



December 13, 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) – Franklin Elementary School Drinking Fountains**  
**1433 San Antonio 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 October 9 and November 30, 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 (20) 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 40 drinking water samples at 20 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)
FS-1-FD	South Hallway by Office	First Draw	<5
FS-1-PF		Post-Flush	<5
FS-2-FD	Playground Southeast by Elevator	First Draw	<5
FS-2-PF		Post-Flush	<5
FS-3-FD	Playground Northeast	First Draw	<5
FS-3-PF		Post-Flush	<5
FS-4-FD	2 <sup>nd</sup> Floor Walkway North	First Draw	<5
FS-4-PF		Post-Flush	<5
FS-5-FD	2 <sup>nd</sup> Floor Walkway South by Elevator	First Draw	<5
FS-5-PF		Post-Flush	<5
WS-360-FD	Multi-Purpose Room Kitchenette	First Draw	<5
WS-360-PF		Post-Flush	<5
WS-362-FD	Room 2	First Draw	<5
WS-362-PF		Post-Flush	<5
WS-363-FD	Room 3	First Draw	<5
WS-363-PF		Post-Flush	<5
WS-364-FD	Room 4	First Draw	<5
WS-364-PF		Post-Flush	<5
WS-365-FD	Room 5	First Draw	<5
WS-365-PF		Post-Flush	<5
WS-367-FD	Room 15	First Draw	<5
WS-367-PF		Post-Flush	<5
WS-368-FD	Room 14	First Draw	<5
WS-368-PF		Post-Flush	<5
WS-369-FD	Room 12	First Draw	<5
WS-369-PF		Post-Flush	<5
WS-370-FD	Room 11	First Draw	<5
WS-370-PF		Post-Flush	<5
WS-371-FD	Room 10	First Draw	<5
WS-371-PF		Post-Flush	<5
WS-373-FD	Room 9	First Draw	<5
WS-373-PF		Post-Flush	<5
WS-374-FD	Room 8	First Draw	<5
WS-374-PF		Post-Flush	<5
WS-375-FD	Room 7	First Draw	<5
WS-375-PF		Post-Flush	<5
WS-376-FD	Room 6	First Draw	<5
WS-376-PF		Post-Flush	<5
WS-378-FD	Staff Room Kitchenette	First Draw	<5
WS-378-PF		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 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.

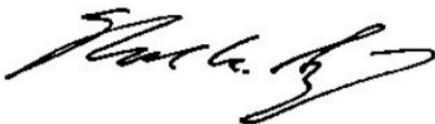
Please contact me at (510) 638-8400 ext. 109 if you have any questions.

Sincerely,

ACC ENVIRONMENTAL CONSULTANTS, INC.



Ben Schulte-Bisping  
Project Manager  
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 #M190287, dated 10/12/17.  
Forensic Analytical Metals Analysis of Drinking Water Report #M192451, dated 12/13/17.



# Metals Analysis of Drinking Water

ACC Environmental Consultants  
Ben Schulte-Bisping  
7977 Capwell Dr., Suite 100  
  
Oakland, CA 94621

**Client ID:** 1117  
**Report Number:** M190287  
**Date Received:** 10/10/17  
**Date Analyzed:** 10/11/17  
**Date Printed:** 10/12/17  
**First Reported:** 10/12/17

**Job ID / Site:** 3007-166.00, AUSD Franklin ES, 1433 San Antonio Ave., Alameda  
**Date(s) Collected:** 10/9/17

**FALI Job ID:** 1117  
**Total Samples Submitted:** 10  
**Total Samples Analyzed:** 10

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
FS-1FD	30781192	Pb	< 5	ppb	5	SM 3113B
FS-1PF	30781193	Pb	< 5	ppb	5	SM 3113B
FS-2FD	30781194	Pb	< 5	ppb	5	SM 3113B
FS-2PF	30781195	Pb	< 5	ppb	5	SM 3113B
FS-3FD	30781196	Pb	< 5	ppb	5	SM 3113B
FS-3PF	30781197	Pb	< 5	ppb	5	SM 3113B
FS-4FD	30781198	Pb	< 5	ppb	5	SM 3113B
FS-4PF	30781199	Pb	< 5	ppb	5	SM 3113B
FS-5FD	30781200	Pb	< 5	ppb	5	SM 3113B
FS-5PF	30781201	Pb	< 5	ppb	5	SM 3113B

\* 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.

*Daniele Siu*

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Quality control and sample receipt condition were acceptable unless otherwise noted.



Report Results			
Report To:	Ben Schulte-Bisping	Phone:	510-773-0708
Email Address:	bschulte@accenv.com		
Turnaround Time:	48-hour		

# BULK SAMPLE ANALYSIS REQUEST FORM (v2015.12.09)

Project Name:	AVSD Franklin ES			Analysis Requested			
Project Address:	1433 San Antonio Ave, Alameda			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACC Project Number:	3007-116.00			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collected By:	B. Schulte	Sample Date:	10/9/17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes/Comments:	Lead in Drinking Water			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Material Code	HM Number	Sample Number	Material Description	Sample Location	Size
FS	1	FD	Outdoor Drinking Fountain Water Sample	Franklin ES Outdoor Drinking Fountains	
FS	1	PF			
FS	2	FD			
FS	2	PF			
FS	3	FD			
FS	3	PF			
FS	4	FD			
FS	4	PF			
FS	5	FD			
FS	5	PF			

Released By (Name):	<i>B. Schulte</i>	Released By (Signature):		Date:		Time:	
Received By (Name):		Received By (Signature):		Date:		Time:	
Laboratory Performing Analysis:	Forensic						





# Metals Analysis of Drinking Water

ACC Environmental Consultants  
Ben Schulte  
7977 Capwell Dr., Suite 100  
  
Oakland, CA 94621

**Client ID:** 1117  
**Report Number:** M192451  
**Date Received:** 12/04/17  
**Date Analyzed:** 12/12/17  
**Date Printed:** 12/13/17  
**First Reported:** 12/13/17

**Job ID / Site:** 3007-119.00, AUSD Water Sampling, Frankin Elementary  
**Date(s) Collected:** 11/30/17

**FALI Job ID:** 1117-1506  
**Total Samples Submitted:** 40  
**Total Samples Analyzed:** 40

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-360-FD	30787573	Pb	< 5	ppb	5	SM 3113B
WS-360-PF	30787574	Pb	< 5	ppb	5	SM 3113B
WS-362-FD	30787577	Pb	< 5	ppb	5	SM 3113B
WS-362-PF	30787578	Pb	< 5	ppb	5	SM 3113B
WS-363-FD	30787579	Pb	< 5	ppb	5	SM 3113B
WS-363-PF	30787580	Pb	< 5	ppb	5	SM 3113B
WS-364-FD	30787581	Pb	< 5	ppb	5	SM 3113B
WS-364-PF	30787582	Pb	< 5	ppb	5	SM 3113B
WS-365-FD	30787583	Pb	< 5	ppb	5	SM 3113B
WS-365-PF	30787584	Pb	< 5	ppb	5	SM 3113B
WS-367-FD	30787587	Pb	< 5	ppb	5	SM 3113B
WS-367-PF	30787588	Pb	< 5	ppb	5	SM 3113B
WS-368-FD	30787589	Pb	< 5	ppb	5	SM 3113B
WS-368-PF	30787590	Pb	< 5	ppb	5	SM 3113B
WS-369-FD	30787591	Pb	< 5	ppb	5	SM 3113B
WS-369-PF	30787592	Pb	< 5	ppb	5	SM 3113B
WS-370-FD	30787593	Pb	< 5	ppb	5	SM 3113B
WS-370-PF	30787594	Pb	< 5	ppb	5	SM 3113B
WS-371-FD	30787595	Pb	< 5	ppb	5	SM 3113B
WS-371-PF	30787596	Pb	< 5	ppb	5	SM 3113B
WS-373-FD	30787599	Pb	< 5	ppb	5	SM 3113B
WS-373-PF	30787600	Pb	< 5	ppb	5	SM 3113B
WS-374-FD	30787601	Pb	< 5	ppb	5	SM 3113B
WS-374-PF	30787602	Pb	< 5	ppb	5	SM 3113B
WS-375-FD	30787603	Pb	< 5	ppb	5	SM 3113B
WS-375-PF	30787604	Pb	< 5	ppb	5	SM 3113B
WS-376-FD	30787605	Pb	< 5	ppb	5	SM 3113B



# Metals Analysis of Drinking Water

ACC Environmental Consultants  
Ben Schulte  
7977 Capwell Dr., Suite 100  
  
Oakland, CA 94621

**Client ID:** 1117  
**Report Number:** M192451  
**Date Received:** 12/04/17  
**Date Analyzed:** 12/12/17  
**Date Printed:** 12/13/17  
**First Reported:** 12/13/17

**Job ID / Site:** 3007-119.00, AUSD Water Sampling, Frankin Elementary  
**Date(s) Collected:** 11/30/17

**FALI Job ID:** 1117-1506  
**Total Samples Submitted:** 40  
**Total Samples Analyzed:** 40

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
WS-376-PF	30787606	Pb	< 5	ppb	5	SM 3113B
WS-378-FD	30787609	Pb	< 5	ppb	5	SM 3113B
WS-378-PF	30787610	Pb	< 5	ppb	5	SM 3113B

\* 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.

*Daniele Siu*

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Quality control and sample receipt condition were acceptable unless otherwise noted.



# BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Ben Schulte Bisping	Email:	Bshulte@accenv.com	Phone:	510.773.0708
Project Name:	AUSD Water Sampling				
Project Address:	Franklin Elementary	Project Number:	3007-119.00		
Collected by:	Gus Valerian	Date Collected:	11/30/2017		
Sample Analysis:	PLM <input checked="" type="checkbox"/> Lead	GFAA	<b>Stop at 1<sup>st</sup> Positive Layer</b>	Turnaround Time:	5 Day

Comments: ANALYZE WATER SAMPLES FOR LEAD VIA GFAA

Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size
WS-359-FD	POTABLE WATER- FIRST DRAW	1st floor office building corridor, San Antonio St side	Dual silver fountains , right side	
WS-359-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-360-FD	POTABLE WATER- FIRST DRAW	Multi purpose room kitchenette	Silver faucet Cups adjacent	
WS-360-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-361-FD	POTABLE WATER- FIRST DRAW	1st floor, exterior, north side of elevator shaft	Dual silver right fountain	
WS-361-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-362-FD	POTABLE WATER- FIRST DRAW	Room 2	Fountain	
WS-362-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-363-FD	POTABLE WATER- FIRST DRAW	Room 3	Fountain	
WS-363-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-364-FD	POTABLE WATER- FIRST DRAW	Room 4	Fountain	
WS-364-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	

Released:	Signature:	Date:	Time:
Received:	Signature: <i>[Signature]</i>	Date: <b>DEC 04 2017</b>	Time: <b>12:45</b>
Lab Info:	<b>EMSL Analytical, Inc. (EMSL):</b> 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 <input checked="" type="checkbox"/> <b>Forensic Analytical Laboratories, Inc. (FALI):</b> 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828		





# BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Ben Schulte Bisping	Email:	Bshulte@accenv.com	Phone:	510.773.0708
Project Name:	AUSD Water Sampling				
Project Address:	Franklin Elementary	Project Number:	3007-119.00		
Collected by:	Gus Valerian	Date Collected:	11/30/2017		
Sample Analysis:	PLM <input checked="" type="checkbox"/> Lead	GFAA	<b>Stop at 1<sup>st</sup> Positive Layer</b>	Turnaround Time:	5 Day
Comments:	ANALYZE WATER SAMPLES FOR LEAD VIA GFAA				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
WS-365-FD	POTABLE WATER- FIRST DRAW	Room 5	Fountain		
WS-365-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
WS-366-FD	POTABLE WATER- FIRST DRAW	Outdoor Playground, adjacent to basketball courts	White triple, south most fountain		
WS-366-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
WS-367-FD	POTABLE WATER- FIRST DRAW	Room 15	Fountain		
WS-367-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
WS-368-FD	POTABLE WATER- FIRST DRAW	Room 14	Fountain		
WS-368-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
WS-369-FD	POTABLE WATER- FIRST DRAW	Room 12	Fountain		
WS-369-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
WS-370-FD	POTABLE WATER- FIRST DRAW	Room 11	Fountain		
WS-370-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE		
Released:		Signature:		Date:	
Received:	S. Hillister	Signature:		Date:	
Lab Info:	EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 <input checked="" type="checkbox"/> Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828				





# BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Ben Schulte Bisping	Email:	Bshulte@accenv.com	Phone:	510.773.0708
Project Name:	AUSD Water Sampling				
Project Address:	Franklin Elementary	Project Number:	3007-119.00		
Collected by:	Gus Valerian	Date Collected:	11/30/2017		
Sample Analysis:	PLM	<input checked="" type="checkbox"/> Lead	GFAA	<b>Stop at 1<sup>st</sup> Positive Layer</b>	Turnaround Time: 5 Day
Comments:	ANALYZE WATER SAMPLES FOR LEAD VIA GFAA				

Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size
WS-371-FD	POTABLE WATER- FIRST DRAW	Room 10	Fountain	
WS-371-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-372-FD	POTABLE WATER- FIRST DRAW	2nd floor exterior fountain, under portico, adjacent to room 9	Dual silver, right fountain	
WS-372-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-373-FD	POTABLE WATER- FIRST DRAW	Room 9	Fountain	
WS-373-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-374-FD	POTABLE WATER- FIRST DRAW	Room 8	Fountain	
WS-374-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-375-FD	POTABLE WATER- FIRST DRAW	Room 7	Fountain	
WS-375-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	
WS-376-FD	POTABLE WATER- FIRST DRAW	Room 6	Fountain	
WS-376-PF	POTABLE WATER- POST FLUSH	SAME AS ABOVE	SAME AS ABOVE	

Released:	Signature:	Date:	Time:
Received:	<i>S. Hollister</i>	Signature:	<i>[Signature]</i>
Lab Info:	EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 <input checked="" type="checkbox"/> Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828		

