witness: DSS Cooler Inspected by: KAM

Form Y-003 R-00

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