



AWS 1815
April 23, 2018

Mr. John Daley
San Bruno Park School District
500 Acacia Blvd.
San Bruno, CA 94066

**RE: Portola Elementary School
Additional Water Sampling**

Dear Mr. Daley,

Pursuant to your direction, Air & Water SCIENCES (AWS) collected water samples from a new drinking water fountain recently installed in the common area adjacent to Room 35 at the Portola Elementary School (PES) located at 300 Amador Drive in San Bruno, CA. This fixture was installed to replace previous drinking fountains which had been sampled by AWS and found to contain elevated levels of lead. Sampling results from April 11, 2018 indicate lead was not detected in the water samples collected from this new drinking water fountain. AWS has summarized the background, sampling procedures and results below.

Background

AWS collected drinking water samples throughout PES in January 2017. The sampling identified three (3) fixtures that had lead levels exceeding the US Environmental Protection Agency's action level for lead in public water supply systems of 15 µg/L. These fixtures were all replaced by the San Bruno Park School District (SBPSD) and the new fixtures were subsequently sampled for lead. Two (2) of the new fixtures, both located in sinks in the common area near Rooms 34 and 35, continued to have elevated levels of lead even after multiple attempts to flush the lines. Therefore, SBPSD took both of these fixtures out of service. SBPSD recently removed and replaced the plumbing lines proximate to one of the fixtures (adjacent to Room 35) and again replaced the drinking water fountain. The drinking water sampling conducted at PES was documented in an AWS report, "Lead in Drinking Water Report" for PES dated October 2017.



Sampling Procedures and Results

AWS collected samples from the new drinking water fountain on April 11, 2018. This drinking water fountain is located in the sink in the common area adjacent to Room 35 and shown on the attached figure as 12-DWS. AWS collected both an initial draw and a 30-second flush sample. Samples were collected in a 250 milliliters (ml) laboratory provided container.

Samples were each given a unique sampling identification number. The sample location, date, time of collection and the type of outlet were recorded, and are shown on the attached chain-of-custody (COC), preceded by the attached laboratory report. Samples were delivered by courier to Alpha Analytical Laboratories in Ukiah, California under standard chain-of-custody procedures. This laboratory is certified by the State of California as part of the Environmental Laboratory Accreditation Program (ELAP# 1551). Water samples were analyzed for lead by EPA Method 200.8 which is the determination of trace elements in waters and wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS). The reporting limit as determined by the laboratory is 4 µg/L.

Sample results for both the initial draw and 30-second flush samples are non-detect (ND) for lead.

AWS appreciates the opportunity to perform these services for you. Please let us know if you have questions regarding the information above or if we can be of further assistance, we can be reached at (707) 769-2289.

Respectfully submitted,

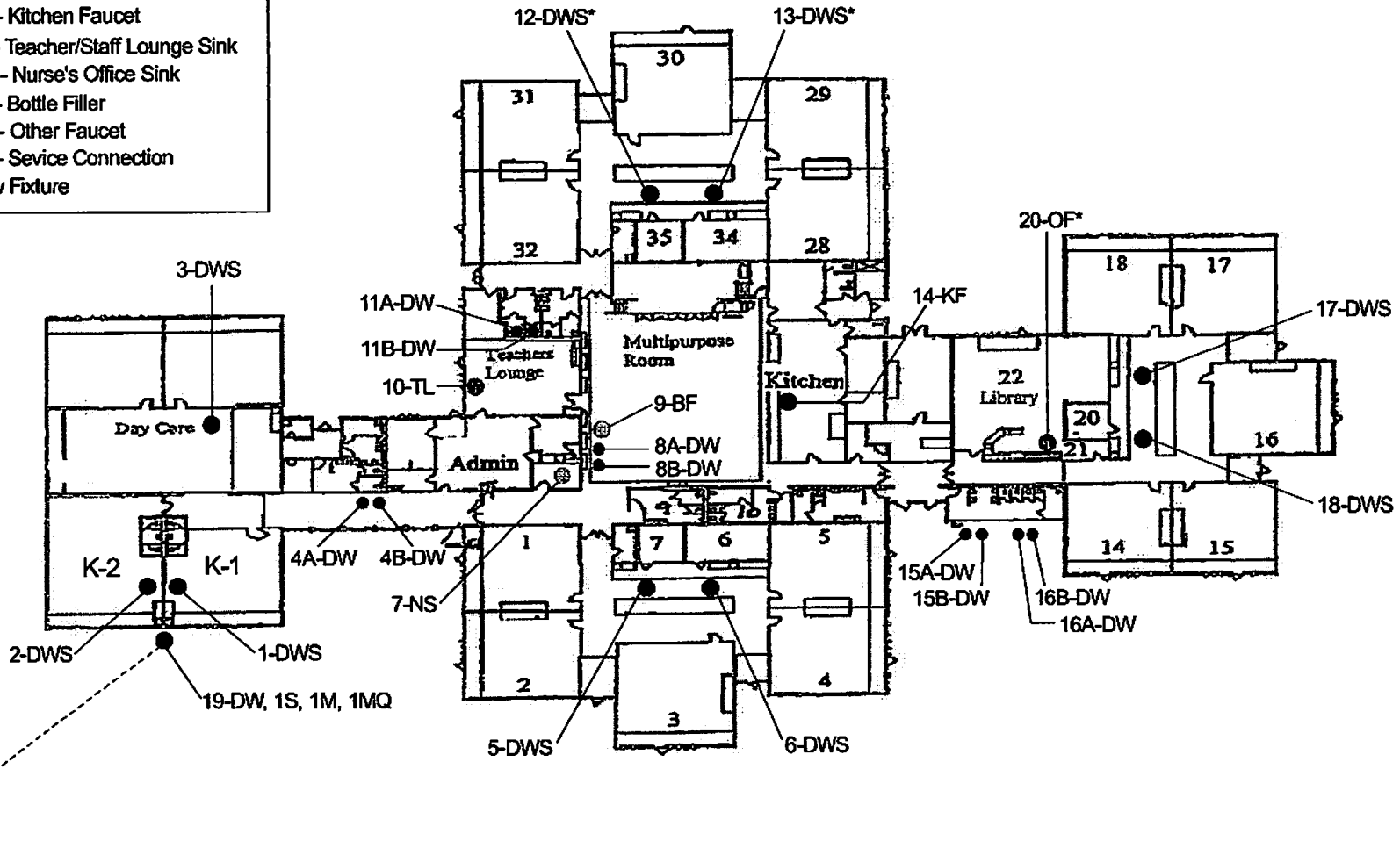


Chip Prokop, PE
DWTO T-1 #33506, WDO D-1 #42258



LEGEND

- DW - Drinking Water Fountain
- DWS - Drinking Fountain in Sink
- KF - Kitchen Faucet
- ⊕ TL - Teacher/Staff Lounge Sink
- ⊕ NS - Nurse's Office Sink
- ⊕ BF - Bottle Filler
- ⊕ OF - Other Faucet
- ⊕ SC - Service Connection
- * New Fixture



PORTOLA ELEMENTARY SCHOOL
 300 Amador Drive
 San Bruno, CA 94066

BASEMAP: SAN BRUNO PARK SCHOOL DISTRICT

FIGURE 1
 LEAD IN WATER
 SAMPLE LOCATION MAP
 PROJECT NO 1815



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

17 April 2018

Air & Water Sciences

Attn: Aniko Molnar

625 2nd Street, Suite 210

Petaluma, CA 94952

RE: Lead Monitoring Project

Work Order: 18D1222

Enclosed are the results of analyses for samples received by the laboratory on 04/11/18 14:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Air & Water Sciences
625 2nd Street, Suite 210
Petaluma, CA 94952

Project Manager: Aniko Molnar
Project: Lead Monitoring Project
Project Number: SBPSD: Portola ES

Reported:
04/17/18 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PES-12-DWS-P-NF2	18D1222-01	Water	04/11/18 07:30	04/11/18 14:42
PES-12-DWS-F-NF2	18D1222-02	Water	04/11/18 07:31	04/11/18 14:42

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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Air & Water Sciences
625 2nd Street, Suite 210
Petaluma, CA 94952

Project Manager: Aniko Molnar
Project: Lead Monitoring Project
Project Number: SBPSD: Portola ES

Reported:
04/17/18 14:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
PES-12-DWS-P-NF2 (18D1222-01)								
Metals by EPA Method 200.8 ICP/MS								P-02
Lead	ND ug/L	5.0	1	AD83542	04/16/18 10:00	04/16/18 12:32	EPA 200.8	
PES-12-DWS-F-NF2 (18D1222-02)								
Metals by EPA Method 200.8 ICP/MS								P-02
Lead	ND ug/L	5.0	1	AD83542	04/16/18 10:00	04/16/18 12:41	EPA 200.8	

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.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Air & Water Sciences
625 2nd Street, Suite 210
Petaluma, CA 94952

Project Manager: Aniko Molnar
Project: Lead Monitoring Project
Project Number: SBPSD: Portola ES

Reported:
04/17/18 14:22

Metals by EPA Method 200.8 ICP/MS - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD83542 - EPA 200 Series										
Blank (AD83542-BLK1)				Prepared & Analyzed: 04/16/18						
Lead	ND	5.0	ug/L							
LCS (AD83542-BS1)				Prepared & Analyzed: 04/16/18						
Lead	20.7	5.0	ug/L	20.0		103	85-115			
Duplicate (AD83542-DUP1)				Source: 18D0955-01			Prepared & Analyzed: 04/16/18			
Lead	ND	5.0	ug/L		ND				20	
Matrix Spike (AD83542-MS1)				Source: 18D0955-01			Prepared & Analyzed: 04/16/18			
Lead	100	5.0	ug/L	100	ND	100	70-130			
Matrix Spike (AD83542-MS2)				Source: 18D0955-14			Prepared & Analyzed: 04/16/18			
Lead	101	5.0	ug/L	100	ND	101	70-130			
Matrix Spike Dup (AD83542-MSD1)				Source: 18D0955-01			Prepared & Analyzed: 04/16/18			
Lead	99.6	5.0	ug/L	100	ND	99.6	70-130	0.658	20	

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.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Air & Water Sciences
625 2nd Street, Suite 210
Petaluma, CA 94952

Project Manager: Aniko Molnar
Project: Lead Monitoring Project
Project Number: SBPSD: Portola ES

Reported:
04/17/18 14:22

Notes and Definitions

- P-02 Sample acidified to pH <2 and allowed to sit 24 hours before further processing.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference



Corporate Laboratory
208 Mason Street, Ukiah CA 95482
707-468-0401 F) 707-468-5287
email: clientservices@alpha-labs.com

ELAP Certifications
Utah 1551 / Dublin 2728 / Elk Grove 2822

Bay Area Laboratory
8388 Dougherty Rd #35, Dublin CA 94588
925-828-6226 F) 925-828-6309

Central Valley Laboratory
9090 Union Park Way #113, Elk Grove CA 95624
916-886-5190 F) 916-886-5192

Chain of Custody - Work Order

Reports and invoices delivered by email in PDF format

Please also email EDF report

Lab No 18D1222 Pg _____ of _____

Report to			Signature below authorizes work under terms stated on reverse side.																																																																																																																																																																									
Company: Air and Water Sciences Attn: Heidi Bauer, Aniko Molnar, Chip Prokop and Becky Shellink Address: 625 2nd Street, ste 210 Petaluma, CA 94952 Phone: 707-769-2289 Email Addresses for Reports: heidi@awsciencences.com, amolnar@awsciencences.com, cprokop@awsciencences.com, becky@awsciencences.com			Contact: Aniko Molnar/Heidi Bauer lesley@awsciencences.com Attn: Lesley Hunter Ph: 707-769-2289 PROJECT NAME: SBPAD : Portola ES		Phone: 707-769-2289 Project ID: SBPAD Project No: A45-1816		<table border="1"> <thead> <tr> <th rowspan="2">Analysis Request</th> <th rowspan="2">TAT</th> <th rowspan="2">Temp upon Receipt</th> </tr> <tr> <th>Ukiah temp:</th> <th>Dublin temp:</th> </tr> </thead> <tbody> <tr> <td></td> <td>Standard </td> <td>2.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"> RUSH: 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <u>5 days Lab pre-approval required</u> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3"> Field Sampler - Printed Name & Signature: <u>Todd Williams Todd Williams</u> </td> <td colspan="2"> Container 250 ml poly </td> <td colspan="2"> Preservative NONE </td> <td colspan="2"> Matrix Water </td> <td colspan="11"> Total Number of Containers per Sample ID Lead (EPA 200.8) </td> </tr> <tr> <th colspan="2">Sample Identification</th> <th colspan="2">Sampling</th> <th rowspan="2">250 ml poly</th> <th rowspan="2">NONE</th> <th rowspan="2">Water</th> <th rowspan="2">Total Number of Containers per Sample ID</th> <th rowspan="2">Lead (EPA 200.8)</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> <th></th> <th></th> </tr> <tr> <td>PES-12-DWS-P-NF2</td> <td>4/11/18</td> <td>7:30</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PES-12-DWS-F-NF2</td> <td>4/11/18</td> <td>7:31</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											Analysis Request	TAT	Temp upon Receipt	Ukiah temp:	Dublin temp:		Standard 	2.4																						RUSH: 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <u>5 days Lab pre-approval required</u>																									Field Sampler - Printed Name & Signature: <u>Todd Williams Todd Williams</u>			Container 250 ml poly		Preservative NONE		Matrix Water		Total Number of Containers per Sample ID Lead (EPA 200.8)											Sample Identification		Sampling		250 ml poly	NONE	Water	Total Number of Containers per Sample ID	Lead (EPA 200.8)																	Date	Time			PES-12-DWS-P-NF2	4/11/18	7:30	X	X	X	1	X																			PES-12-DWS-F-NF2	4/11/18	7:31	X	X	X	1	X																		
Analysis Request	TAT	Temp upon Receipt																																																																																																																																																																										
			Ukiah temp:	Dublin temp:																																																																																																																																																																								
	Standard 	2.4																																																																																																																																																																										
RUSH: 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <u>5 days Lab pre-approval required</u>																																																																																																																																																																												
Field Sampler - Printed Name & Signature: <u>Todd Williams Todd Williams</u>			Container 250 ml poly		Preservative NONE		Matrix Water		Total Number of Containers per Sample ID Lead (EPA 200.8)																																																																																																																																																																			
Sample Identification		Sampling		250 ml poly	NONE	Water	Total Number of Containers per Sample ID	Lead (EPA 200.8)																																																																																																																																																																				
Date	Time																																																																																																																																																																											
PES-12-DWS-P-NF2	4/11/18	7:30	X	X	X	1	X																																																																																																																																																																					
PES-12-DWS-F-NF2	4/11/18	7:31	X	X	X	1	X																																																																																																																																																																					
Relinquished by <u>Todd Williams</u> <u>David Roma</u>			Received by <u>David Roma</u> <u>Alison</u>		Date 4/11/18 4.11.18		Time 11:32 1442		DDW Write On EDT Transmission? <input type="radio"/> Yes State System Number: _____ If "Y" please enter the Source Number(s) in the column above Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																																																																																																																																																																			