



June 7, 2023

Brent Perrin
Reynolds School District
1204 NE 201st Avenue
Fairview, Oregon 97024

Via email: BPerrin@rsd7.net

Regarding: Drinking Water Sampling Report
 Alder Elementary School
 17200 SE Alder St
 Portland, OR
 PBS Project 23514.186

Mr. Perrin:

In May 2023, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling and analysis for lead at Alder Elementary School in Portland, Oregon. The testing was requested by Reynolds School District (the District) to meet requirements from the Oregon Department of Education (ODE) and Oregon Health Authority (OHA) to conduct testing for lead in school drinking water systems.

Background and Sampling Procedure

Oregon Administrative Rule (OAR) 333-061-0400 *Reducing Lead In School Drinking Water* requires school districts to conduct initial testing for lead from each qualifying tap.

The sampling methodology followed the protocol described in Section 4 of the EPA document *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018* and guidelines established by Oregon Health Authority and Oregon Department of Education. Following these guidelines, PBS assigned identification numbers and collected first draw samples from each test location. First draw samples consist of the first 250 milliliters (mL) of water drawn from a fixture during an early morning after school was in session the previous day, and before the fixture has been used again in the morning. The 3Ts' sampling protocol is designed to maximize the likelihood that the highest concentrations of lead in water used for consumption are identified.

PBS tested all taps in the building(s) eligible for testing according to OAR 333-061-0400, which requires testing of all taps except the following: shower heads, pipes used for building heating, dedicated eyewash stations and emergency showers, fixtures in areas with no student access used solely for sanitation by staff, fixtures used exclusively for irrigation, and fixtures in science and technical education classrooms (grades 6-12) where the fixtures have signage indicating they are not a drinking water source and are not intended for use in food preparation.

PBS assigned sample numbers to fixtures according to the ODE naming convention and using the ODE district and building codes provided by the District to PBS. When multiple samples were collected in the same area, PBS assigned numbers and sampled in a clockwise fashion starting on the left.

The District has previously completed some testing, but did not test all fixtures that are now required to be tested by ODE and did not use the sample naming convention now used by ODE, as ODE rules have changed since 2016.

Results

First draw samples were collected from 86 fixtures and delivered under chain of custody to Apex Laboratories in Tigard, Oregon, for lead analysis using EPA Method 200.8 ICPMS. An additional 2 fixtures were inventoried but could not be sampled. Samples above the action level of 15 ppb are shown in bold. The following table lists the results of the analysis.

Table 1: Alder Elementary School - Sample Results

Fixture Number	Sample Number	Location / Room No.	Fixture Type	Results (ppb)
001	21820100-001KF23A	Kitchen, island north sinks, east	Kitchen faucet	0.487
002	21820100-002KF23A	Kitchen, island, north sinks west	Kitchen faucet	1.06
003	21820100-003KF23A	Kitchen, island, south sinks	Kitchen faucet	0.999
004	21820100-004KF23A	Kitchen, west wall, sink	Kitchen faucet	1.59
005	21820100-005BF23A	Gym building second floor boy's restroom	Bathroom faucet	ND
006	21820100-006CF23A	Room 9	Classroom faucet	1.60
007	21820100-007DW23A	Room 9	Drinking fountain	0.790
008	21820100-008CF23A	Room 10	Classroom faucet	3.01
010	21820100-010CF23A	Room 11	Classroom faucet	5.22
011	21820100-011DW23A	Room 11	Drinking fountain	1.25
012	21820100-012CF23A	Room 8	Classroom faucet	4.36
013	21820100-013DW23A	Room 8	Drinking fountain	0.560
014	21820100-014SF23A	Gym building second floor custodial office	Staff faucet	66.7
015	21820100-015CF23A	Room 12	Classroom faucet	0.425
016	21820100-016CF23A	Room 12	Classroom faucet	0.287
017	21820100-017DW23A	NW Hallway west hall	Drinking fountain	ND
018	21820100-018WB23A	NW Hallway west hall	Water bottle fill	ND
019	21820100-019BF23A	NW hallway boy's restroom	Bathroom faucet	2.14
020	21820100-020BF23A	NW hallway girl's restroom	Bathroom faucet	0.517
021	21820100-021CF23A	Room 7	Classroom faucet	110
022	21820100-022CF23A	Room 13	Classroom faucet	1.69
023	21820100-023DW23A	Room 13	Drinking fountain	0.703
024	21820100-024CF23A	Room 14	Classroom faucet	3.62
025	21820100-025DW23A	Room 14	Drinking fountain	0.947
026	21820100-026CF23A	Room 6	Classroom faucet	5.18
027	21820100-027DW23A	Room 6	Drinking fountain	1.68
028	21820100-028CF23A	Room 5	Classroom faucet	3.53
030	21820100-030CF23A	Room 15	Classroom faucet	4.44
031	21820100-031DW23A	Room 15	Drinking fountain	2.21
032	21820100-032CF23A	Room 4	Classroom faucet	13.2
033	21820100-033DW23A	Room 4	Drinking fountain	1.79

Fixture Number	Sample Number	Location / Room No.	Fixture Type	Results (ppb)
034	21820100-034CF23A	Room 3	Classroom faucet	4.08
035	21820100-035DW23A	Room 3	Drinking fountain	1.01
036	21820100-036DW23A	North hallway east side	Drinking fountain	ND
037	21820100-037WB23A	North hallway east side	Water bottle fill	ND
038	21820100-038BF23A	North hallway east girl's restroom	Bathroom faucet	0.638
039	21820100-039SF23A	North hallway east faculty restroom	Staff faucet	0.632
040	21820100-040BF23A	North hallway east boy's restroom	Bathroom faucet	1.28
041	21820100-041CF23A	Room 2	Classroom faucet	8.83
042	21820100-042DW23A	Room 2	Drinking fountain	1.04
043	21820100-043CF23A	Room 1	Classroom faucet	11.8
044	21820100-044DW23A	Room 1	Drinking fountain	9.36
045	21820100-045NS23A	Nurse	Nurse Sink	6.31
046	21820100-046SF23A	Faculty restroom by nurse	Staff faucet	2.69
047	21820100-047SF23A	Faculty work room	Staff faucet	193
048	21820100-048WB23A	Teacher's lounge	Water bottle fill	0.215
049	21820100-049SF23A	Teacher's lounge	Staff faucet	ND
050	21820100-050WB23A	Entry hall south	Water bottle fill	ND
051	21820100-051DW23A	Entry hall south	Drinking fountain	ND
052	21820100-052BF23A	South hall girl's restroom	Bathroom faucet	3.78
053	21820100-053BF23A	South hall boy's restroom	Bathroom faucet	2.02
054	21820100-054CF23A	Room 18	Classroom faucet	1.21
055	21820100-055DW23A	Room 18	Drinking fountain	1.13
056	21820100-056CF23A	Room 19	Classroom faucet	1.58
057	21820100-057DW23A	Room 19	Drinking fountain	2.91
058	21820100-058BF23A	Sun room restroom	Bathroom faucet	1.89
059	21820100-059BF23A	Sun room restroom	Bathroom faucet	0.776
060	21820100-060CF23A	Sun room	Classroom faucet	0.479
061	21820100-061CF23A	Room 21	Classroom faucet	1.87
062	21820100-062DW23A	Room 21	Drinking fountain	0.663
063	21820100-063CF23A	Room 22	Classroom faucet	1.13
064	21820100-064DW23A	Room 22	Drinking fountain	0.799
065	21820100-065CF23A	Room 23	Classroom faucet	1.04
066	21820100-066DW23A	Room 23	Drinking fountain	4.56
067	21820100-067DW23A	Room 24	Drinking fountain	1.80
068	21820100-068DW23A	Room 24	Drinking fountain	1.34
069	21820100-069SF23A	South hall west side faculty restroom	Staff faucet	2.09
070	21820100-070BF23A	South hall west girls restroom	Bathroom faucet	4.96
071	21820100-071WB23A	South hall west	Water bottle fill	ND
072	21820100-072DW23A	South hall west	Drinking fountain	ND
073	21820100-073DW23A	South hall west	Drinking fountain	ND
074	21820100-074BF23A	South hall west boy's restroom	Bathroom faucet	1.27

Fixture Number	Sample Number	Location / Room No.	Fixture Type	Results (ppb)
075	21820100-075BF23A	South hall west boy's restroom	Bathroom faucet	0.577
076	21820100-076CF23A	Room 25	Classroom faucet	1.22
077	21820100-077DW23A	Room 25	Drinking fountain	1.59
078	21820100-078CF23A	Room 26	Classroom faucet	1.71
079	21820100-079DW23A	Room 26	Drinking fountain	1.92
080	21820100-080CF23A	Room 27	Classroom faucet	1.18
081	21820100-081DW23A	Room 27	Drinking fountain	0.696
082	21820100-082CF23A	Room 28	Classroom faucet	1.01
083	21820100-083DW23A	Room 28	Drinking fountain	1.59
084	21820100-084CF23A	Room 29	Classroom faucet	4.40
085	21820100-085DW23A	Room 29	Drinking fountain	3.43
086	21820100-086CF23A	Room 30	Classroom faucet	3.83
087	21820100-087DW23A	Room 30	Drinking fountain	6.24
088	21820100-088CF23A	Room 31	Classroom faucet	30.8

ND = no lead detected

The following is a list of fixtures that could not be sampled by PBS, as they were either shut off or inaccessible. PBS assigned them a number in sequence so they can be sampled later if they are brought back online.

Table 2: Alder Elementary School – Fixtures Not Sampled

Fixture Number	Sample Number	Location / Room No.	Fixture Type
009	21820100-009DW	Room 10	Drinking fountain
029	21820100-029DW	Room 5	Drinking fountain

Elevated concentrations of lead were found in three fixtures throughout the building. Access to these fixtures should be restricted in accordance with Oregon and EPA guidelines. PBS recommends taking corrective action per recommendations in EPA's 3Ts Module 6. Given that the majority of fixtures in the building tested below 15.0, it is unlikely that there is a building-wide source of lead in drinking water beyond the fixtures themselves. However, EPA protocol recommends follow-up flush sampling at all locations where first-draw samples contain lead concentrations greater than 15 parts per billion (ppb). PBS also recommends either remediating the fixtures or installing a local filter, then flushing them and retesting in accordance with ODE guidelines. PBS is available to assist with further investigation and corrective actions upon request.

Please refer to the attached sample location field drawing and laboratory analytical report for additional details. The laboratory analytical results are reported in micrograms per liter (µg/L), a unit of measure that is equivalent to ppb.

Reimbursement

The District may be eligible for reimbursement from the State of Oregon for the cost of laboratory analytical testing and shipping, but not consultant fees. This is done by completing out the ODE's reimbursement template spreadsheet for each facility and submitting the information to ODE. PBS is available to assist with filing for reimbursement upon request, but it is not currently in our scope of work.

Ongoing Testing

According to OAR 333-061-0400, school districts are required to complete on-going testing at least once every six years, starting from July 1, 2020. Taps are exempt from ongoing testing if the tap was installed after January 4, 2014 and meets the lead-free standard of no more than 0.25 percent lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014 and the solder and flux meets the leadfree standard of no more than 0.2 percent lead; and was tested during initial testing and results were less than 1 ppb lead. The District should investigate whether any taps at this facility meet the requirements to suspend ongoing testing. The District should consult with ODE to determine when they should complete ongoing testing.

Please feel free to contact me at 503.515.7489 or james.mastanduno@pbsusa.com with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Mastanduno', written over a white background.

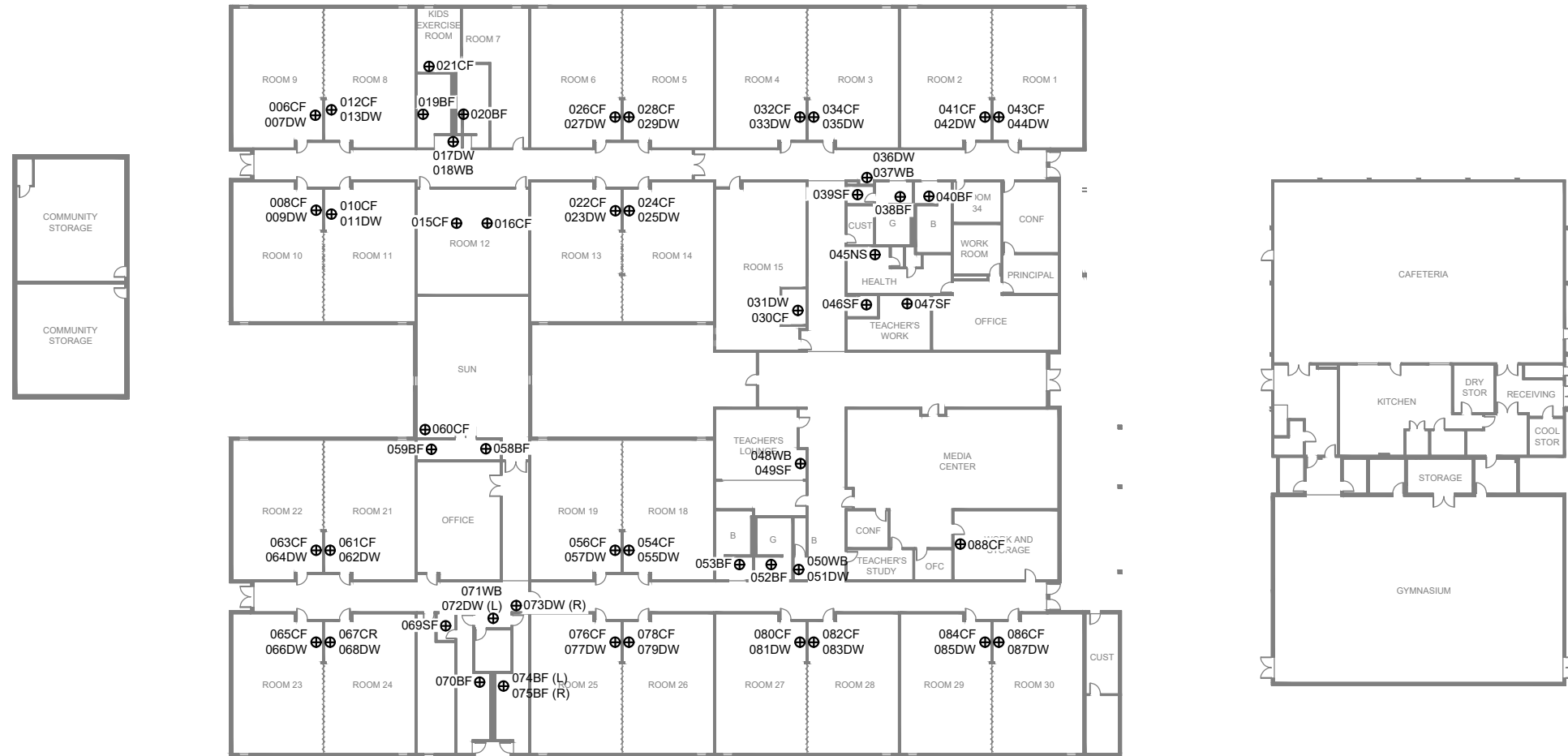
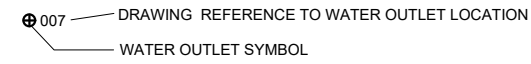
James Mastanduno
Project Manager

Attachments: Fixture Location Map
 Laboratory Analytical Report

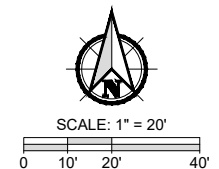
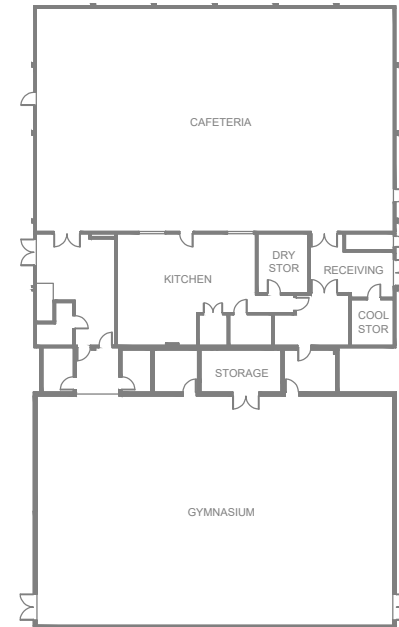
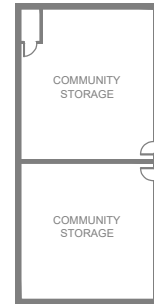
GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS INTENDED TO SHOW OUTLET NUMBERS AND LOCATIONS RELATED TO DRINKING WATER SAMPLING.
- IN SPACES WITH MULTIPLE OUTLETS, OUTLETS ARE NUMBERED CLOCKWISE FROM MAIN ENTRANCE UNLESS OTHERWISE SHOWN.

WATER OUTLET SYMBOLS



FIRST FLOOR



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FULL SIZE SHEET FORMAT IS 24X36; IF PRINTED SIZE IS NOT 24X36, THEN THIS SHEET FORMAT HAS BEEN MODIFIED & INDICATED DRAWING SCALE IS NOT ACCURATE.



ALDER ELEMENTARY SCHOOL
17200 SE ALDER STREET, PORTLAND, OREGON

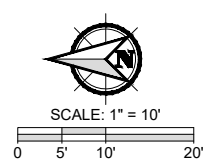
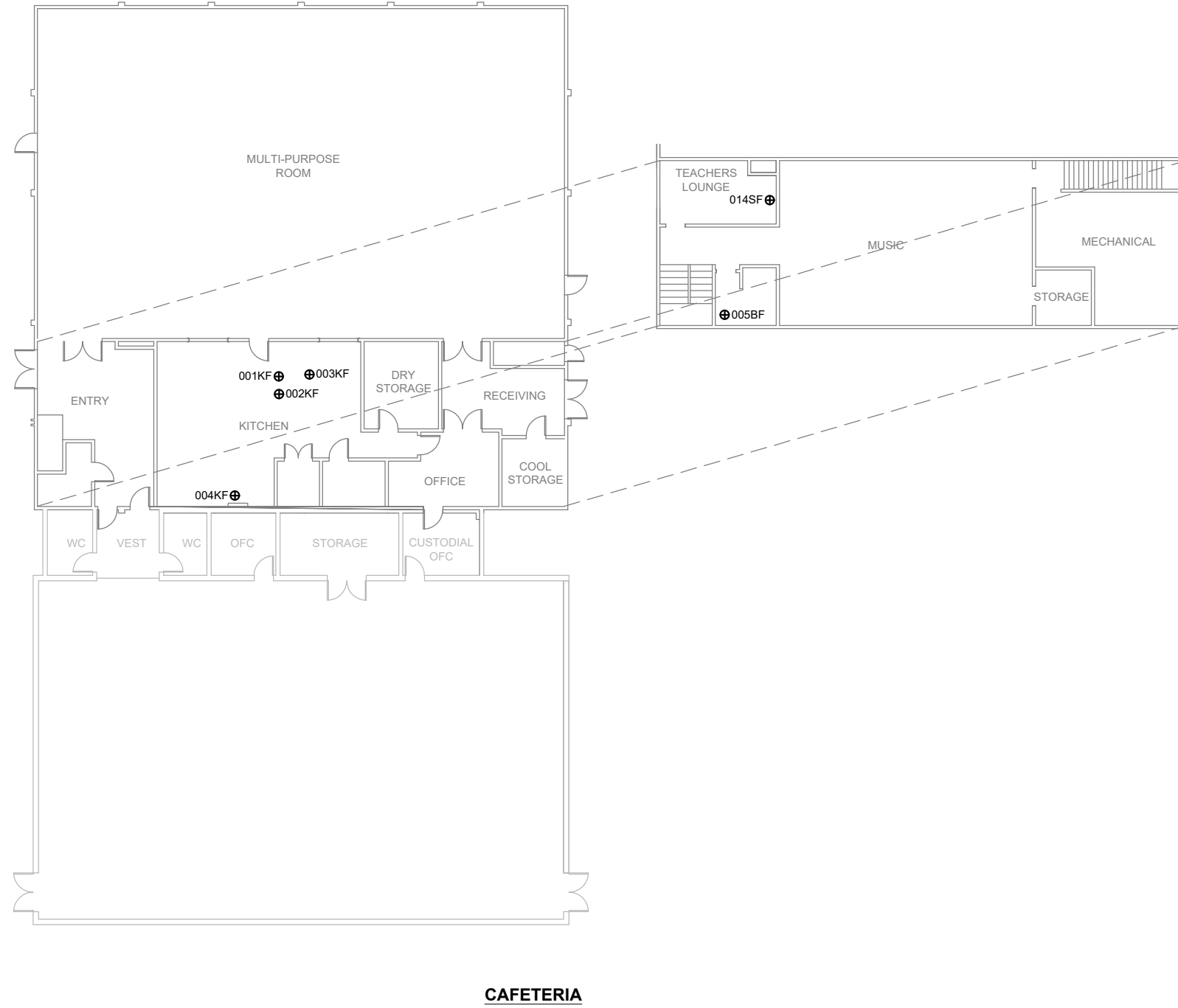
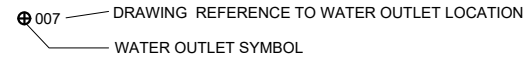
NO.	REVISION	DATE	BY	APPD
DRAWN BY: JAB				
CHECKED: JH				
DATE: MAY 2023				
PROJECT NUMBER: 23514.186 0001 001				
SHEET DRAWING NO: DW1				
SHEET 1 OF 2				

PREPARED FOR: REYNOLDS SCHOOL DISTRICT

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS INTENDED TO SHOW OUTLET NUMBERS AND LOCATIONS RELATED TO DRINKING WATER SAMPLING.
2. IN SPACES WITH MULTIPLE OUTLETS, OUTLETS ARE NUMBERED CLOCKWISE FROM MAIN ENTRANCE UNLESS OTHERWISE SHOWN.

WATER OUTLET SYMBOLS



ALDER ELEMENTARY SCHOOL
17200 SE ALDER STREET, PORTLAND, OREGON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB
 CHECKED: JH
 DATE: MAY 2023
 PROJECT NUMBER: 23514.186 0001 001
 SHEET DRAWING NO: **DW2**
 SHEET **2** OF **2**

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ANALYTICAL REPORT

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

Monday, June 5, 2023
James Mastanduno
PBS Engineering and Environmental
4412 S Corbett Ave
Portland, OR 97239

RE: A3E1577 - Reynolds School District - Alder Elementary/23514.186

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 A3E1577, which was received by the laboratory on 5/17/2023 at 12:02:00PM.

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 21.4 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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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: Reynolds School District Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21820100-001KF23A	A3E1577-01	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-002KF23A	A3E1577-02	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-003KF23A	A3E1577-03	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-004KF23A	A3E1577-04	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-005BF23A	A3E1577-05	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-006CF23A	A3E1577-06	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-007DW23A	A3E1577-07	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-008CF23A	A3E1577-08	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-010CF23A	A3E1577-10	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-011DW23A	A3E1577-11	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-012CF23A	A3E1577-12	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-013DW23A	A3E1577-13	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-014SF23A	A3E1577-14	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-015CF23A	A3E1577-15	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-016CF23A	A3E1577-16	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-017DW23A	A3E1577-17	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-018WB23A	A3E1577-18	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-019BF23A	A3E1577-19	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-020BF23A	A3E1577-20	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-021CF23A	A3E1577-21	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-022CF23A	A3E1577-22	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-023DW23A	A3E1577-23	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-024CF23A	A3E1577-24	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-025DW23A	A3E1577-25	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-026CF23A	A3E1577-26	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-027DW23A	A3E1577-27	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-028CF23A	A3E1577-28	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-030CF23A	A3E1577-30	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-031DW23A	A3E1577-31	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-032CF23A	A3E1577-32	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-033DW23A	A3E1577-33	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-034CF23A	A3E1577-34	Drinking Water	05/16/23 00:00	05/17/23 12:02

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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: Reynolds School District Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21820100-035DW23A	A3E1577-35	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-036DW23A	A3E1577-36	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-037WB23A	A3E1577-37	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-038BF23A	A3E1577-38	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-039SF23A	A3E1577-39	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-040BF23A	A3E1577-40	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-041CF23A	A3E1577-41	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-042DW23A	A3E1577-42	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-043CF23A	A3E1577-43	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-044DW23A	A3E1577-44	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-045NS23A	A3E1577-45	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-046SF23A	A3E1577-46	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-047SF23A	A3E1577-47	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-048WB23A	A3E1577-48	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-049SF23A	A3E1577-49	Drinking Water	05/16/23 00:00	05/17/23 12:02
21820100-050WB23A	A3E1577-50	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-051DW23A	A3E1577-51	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-052BF23A	A3E1577-52	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-053BF23A	A3E1577-53	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-054CF23A	A3E1577-54	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-055DW23A	A3E1577-55	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-056CF23A	A3E1577-56	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-057DW23A	A3E1577-57	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-058BF23A	A3E1577-58	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-059BF23A	A3E1577-59	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-060CF23A	A3E1577-60	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-061CF23A	A3E1577-61	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-062DW23A	A3E1577-62	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-063CF23A	A3E1577-63	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-064DW23A	A3E1577-64	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-065CF23A	A3E1577-65	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-066DW23A	A3E1577-66	Drinking Water	05/17/23 00:00	05/17/23 12:02

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Reynolds School District Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21820100-067DW23A	A3E1577-67	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-068DW23A	A3E1577-68	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-069SF23A	A3E1577-69	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-070BF23A	A3E1577-70	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-071WB23A	A3E1577-71	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-072DW23A	A3E1577-72	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-073DW23A	A3E1577-73	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-074BF23A	A3E1577-74	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-075BF23A	A3E1577-75	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-076CF23A	A3E1577-76	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-077DW23A	A3E1577-77	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-078CF23A	A3E1577-78	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-079DW23A	A3E1577-79	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-080CF23A	A3E1577-80	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-081DW23A	A3E1577-81	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-082CF23A	A3E1577-82	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-083DW23A	A3E1577-83	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-084CF23A	A3E1577-84	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-085DW23A	A3E1577-85	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-086CF23A	A3E1577-86	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-087DW23A	A3E1577-87	Drinking Water	05/17/23 00:00	05/17/23 12:02
21820100-088CF23A	A3E1577-88	Drinking Water	05/17/23 00:00	05/17/23 12:02

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PBS Engineering and Environmental 4412 S Corbett Ave Portland, OR 97239	Project: Reynolds School District Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
--	--	---

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
21820100-001KF23A (A3E1577-01)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	0.487	---	0.200	ug/L	1	05/26/23 17:06	EPA 200.8	
21820100-002KF23A (A3E1577-02)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	1.06	---	0.200	ug/L	1	05/26/23 17:08	EPA 200.8	
21820100-003KF23A (A3E1577-03)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	0.999	---	0.200	ug/L	1	05/26/23 17:09	EPA 200.8	
21820100-004KF23A (A3E1577-04)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	1.59	---	0.200	ug/L	1	05/26/23 17:11	EPA 200.8	
21820100-005BF23A (A3E1577-05)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 17:12	EPA 200.8	
21820100-006CF23A (A3E1577-06)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	1.60	---	0.200	ug/L	1	05/26/23 17:14	EPA 200.8	
21820100-007DW23A (A3E1577-07)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	0.790	---	0.200	ug/L	1	05/26/23 17:15	EPA 200.8	
21820100-008CF23A (A3E1577-08)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	3.01	---	0.200	ug/L	1	05/26/23 17:17	EPA 200.8	
21820100-010CF23A (A3E1577-10)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	5.22	---	0.200	ug/L	1	05/26/23 17:18	EPA 200.8	
21820100-011DW23A (A3E1577-11)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-011DW23A (A3E1577-11)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	1.25	---	0.200	ug/L	1	05/26/23 17:23	EPA 200.8	
21820100-012CF23A (A3E1577-12)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	4.36	---	0.200	ug/L	1	05/26/23 17:25	EPA 200.8	
21820100-013DW23A (A3E1577-13)				Matrix: Drinking Water				
<u>Batch: 23E1082</u>								
Lead	0.560	---	0.200	ug/L	1	05/26/23 17:26	EPA 200.8	
21820100-014SF23A (A3E1577-14)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	66.7	---	0.200	ug/L	1	05/26/23 14:33	EPA 200.8	
21820100-015CF23A (A3E1577-15)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	0.425	---	0.200	ug/L	1	05/26/23 14:41	EPA 200.8	
21820100-016CF23A (A3E1577-16)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	0.287	---	0.200	ug/L	1	05/26/23 14:42	EPA 200.8	
21820100-017DW23A (A3E1577-17)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 14:44	EPA 200.8	
21820100-018WB23A (A3E1577-18)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 14:45	EPA 200.8	
21820100-019BF23A (A3E1577-19)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	2.14	---	0.200	ug/L	1	05/26/23 14:47	EPA 200.8	
21820100-020BF23A (A3E1577-20)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-020BF23A (A3E1577-20)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	0.517	---	0.200	ug/L	1	05/26/23 14:49	EPA 200.8	
21820100-021CF23A (A3E1577-21)				Matrix: Drinking Water				
<u>Batch: 23E1174</u>								
Lead	110	---	0.222	ug/L	1	05/30/23 16:08	EPA 200.8	DW-D
21820100-022CF23A (A3E1577-22)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	1.69	---	0.200	ug/L	1	05/26/23 14:50	EPA 200.8	
21820100-023DW23A (A3E1577-23)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	0.703	---	0.200	ug/L	1	05/26/23 14:52	EPA 200.8	
21820100-024CF23A (A3E1577-24)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	3.62	---	0.200	ug/L	1	05/26/23 14:53	EPA 200.8	
21820100-025DW23A (A3E1577-25)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	0.947	---	0.200	ug/L	1	05/26/23 14:58	EPA 200.8	
21820100-026CF23A (A3E1577-26)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	5.18	---	0.200	ug/L	1	05/26/23 14:59	EPA 200.8	
21820100-027DW23A (A3E1577-27)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	1.68	---	0.200	ug/L	1	05/26/23 15:01	EPA 200.8	
21820100-028CF23A (A3E1577-28)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	3.53	---	0.200	ug/L	1	05/26/23 15:02	EPA 200.8	
21820100-030CF23A (A3E1577-30)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-030CF23A (A3E1577-30)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	4.44	---	0.200	ug/L	1	05/26/23 15:04	EPA 200.8	
21820100-031DW23A (A3E1577-31)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	2.21	---	0.200	ug/L	1	05/26/23 15:05	EPA 200.8	
21820100-032CF23A (A3E1577-32)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	13.2	---	0.200	ug/L	1	05/26/23 15:06	EPA 200.8	
21820100-033DW23A (A3E1577-33)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	1.79	---	0.200	ug/L	1	05/26/23 15:08	EPA 200.8	
21820100-034CF23A (A3E1577-34)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	4.08	---	0.200	ug/L	1	05/26/23 15:09	EPA 200.8	
21820100-035DW23A (A3E1577-35)				Matrix: Drinking Water				
<u>Batch: 23E1095</u>								
Lead	1.01	---	0.200	ug/L	1	05/26/23 15:11	EPA 200.8	
21820100-036DW23A (A3E1577-36)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 13:49	EPA 200.8	
21820100-037WB23A (A3E1577-37)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 13:53	EPA 200.8	
21820100-038BF23A (A3E1577-38)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	0.638	---	0.200	ug/L	1	05/26/23 13:55	EPA 200.8	
21820100-039SF23A (A3E1577-39)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-039SF23A (A3E1577-39)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	0.632	---	0.200	ug/L	1	05/26/23 13:56	EPA 200.8	
21820100-040BF23A (A3E1577-40)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	1.28	---	0.200	ug/L	1	05/26/23 13:58	EPA 200.8	
21820100-041CF23A (A3E1577-41)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	8.83	---	0.200	ug/L	1	05/26/23 13:59	EPA 200.8	
21820100-042DW23A (A3E1577-42)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	1.04	---	0.200	ug/L	1	05/26/23 14:04	EPA 200.8	
21820100-043CF23A (A3E1577-43)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	11.8	---	0.200	ug/L	1	05/26/23 14:05	EPA 200.8	
21820100-044DW23A (A3E1577-44)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	9.36	---	0.200	ug/L	1	05/26/23 14:07	EPA 200.8	
21820100-045NS23A (A3E1577-45)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	6.31	---	0.200	ug/L	1	05/26/23 14:08	EPA 200.8	
21820100-046SF23A (A3E1577-46)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	2.69	---	0.200	ug/L	1	05/26/23 14:10	EPA 200.8	
21820100-047SF23A (A3E1577-47)				Matrix: Drinking Water				
<u>Batch: 23E1174</u>								
Lead	193	---	0.222	ug/L	1	05/30/23 16:14	EPA 200.8	DW-D
21820100-048WB23A (A3E1577-48)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-048WB23A (A3E1577-48)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	0.215	---	0.200	ug/L	1	05/26/23 14:11	EPA 200.8	
21820100-049SF23A (A3E1577-49)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 14:13	EPA 200.8	
21820100-050WB23A (A3E1577-50)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 14:14	EPA 200.8	
21820100-051DW23A (A3E1577-51)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 14:16	EPA 200.8	
21820100-052BF23A (A3E1577-52)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	3.78	---	0.200	ug/L	1	05/26/23 14:17	EPA 200.8	
21820100-053BF23A (A3E1577-53)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	2.02	---	0.200	ug/L	1	05/26/23 14:22	EPA 200.8	
21820100-054CF23A (A3E1577-54)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	1.21	---	0.200	ug/L	1	05/26/23 14:23	EPA 200.8	
21820100-055DW23A (A3E1577-55)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	1.13	---	0.200	ug/L	1	05/26/23 14:24	EPA 200.8	
21820100-056CF23A (A3E1577-56)				Matrix: Drinking Water				
<u>Batch: 23E1102</u>								
Lead	1.58	---	0.200	ug/L	1	05/26/23 14:26	EPA 200.8	
21820100-057DW23A (A3E1577-57)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-057DW23A (A3E1577-57)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	2.91	---	0.200	ug/L	1	05/26/23 17:32	EPA 200.8	
21820100-058BF23A (A3E1577-58)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.89	---	0.200	ug/L	1	05/26/23 17:37	EPA 200.8	
21820100-059BF23A (A3E1577-59)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	0.776	---	0.200	ug/L	1	05/26/23 17:41	EPA 200.8	
21820100-060CF23A (A3E1577-60)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	0.479	---	0.200	ug/L	1	05/26/23 17:43	EPA 200.8	
21820100-061CF23A (A3E1577-61)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.87	---	0.200	ug/L	1	05/26/23 17:45	EPA 200.8	
21820100-062DW23A (A3E1577-62)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	0.663	---	0.200	ug/L	1	05/26/23 17:46	EPA 200.8	
21820100-063CF23A (A3E1577-63)				Matrix: Drinking Water				
<u>Batch: 23E1174</u>								
Lead	1.13	---	0.222	ug/L	1	05/30/23 16:20	EPA 200.8	DW-D
21820100-064DW23A (A3E1577-64)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	0.799	---	0.200	ug/L	1	05/26/23 17:48	EPA 200.8	
21820100-065CF23A (A3E1577-65)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.04	---	0.200	ug/L	1	05/26/23 17:49	EPA 200.8	
21820100-066DW23A (A3E1577-66)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-066DW23A (A3E1577-66)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	4.56	---	0.200	ug/L	1	05/26/23 17:51	EPA 200.8	
21820100-067DW23A (A3E1577-67)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.80	---	0.200	ug/L	1	05/26/23 17:52	EPA 200.8	
21820100-068DW23A (A3E1577-68)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.34	---	0.200	ug/L	1	05/26/23 17:54	EPA 200.8	
21820100-069SF23A (A3E1577-69)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	2.09	---	0.200	ug/L	1	05/26/23 17:55	EPA 200.8	
21820100-070BF23A (A3E1577-70)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	4.96	---	0.200	ug/L	1	05/26/23 18:00	EPA 200.8	
21820100-071WB23A (A3E1577-71)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 18:01	EPA 200.8	
21820100-072DW23A (A3E1577-72)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 18:03	EPA 200.8	
21820100-073DW23A (A3E1577-73)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	ND	---	0.200	ug/L	1	05/26/23 18:04	EPA 200.8	
21820100-074BF23A (A3E1577-74)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.27	---	0.200	ug/L	1	05/26/23 18:06	EPA 200.8	
21820100-075BF23A (A3E1577-75)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-075BF23A (A3E1577-75)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	0.577	---	0.200	ug/L	1	05/26/23 18:08	EPA 200.8	
21820100-076CF23A (A3E1577-76)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.22	---	0.200	ug/L	1	05/26/23 18:09	EPA 200.8	
21820100-077DW23A (A3E1577-77)				Matrix: Drinking Water				
<u>Batch: 23E1126</u>								
Lead	1.59	---	0.200	ug/L	1	05/26/23 18:11	EPA 200.8	
21820100-078CF23A (A3E1577-78)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	1.71	---	0.200	ug/L	1	05/31/23 16:56	EPA 200.8	
21820100-079DW23A (A3E1577-79)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	1.92	---	0.200	ug/L	1	05/31/23 16:57	EPA 200.8	
21820100-080CF23A (A3E1577-80)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	1.18	---	0.200	ug/L	1	05/31/23 16:59	EPA 200.8	
21820100-081DW23A (A3E1577-81RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	0.696	---	0.200	ug/L	1	06/01/23 18:28	EPA 200.8	
21820100-082CF23A (A3E1577-82RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	1.01	---	0.200	ug/L	1	06/01/23 18:29	EPA 200.8	
21820100-083DW23A (A3E1577-83RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	1.59	---	0.200	ug/L	1	06/01/23 18:30	EPA 200.8	
21820100-084CF23A (A3E1577-84RE1)				Matrix: Drinking Water				

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
21820100-084CF23A (A3E1577-84RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	4.40	---	0.200	ug/L	1	06/01/23 18:32	EPA 200.8	
21820100-085DW23A (A3E1577-85RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	3.43	---	0.200	ug/L	1	05/31/23 19:35	EPA 200.8	
21820100-086CF23A (A3E1577-86RE1)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	3.83	---	0.200	ug/L	1	05/31/23 19:36	EPA 200.8	
21820100-087DW23A (A3E1577-87)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	6.24	---	0.200	ug/L	1	05/31/23 17:12	EPA 200.8	
21820100-088CF23A (A3E1577-88)				Matrix: Drinking Water				
<u>Batch: 23E1138</u>								
Lead	30.8	---	0.200	ug/L	1	05/31/23 17:13	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 23E1082 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23E1082-BLK2)		Prepared: 05/25/23 11:47 Analyzed: 05/26/23 16:42										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23E1082-BS2)		Prepared: 05/25/23 11:47 Analyzed: 05/26/23 16:47										
<u>EPA 200.8</u>												
Lead	15.1	---	0.201	ug/L	1	15.0	---	100	85 - 115%	---	---	Q-16
Matrix Spike (23E1082-MS2)		Prepared: 05/25/23 11:47 Analyzed: 05/26/23 17:28										
<u>QC Source Sample: 21820100-013DW23A (A3E1577-13)</u>												
<u>EPA 200.8</u>												
Lead	15.3	---	0.201	ug/L	1	15.0	0.560	98	70 - 130%	---	---	
Batch 23E1095 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23E1095-BLK1)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 14:30										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23E1095-BS1)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 14:32										
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	
Duplicate (23E1095-DUP1)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 14:35										
<u>QC Source Sample: 21820100-014SF23A (A3E1577-14)</u>												
<u>EPA 200.8</u>												
Lead	66.6	---	0.200	ug/L	1	---	66.7	---	---	0.1	20%	
Matrix Spike (23E1095-MS1)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 14:39										
<u>QC Source Sample: 21820100-014SF23A (A3E1577-14)</u>												
<u>EPA 200.8</u>												
Lead	81.4	---	0.201	ug/L	1	15.0	66.7	98	70 - 130%	---	---	
Matrix Spike (23E1095-MS2)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 15:15										
<u>QC Source Sample: 21820100-035DW23A (A3E1577-35)</u>												

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---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1095 - EPA 200.8 Direct Analysis						Drinking Water						
Matrix Spike (23E1095-MS2)		Prepared: 05/25/23 12:37 Analyzed: 05/26/23 15:15										
<u>QC Source Sample: 21820100-035DW23A (A3E1577-35)</u>												
<u>EPA 200.8</u>												
Lead	15.8	---	0.201	ug/L	1	15.0	1.01	99	70 - 130%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 23E1102 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23E1102-BLK1)		Prepared: 05/25/23 14:58 Analyzed: 05/26/23 13:46										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23E1102-BS1)		Prepared: 05/25/23 14:58 Analyzed: 05/26/23 13:48										
<u>EPA 200.8</u>												
Lead	15.2	---	0.201	ug/L	1	15.0	---	102	85 - 115%	---	---	---
Duplicate (23E1102-DUP1)		Prepared: 05/25/23 14:58 Analyzed: 05/26/23 13:51										
<u>QC Source Sample: 21820100-036DW23A (A3E1577-36)</u>												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	---
Matrix Spike (23E1102-MS1)		Prepared: 05/25/23 14:58 Analyzed: 05/26/23 13:52										
<u>QC Source Sample: 21820100-036DW23A (A3E1577-36)</u>												
<u>EPA 200.8</u>												
Lead	14.9	---	0.201	ug/L	1	15.0	ND	99	70 - 130%	---	---	---
Matrix Spike (23E1102-MS2)		Prepared: 05/25/23 14:58 Analyzed: 05/26/23 14:27										
<u>QC Source Sample: 21820100-056CF23A (A3E1577-56)</u>												
<u>EPA 200.8</u>												
Lead	16.5	---	0.201	ug/L	1	15.0	1.58	100	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 23E1126 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23E1126-BLK1)		Prepared: 05/26/23 07:40 Analyzed: 05/26/23 17:29										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23E1126-BS1)		Prepared: 05/26/23 07:40 Analyzed: 05/26/23 17:31										
<u>EPA 200.8</u>												
Lead	15.1	---	0.201	ug/L	1	15.0	---	101	85 - 115%	---	---	---
Duplicate (23E1126-DUP1)		Prepared: 05/26/23 07:40 Analyzed: 05/26/23 17:34										
<u>QC Source Sample: 21820100-057DW23A (A3E1577-57)</u>												
<u>EPA 200.8</u>												
Lead	2.93	---	0.200	ug/L	1	---	2.91	---	---	0.6	20%	---
Matrix Spike (23E1126-MS1)		Prepared: 05/26/23 07:40 Analyzed: 05/26/23 17:35										
<u>QC Source Sample: 21820100-057DW23A (A3E1577-57)</u>												
<u>EPA 200.8</u>												
Lead	17.7	---	0.201	ug/L	1	15.0	2.91	99	70 - 130%	---	---	---
Matrix Spike (23E1126-MS2)		Prepared: 05/26/23 07:40 Analyzed: 05/26/23 18:12										
<u>QC Source Sample: 21820100-077DW23A (A3E1577-77)</u>												
<u>EPA 200.8</u>												
Lead	16.4	---	0.201	ug/L	1	15.0	1.59	99	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1138 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (23E1138-BLK1)		Prepared: 05/26/23 08:54 Analyzed: 05/31/23 16:34										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (23E1138-BS1)		Prepared: 05/26/23 08:54 Analyzed: 05/31/23 16:35										
<u>EPA 200.8</u>												
Lead	15.5	---	0.201	ug/L	1	15.0	---	104	85 - 115%	---	---	---
Matrix Spike (23E1138-MS2)		Prepared: 05/26/23 08:54 Analyzed: 05/31/23 17:14										
<u>QC Source Sample: 21820100-088CF23A (A3E1577-88)</u>												
<u>EPA 200.8</u>												
Lead	45.6	---	0.201	ug/L	1	15.0	30.8	99	70 - 130%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1174 - EPA 3015A						Drinking Water						
Blank (23E1174-BLK1)		Prepared: 05/30/23 06:41 Analyzed: 05/30/23 15:32										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (23E1174-BS1)		Prepared: 05/30/23 06:41 Analyzed: 05/30/23 15:38										
<u>EPA 200.8</u>												
Lead	16.4	---	0.222	ug/L	1	16.7	---	98	85 - 115%	---	---	---

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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23E1082</u>							
A3E1577-01	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-02	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-03	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-04	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-05	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-06	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-07	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-08	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-10	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-11	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-12	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
A3E1577-13	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 11:47	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23E1095</u>							
A3E1577-14	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-15	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-16	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-17	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-18	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-19	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-20	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-22	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-23	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-24	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-25	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-26	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-27	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-28	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-30	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-31	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-32	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-33	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-34	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
A3E1577-35	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 12:37	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23E1102</u>							
A3E1577-36	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Reynolds School District</u> Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3E1577-37	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-38	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-39	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-40	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-41	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-42	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-43	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-44	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-45	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-46	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-48	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-49	Drinking Water	EPA 200.8	05/16/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-50	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-51	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-52	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-53	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-54	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-55	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
A3E1577-56	Drinking Water	EPA 200.8	05/17/23 00:00	05/25/23 14:58	10mL/10mL	10mL/10mL	1.00
<u>Batch: 23E1126</u>							
A3E1577-57	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-58	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-59	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-60	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-61	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-62	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-64	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-65	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-66	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-67	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-68	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-69	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-70	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-71	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-72	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-73	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-74	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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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: Reynolds School District Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 200.8 Direct Analysis

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3E1577-75	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-76	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
A3E1577-77	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 07:40	10mL/10mL	10mL/10mL	1.00
Batch: 23E1138							
A3E1577-78	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-79	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-80	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-81RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-82RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-83RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-84RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-85RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-86RE1	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-87	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00
A3E1577-88	Drinking Water	EPA 200.8	05/17/23 00:00	05/26/23 08:54	10mL/10mL	10mL/10mL	1.00

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E1174							
A3E1577-21	Drinking Water	EPA 200.8	05/16/23 00:00	05/30/23 06:41	45mL/50mL	10mL/10mL	1.11
A3E1577-47	Drinking Water	EPA 200.8	05/16/23 00:00	05/30/23 06:41	45mL/50mL	10mL/10mL	1.11
A3E1577-63	Drinking Water	EPA 200.8	05/17/23 00:00	05/30/23 06:41	45mL/50mL	10mL/10mL	1.11

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Jason Woodcock, Project Manager

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- DW-D Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.
- Q-16 Reanalysis of an original Batch QC sample.

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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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Jason Woodcock, Project Manager



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<u>PBS Engineering and Environmental</u> 4412 S Corbett Ave Portland, OR 97239	Project: <u>Reynolds School District</u> Project Number: Alder Elementary/23514.18 Project Manager: James Mastanduno	Report ID: A3E1577 - 06 05 23 1243
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

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

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Table with 3 columns: Client (PBS Engineering and Environmental), Project (Reynolds School District), and Report ID (A3E1577 - 06 05 23 1243).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation. Includes a note: All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Jason Woodcock

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Jason Woodcock, Project Manager

ANALYTICAL REPORT

PBS Engineering and Environmental	Project: Reynolds School District	
4412 S Corbett Ave	Project Number: Alder Elementary/23514.18	Report ID:
Portland, OR 97239	Project Manager: James Mastanduno	A3E1577 - 06 05 23 1243

A3E1577

Lead in Drinking Water Testing Program		Reynolds School District	
Date Collected:	5-16-23	PBS Project:	23514.186
School Name:	Alder Elementary	Building Number:	21820100
Analysis Requested:	Lead (Pb) in drinking water		
Relinquished By:	Jose Herrera	Date/Time:	5/17/23 - 0900
Received By:	Ashley Marjessa	Date/Time:	5/17/23 - 1202
Email Results to:	jamés.mastanduno@pbsusa.com	Turnaround Time:	10 - Day

Fixture Number	Sample Number	Room/Location
001 KF	21820100-001KF23A	Kitchen, island, north sink, east
002 KF	21820100-002KF23A	Kitchen, island, north sink, west
003 KF	21820100-003KF23A	Kitchen island, south sink
004 KF	21820100-004KF23A	Kitchen, west wall, sink
005 BF	21820100-005BF23A	Gym building, second floor, boys restroom
006 CF	21820100-006CF23A	Rm 9, classroom sink
007 DW	21820100-007DW23A	Rm 9, classroom fountain @ sink
008 CF	21820100-008CF23A	Rm 10, classroom sink
009 DW	Did not sample	Rm 10, classroom fountain @ sink - Does NOT WORK
010 CF	21820100-010CF23A	Rm 11, classroom sink
011 DW	21820100-011DW23A	Rm 11, classroom fountain @ sink
012 CF	21820100-012CF23A	Rm 12, classroom sink
013 DW	21820100-013DW23A	Rm 12, classroom fountain @ sink
014 BF	21820100-014BF23A	Gym building, second floor, custodial office @ top of stairs
015 CF	21820100-015CF23A	Rm 12, classroom sink, west
016 CF	21820100-016CF23A	Rm 12, classroom sink, east
017 DW	21820100-017DW23A	NW Hallway, west hall, drinking fountain
018 WB	21820100-018WB23A	NW Hallway, west hall, water fill station @ fountain
019 BF	21820100-019BF23A	NW Hallway, west hall, boys RR sink
020 BF	21820100-020BF23A	NW Hallway, west hall, girls RR sink
021 CF	21820100-021CF23A	Rm 7, kids exercise room (NW doorway) sink
022 CF	21820100-022CF23A	Rm 13, classroom sink
023 DW	21820100-023DW23A	Rm 13, classroom fountain @ sink
024 CF	21820100-024CF23A	Rm 14, classroom sink
025 DW	21820100-025DW23A	Rm 14, classroom fountain @ sink
026 CF	21820100-026CF23A	Rm 6, classroom sink
027 DW	21820100-027DW23A	Rm 6, classroom fountain @ sink
028 CF	21820100-028CF23A	Rm 5, classroom sink
029 DW	Did not sample	Rm 5, classroom fountain @ sink - Does not work
030 CF	21820100-030CF23A	Rm 15, classroom sink
031 DW	21820100-031DW23A	Rm 15, classroom fountain @ sink
032 CF	21820100-032CF23A	Rm 4, classroom sink
033 DW	21820100-033DW23A	Rm 4, classroom fountain @ sink
034 CF	21820100-034CF23A	Rm 3, classroom sink
035 DW	21820100-035DW23A	Rm 3, classroom fountain @ sink
036 DW	21820100-036DW23A	North hallway, east side, drinking fountain
037 WB	21820100-037WB23A	North hallway, east side, water fill @ drinking fountain
038 BF	21820100-038BF23A	North hallway, east side, girls restroom



ANALYTICAL REPORT

PBS Engineering and Environmental	Project: Reynolds School District	
4412 S Corbett Ave	Project Number: Alder Elementary/23514.18	Report ID:
Portland, OR 97239	Project Manager: James Mastanduno	A3E1577

A3E1577

Lead in Drinking Water Testing Program		Reynolds School District	
Date Collected:	5-16-23	PBS Project:	23514.186
School Name:	Alder Elementary	Building Number:	21820100
Analysis Requested:	Lead (Pb) in drinking water		
Relinquished By:	Jose Herrera	Date/Time:	5/17/23 - 0900
Received By:	Andy Mariposa	Date/Time:	5/17/23 - 1202
Email Results to:	james.mastanduno@pbsusa.com	Turnaround Time:	10 - Day

Fixture Number	Sample Number	Room/Location
039 SF	21820100-039SF23A	North hallway, east side, Faculty RR @ girls RR
040 BF	21820100-040BF23A	North hallway, east side, boys RR
041 CF	21820100-041CF23A	Classroom 7, sink
042 DW	21820100-042DW23A	Classroom 7 fountain @ sink
043 CF	21820100-043CF23A	Classroom 1 sink
044 DW	21820100-044DW23A	Classroom 1 fountain @ sink
045 NS	21820100-045NS23A	Nurse office sink
046 SF	21820100-046SF23A	Faculty RR adjacent to nurse office
047 SF	21820100-047SF23A	Faculty work room sink
048 WB	21820100-048WB23A	Teacher lounge - sink water bottle filler
049 SF	21820100-049SF23A	Teacher lounge - sink
050 WB	21820100-050WB23A	Entry hall, south @ south hall, fountain bottle filler
051 DW	21820100-051DW23A	Entry hall, south @ south hall, fountain
052 BF	21820100-052BF23A	South hall, girls restroom
053 BF	21820100-053BF23A	South hall, boys restroom
054 CF	21820100-054CF23A	Rm 16, classroom sink
055 DW	21820100-055DW23A	Rm 16, fountain @ classroom sink
056 CF	21820100-056CF23A	Rm 19 sink
057 DW	21820100-057DW23A	Rm 19 fountain @ sink
058 BF	21820100-058BF23A	Sun Room, restroom sink, east RR
059 BF	21820100-059BF23A	Sun Room, restroom sink, west RR
060 CF	21820100-060CF23A	Sun Room, classroom faucet
061 CF	21820100-061CF23A	Rm 21, classroom sink
062 DW	21820100-062DW23A	Rm 21, fountain @ classroom sink
063 CF	21820100-063CF23A	Rm 22, classroom sink
064 DW	21820100-064DW23A	Rm 22, fountain @ classroom sink
065 CF	21820100-065CF23A	Rm 23, classroom sink
066 DW	21820100-066DW23A	Rm 23, fountain @ classroom sink
067 CF	21820100-067CF23A	Rm 24, classroom sink
068 DW	21820100-068DW23A	Rm 24, fountain @ classroom sink
069 SF	21820100-069SF23A	South hallway, west side, Faculty RR @ girls RR
070 BF	21820100-070BF23A	South hallway, west side, girls RR sink
071 WB	21820100-071WB23A	South hallway, west side, water bottle station @ RR
072 DW (R)	21820100-072DW23A	South hallway, west side, drinking fountain, right
073 DW (L)	21820100-073DW23A	South hallway, west side, drinking fountain, left
074 BF (L)	21820100-074BF23A	South hallway, west side, boys RR sink, left
075 BF (R)	21820100-075BF23A	South hallway, west side, boys RR sink, right
076 CF	21820100-076CF23A	Rm 25, classroom sink





ANALYTICAL REPORT

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Project Manager: James Mastanduno
Report ID: A3E1577 - 06 05 23 1243

APEX LABS COOLER RECEIPT FORM

Client: PBS Element WO#: A3 E1577

Project/Project #: Alder Elementary / 23514.186

Delivery Info:

Date/time received: 5/17/23@1202 By: AJM
Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 5/17/23@1313 By: AJM

Chain of Custody included? Yes No
Signed/dated by client? Yes No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (21.4), Custody seals (N), Received on ice (N), Temp. blanks (N), Ice type (None), Condition (Out).

Cooler out of temp? Possible reason why: Drinking Water
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 5-20-23 @ 924 By: DJS

All samples intact? Yes No Comments:

Bottle labels/COCs agree? Yes No Comments: Containers IDs have prefix 2020100 and suffix of 23A

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: DJS Witness: EST Cooler Inspected by: DJS

Form Y-003 R-00

Handwritten signature of Jason Woodcock