

November 27, 2017

Steven Lee Alameda Unified School District MOF 2060 Challenger Drive Alameda, CA 94501 transmitted via email to stlee@alameda.k12.ca.us

Re: Drinking Water Lead Sampling Results

Alameda Unified School District (AUSD) – Paden Elementary School Drinking Fountains 444 Central Ave, Alameda, CA

ACC Project No. 3007-119.00

Dear Mr. Lee:

Enclosed please find the laboratory test results for the drinking water sampling performed at the above-referenced site on November 5, 2017. The sampling was performed to determine lead concentrations in drinking water at drinking fountain locations throughout the school.

The intent of the testing was to collect drinking water samples to determine if lead concentrations at drinking water locations exceed the EPA and California Lead Action Levels. The EPA and State of California Lead Action Levels for lead in drinking water are concentrations exceeding 15 parts per billion (ppb). ACC collected drinking water samples from twenty-three (23) locations at the school. At each location, ACC collected water samples as "first-draw" and "post-flush" samples. First-draw samples were collected after non-use for a minimum of eight (8) continuous hours. Post-flush samples were collected after running the tap for at least thirty (30) seconds. The samples were collected in 125 milliliter bottles preserved with nitric acid and were submitted under standard chain of custody protocols to Forensic Analytical of Hayward, California, an American Industrial Hygiene Association (AIHA) accredited laboratory, for analysis. Samples were analyzed for lead in accordance with the EPA SM3113B Test Method.

ACC collected a total of 46 drinking water samples at 23 drinking fountain locations for analysis. Copies of the laboratory results are attached.

Drinking Water Sample Results

The water samples were obtained from drinking fountain locations as listed herein. The sample numbers, locations, type of draw and lead concentrations are listed below. ACC collected drinking water samples from the main drinking water sources. Not all water sources were sampled.

Sample Number	Location	Type of Draw	Lead Concentration in Parts Per Billion (PPB)
WS-192-FD	N. II. J.E. J. CIJ. II. Oct. El	First Draw	<5
WS-192-PF	Northeast End of Hallway 2 nd Floor	Post-Flush	<5
WS-193-FD	D 20	First Draw	<5
WS-193-PF	- Room 20	Post-Flush	<5
WS-194-FD	D04	First Draw	<5
WS-194-PF	- Room 24	Post-Flush	<5
WS-195-FD	D04	First Draw	<5
WS-195-PF	- Room 21	Post-Flush	<5
WS-196-FD	D02	First Draw	<5
WS-196-PF	- Room 23	Post-Flush	<5
WS-197-FD	D00	First Draw	<5
WS-197-PF	- Room 22	Post-Flush	<5
WS-198-FD	Downstairs Hallway Adjacent to Conference	First Draw	<5
WS-198-PF	Room Entrance	Post-Flush	<5
WS-199-FD	- Room 1	First Draw	<5
WS-199-PF	- Room I	Post-Flush	<5
WS-200-FD	Room 2	First Draw	<5
WS-200-PF	- ROOM 2	Post-Flush	<5
WS-201-FD	Danie 2	First Draw	<5
WS-201-PF	Room 3	Post-Flush	<5
WS-202-FD	Room 10	First Draw	<5
WS-202-PF	- Room 10	Post-Flush	<5
WS-203-FD	Doors 4	First Draw	<5
WS-203-PF	Room 4	Post-Flush	<5
WS-204-FD	Page 0	First Draw	<5
WS-204-PF	Room 9	Post-Flush	<5
WS-205-FD	Doom 5	First Draw	<5
WS-205-PF	Room 5	Post-Flush	<5
WS-206-FD	Doom 0	First Draw	<5
WS-206-PF	- Room 8	Post-Flush	<5

Sample Number	Location	Type of Draw	Lead Concentration in Parts Per Billion (PPB)
WS-207-FD	1st Floor Foot End of Hallway Adjacent to Doom 6	First Draw	8
WS-207-PF	1st Floor East End of Hallway Adjacent to Room 6	Post-Flush	<5
WS-208-FD	- Room 6	First Draw	<5
WS-208-PF	ROOM 6	Post-Flush	<5
WS-209-FD	- Room 7	First Draw	6
WS-209-PF	ROOM 7	Post-Flush	<5
WS-210-FD	- Room B	First Draw	<5
WS-210-PF	ROOM B	Post-Flush	<5
WS-211-FD	- Room A	First Draw	11
WS-211-PF	ROOM A	Post-Flush	<5
WS-212-FD	- Room D	First Draw	<5
WS-212-PF	ROOM D	Post-Flush	<5
WS-213-FD	- Room C	First Draw	<5
WS-213-PF	Nooiii 0	Post-Flush	<5
WS-214-FD	Outside Fountain Exterior South Wall of Multi-	First Draw	<5
WS-214-PF	Purpose Room between Boys/Girls Restroom Entrances	Post-Flush	<5

All first-draw and post-flush water sample concentrations were below the EPA and California Lead Action Level of 15 PPB. When the first-draw and post-flush samples are both elevated this may indicate leaching of lead from the fixture and distribution water lines in the building. When the pre-flush only is elevated, this usually indicates localized corrosion issues within the faucet, fittings and/or connections.

The EPA and California Lead Action Levels are used to protect the public from metals that can adversely affect their health. These laws require water systems to monitor lead levels at the consumers' taps. If Action Levels for lead (15 ppb) are exceeded, installation or modifications to corrosion control treatment is required. In addition, if the action level for lead is exceeded, public notification is required.

Recommendations

Based on the results of the drinking water investigation, ACC makes the following recommendations:

• ACC recommends performing periodic water sampling to ensure lead in drinking water concentrations remain below the action level.

Limitations

ACC shall not be responsible for claims that may arise out of failure to correct problems or to identify problems that may exist at this location. ACC assumes no responsibility for damages for work performed or errors in documentation or missing information. ACC does not guarantee the accuracy of information provided by other

AUSD Paden Elementary School Drinking Fountains Water Sampling 444 Central Ave, Alameda, CA November 27, 2017 Page 4

parties. All statements and/or recommendations are based on conditions observed and tested at the time of the inspection. The scope of the investigation for this report was to collect representative drinking water samples from several locations at the school. ACC has not investigated and does not possess any opinion regarding other drinking water locations within the building. This report does not intend to identify all hazards or unsafe conditions, or to indicate that other hazards or unsafe conditions do not exist at the subject site.

Please contact me at (510) 638-8400 ext. 109 if you have any questions.

Sincerely,

ACC ENVIRONMENTAL CONSULTANTS, INC.

Ben Schulte-Bisping Project Manager

B. Solulti bisping

California Department of Public Health Lead I/A/M #24564

Mark A. Sanchez, CHMM

President

California Department of Public Health Lead I/A/M/S #5150

Attachments: Forensic Analytical Metals Analysis of Drinking Water Report #M191468, dated 11/16/17.



Metals Analysis of Drinking Water

ACC Environmental Consultants

Ben Schulte Bisping

7977 Capwell Dr., Suite 100

Oakland, CA 94621

Job ID / Site: 3007-119.00, AUSD Water Sampling, Paden Elementary, 444 Central Ave.,

Alameda, CA 94501

Date(s) Collected: 11/5/17

Client ID: 1117
Report Number: M191468

Date Received: 11/09/17 **Date Analyzed:** 11/14/17

Date Printed: 11/16/17 **First Reported:** 11/16/17

FALI Job ID: 1117-1506

Total Samples Submitted: 46 **Total Samples Analyzed:** 46

					Total S	amples Analyzed: 46
Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-192-FD	30784132	Pb	< 5	ppb	5	SM 3113B
WS-192-PF	30784133	Pb	< 5	ppb	5	SM 3113B
WS-193-FD	30784134	Pb	< 5	ppb	5	SM 3113B
WS-193-PF	30784135	Pb	< 5	ppb	5	SM 3113B
WS-194-FD	30784136	Pb	< 5	ppb	5	SM 3113B
WS-194-PF	30784137	Pb	< 5	ppb	5	SM 3113B
WS-195-FD	30784138	Pb	< 5	ppb	5	SM 3113B
WS-195-PF	30784139	Pb	< 5	ppb	5	SM 3113B
WS-196-FD	30784140	Pb	< 5	ppb	5	SM 3113B
WS-196-PF	30784141	Pb	< 5	ppb	5	SM 3113B
WS-197-FD	30784142	Pb	< 5	ppb	5	SM 3113B
WS-197-PF	30784143	Pb	< 5	ppb	5	SM 3113B
WS-198-FD	30784144	Pb	< 5	ppb	5	SM 3113B
WS-198-PF	30784145	Pb	< 5	ppb	5	SM 3113B
WS-199-FD	30784146	Pb	< 5	ppb	5	SM 3113B
WS-199-PF	30784147	Pb	< 5	ppb	5	SM 3113B
WS-200-FD	30784148	Pb	< 5	ppb	5	SM 3113B
WS-200-PF	30784149	Pb	< 5	ppb	5	SM 3113B
WS-201-FD	30784150	Pb	< 5	ppb	5	SM 3113B
WS-201-PF	30784151	Pb	< 5	ppb	5	SM 3113B
WS-202-FD	30784152	Pb	< 5	ppb	5	SM 3113B
WS-202-PF	30784153	Pb	< 5	ppb	5	SM 3113B
WS-203-FD	30784154	Pb	< 5	ppb	5	SM 3113B
WS-203-PF	30784155	Pb	< 5	ppb	5	SM 3113B
WS-204-FD	30784156	Pb	< 5	ppb	5	SM 3113B
WS-204-PF	30784157	Pb	< 5	ppb	5	SM 3113B



Metals Analysis of Drinking Water

ACC Environmental Consultants

Ben Schulte Bisping

7977 Capwell Dr., Suite 100

Oakland, CA 94621

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Alameda, CA 94501

Date(s) Collected: 11/5/17

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Client ID:

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FALI Job ID: 1117-1506

Total Samples Submitted: 46

Total Samples Analyzed: 46

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M191468

11/09/17

11/14/17

					2 00002 80	imples Analyzeu. +0
Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-205-FD	30784158	Pb	< 5	ppb	5	SM 3113B
WS-205-PF	30784159	Pb	< 5	ppb	5	SM 3113B
WS-206-FD	30784160	Pb	< 5	ppb	5	SM 3113B
WS-206-PF	30784161	Pb	< 5	ppb	5	SM 3113B
WS-207-FD	30784162	Pb	8	ppb	5	SM 3113B
WS-207-PF	30784163	Pb	< 5	ppb	5	SM 3113B
WS-208-FD	30784164	Pb	< 5	ppb	5	SM 3113B
WS-208-PF	30784165	Pb	< 5	ppb	5	SM 3113B
WS-209-FD	30784166	Pb	6	ppb	5	SM 3113B
WS-209-PF	30784167	Pb	< 5	ppb	5	SM 3113B
WS-210-FD	30784168	Pb	< 5	ppb	5	SM 3113B
WS-210-PF	30784169	Pb	< 5	ppb	5	SM 3113B
WS-211-FD	30784170	Pb	11	ppb	5	SM 3113B
WS-211-PF	30784171	Pb	< 5	ppb	5	SM 3113B
WS-212-FD	30784172	Pb	< 5	ppb	5	SM 3113B
WS-212-PF	30784173	Pb	< 5	ppb	5	SM 3113B
WS-213-FD	30784174	Pb	< 5	ppb	5	SM 3113B
WS-213-PF	30784175	Pb	< 5	ppb	5	SM 3113B
WS-214-FD	30784176	Pb	< 5	ppb	5	SM 3113B
WS-214-PF	30784177	Pb	< 5	ppb	5	SM 3113B



Metals Analysis of Drinking Water

ACC Environmental Consultants **Client ID:** 1117 Ben Schulte Bisping Report Number: M191468 7977 Capwell Dr., Suite 100 **Date Received:** 11/09/17 **Date Analyzed:** 11/14/17 Oakland, CA 94621 **Date Printed:** 11/16/17 First Reported: 11/16/17 Job ID / Site: 3007-119.00, AUSD Water Sampling, Paden Elementary, 444 Central Ave., **FALI Job ID:** 1117-1506 Alameda, CA 94501 Date(s) Collected: 11/5/17 **Total Samples Submitted:** 46 **Total Samples Analyzed:** Result Reporting Method Lab Number Units Limit* Sample Number Analyte Result Reference

Jamele Sile

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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^{*} The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

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Report to:		Ben Schul	te Bispin	g	Email: Bshulte@accenv.com					Phone: 510.773.0708				
Project Na	ime:	AUSD Wat	ter Samp	ling										
Project Ad	dress:	Paden Ele	mentary,	444 Central	Ave, Alameda	, CA 94	501		Pr	oject Nun	00			
Collected b	by:	Gus Valeri	ian						Da	te Collect				
Sample An	nalysis:	PLM	✓ Lead	GFAA			Stop at 1 st	Positive L	ayer Tu	rnaround	Time: 5	Day		
Comments	s:	ANALYZE	WATER S	AMPLES FOR	LEAD VIA GFA	AA								
Sample ID	mple ID Material						ocation [Quar or: Area(s) - Comp	7.7		5	ocation omponent	Size		
WS-192-FD	POTABLE V	WATER- FIRS	T DRAW			NE	end hallway 2nd	l floor	S	iolo silver, v	vall moun	fountain		
WS-192-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME A	AS ABOVE		
WS-193-FD	POTABLE V	VATER- FIRS	T DRAW				Roo	om 20				Fountain		
WS-193-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME	AS ABOVE		
WS-194-FD	POTABLE V	VATER- FIRS	T DRAW				Roc	om 24				Fountain		
WS-194-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME	AS ABOVE		
WS-195-FD	POTABLE V	VATER- FIRS	T DRAW				Roo	om 21				Fountain		
WS-195-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME	AS ABOVE		
WS-196-FD	POTABLE V	VATER- FIRS	T DRAW				Roo	om 23				Fountain		
WS-196-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME	AS ABOVE		
WS-197-FD	POTABLE V	VATER- FIRS	T DRAW				Roo	m 22				Fountain		
WS-197-PF	POTABLE V	VATER- POS	T FLUSH				SAME AS A	BOVE			SAME A	AS ABOVE 3 4 5 6		
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Report to:		Ben Schulte E	Bisping		Email: Bshulte@accenv.com Phone: 510.773.0708										
Project Na	me:	AUSD Water	Samplin	g											
Project Ad	ldress:	Paden Eleme	ntary, 4	44 Central	Ave, Alame	eda, CA 94	501			Projec	t Number	: 3007	7-119.00)	
Collected b	by:	Gus Valerian								Date C	ollected:	11/5	/2017		
Sample An	nalysis:	PLM 🗸	Lead	GFAA			Stop at	1 st Positiv	e Layer	Turnar	Furnaround Time: 5 Day				
Comments	s:	ANALYZE WA	TER SAM	APLES FOR	LEAD VIA	GFAA									
Sample ID	Material Size-Color-F	Pattern-Material	-Post Des	cription			ocation [Qu or: Area(s) - Co	10.00				ple Loc		Size	
WS-198-FD	POTABLE V	WATER- FIRST D	RAW		Downstai	rs hallway a	adjacent to co	nference entrance	Solo silv	er wall n	nount foun	tain, und	er fire hose		
WS-198-PF	POTABLE	WATER- POST FI	LUSH				SAME A	S ABOVE			SA	AME AS A	ABOVE		
WS-199-FD	POTABLE	WATER- FIRST D	RAW					Room 1				For	untain		
WS-199-PF	POTABLE	WATER- POST F	LUSH				SAME A	S ABOVE			SA	AME AS A	ABOVE	-	
WS-200-FD	POTABLE	WATER- FIRST D	RAW					Room 2				For	untain		
WS-200-PF	POTABLE	WATER- POST F	LUSH				SAME A	S ABOVE			SA	AME AS A	ABOVE		
WS-201-FD	POTABLE	WATER- FIRST D	RAW					Room 3				Fo	untain		
WS-201-PF	POTABLE	WATER- POST F	LUSH				SAME A	S ABOVE			Si	AME AS A	ABOVE		
WS-202-FD	POTABLE	WATER- FIRST D	RAW					Room 10				Fo	untain		
WS-202-PF	POTABLE	WATER- POST F	LUSH				SAME A	S ABOVE			S	AME AS	ABOVE		
WS-203-FD	POTABLE	WATER- FIRST D	PRAW					Room 4				Fo	untain		
WS-203-PF	POTABLE	WATER- POST F	LUSH				SAME A	S ABOVE			S	2 3 4			
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Report to:		Ben Schul	te Bisping		Email:	Bshulte	@accenv.com						
Project Na	ime:	AUSD Wa	ter Samplir	ng									
Project Ad	ldress:	Paden Ele	mentary, 4	44 Central	Ave, Alameda, CA 94501					Project Number: 3007-11			0.00
Collected i	by:	Gus Valer	ian							Date Coll	ected:	11/5/201	.7
Sample An	nalysis:	alysis: PLM 🗸 Lead GFAA Stop at 1 st Positive Layer Turnaround Time: 5 Day								5 Day			
Comment	s:	ANALYZE	WATER SAI	MPLES FOR	LEAD VIA	SFAA							
Sample ID	Material Size-Color-Pattern-Material-Post Description				Material Location [Quantity] Building or Floor: Area(s) - Component					Size			
WS-204-FD	POTABLE WATER- FIRST DRAW							Room 9				Fountair	n
WS-204-PF	POTABLE	WATER- POS	ST FLUSH				SAME AS	ABOVE			SAI	ME AS ABOVI	E
WS-205-FD	POTABLE	WATER- FIRS	ST DRAW				- 0	Room 5				Fountain	n
WS-205-PF	POTABLE WATER- POST FLUSH				SAME AS ABOVE					SAME AS ABOV			E
WS-206-FD	POTABLE WATER- FIRST DRAW				Room 8						n		
WS-206-PF	POTABLE WATER- POST FLUSH			SAME AS ABOVE						E			
WS-207-FD	POTABLE	WATER- FIRS	ST DRAW		1st floor, East end of Hallway, adjacent to room 6				Silv	er, wall m	ount fountai	n	
WS-207-PF	POTABLE	WATER- POS	ST FLUSH		SAME AS ABOVE				SAME AS ABOV			E	
WS-208-FD	POTABLE	WATER- FIRS	ST DRAW		Room 6					Fountain			n
WS-208-PF	POTABLE	WATER- POS	ST FLUSH				SAME AS	ABOVE			SAI	ME AS ABOV	E
WS-209-FD	POTABLE	WATER- FIRS	ST DRAW			***************************************		Room 7				Fountai	n
WS-209-PF	POTABLE	WATER- POS	ST FLUSH		SAME AS ABOVE				SAME AS ABOVE				
Released:					Signature:				Date	e:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECEIOS	10
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Lab Info							Road # 409, F					8888	57
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Report to:		Ben Schulte Bisping	Email: Bshulte	@accenv.com	Phone: 510.773.0708				
Project Na	ame:	AUSD Water Sampling							
Project Ad	ddress:	Paden Elementary, 444 Co	entral Ave, Alameda, CA 9	4501		Project Number: 3007-119.00			
Collected	by:	Gus Valerian				Date Collected: 11/5/2017			
Sample A	nalysis:	PLM / Lead G	FAA	Stop at 1 st Positi	ve Layer	Turnaround Time: 5 Day			
Comment	s:	ANALYZE WATER SAMPLE	S FOR LEAD VIA GFAA						
Sample ID	Materia Size-Color-	 Pattern-Material-Post Description		ocation [Quantity] oor: Area(s) - Component		Sample Location Area - Component	iize		
WS-210-FD	POTABLE	WATER- FIRST DRAW		Room B		Fountain			
WS-210-PF	POTABLE	WATER- POST FLUSH		SAME AS ABOVE		SAME AS ABOVE			
WS-211-FD	POTABLE	WATER- FIRST DRAW		Room A		Fountain			
WS-211-PF	POTABLE	WATER- POST FLUSH		SAME AS ABOVE	SAME AS ABOVE				
WS-212-FD	POTABLE	WATER- FIRST DRAW		Room D		Fountain			
WS-212-PF	POTABLE	WATER- POST FLUSH		SAME AS ABOVE		SAME AS ABOVE			
WS-213-FD	POTABLE	WATER- FIRST DRAW		Room C		Fountain			
WS-213-PF	POTABLE	WATER- POST FLUSH		SAME AS ABOVE		SAME AS ABOVE			
WS-214-FD	POTABLE	WATER- FIRST DRAW		, exterior south wall of between boys and girls restroom entrances	Dual silve	er wall mount fountains, right side			
WS-214-PF	POTABLE	WATER- POST FLUSH		SAME AS ABOVE		SAME AS ABOVE			
						123456			
Released:			Signature:		Date	Time:			
Received:		C.Hallister	Signature:	MAD	Date	: NOV 0 9 2017			
Lab Info:	✓ Foren	Analytical, Inc. (EMSL): 46 sic Analytical Laboratories	54 McCormick Street, Sal	Road # 409 Hayward	577, (510)	94545 (670) 887 8828			
			The second		Cumonila	37373, 374 007 7020			