A·C·C ENVIRONMENTAL CONSULTANTS
An Employee Owned Company

September 11, 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) – Edison Elementary School Outdoor Drinking Fountains**
**2700 Buena Vista Ave, Alameda, CA**
*ACC Project No. 3007-116.00*

Dear Mr. Lee:

Enclosed please find the laboratory test results for the limited drinking water sampling performed at the above-referenced site on September 1, 2017. The sampling was performed to determine lead concentrations in drinking water at oudoor drinking fountain locations.

The intent of the testing was to collect representative water samples to determine if lead concentrations at outdoor drinking water locations exceed the EPA and California Lead Action Levels. The EPA and State of California Lead Action Levels for drinking water are concentrations exceeding 15 parts per billion (ppb). ACC collected drinking water samples from eight (8) locations at the subject property. 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 sixteen (16) drinking water samples for analysis. Copies of the laboratory results are attached.

## Drinking Water Sample Results

The water samples were obtained from various 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 source of drinking water. Not all water sources were sampled.

| Sample Number | Location | Type of Draw | Lead Concentration in Parts Per Billion (PPB) |
|---|---|---|---|
| WS-ES-1-FD | Outdoor Drinking Fountain at Northeast Walkway by Classroom PC5 and MC/L | First Draw | <5 |
| WS-ES-1-PF | Outdoor Drinking Fountain at Northeast Walkway by Classroom PC5 and MC/L | Post-Flush | <5 |
| **WS-ES-2-FD** | **Outdoor Drinking Fountain at North Walkway by Classroom C8** | **First Draw** | **22** |
| WS-ES-2-PF | Outdoor Drinking Fountain at North Walkway by Classroom C8 | Post-Flush | 6 |
| WS-ES-3-FD | Outdoor Drinking Fountain at North Walkway by Classroom C4 | First Draw | <5 |
| WS-ES-3-PF | Outdoor Drinking Fountain at North Walkway by Classroom C4 | Post-Flush | <5 |
| WS-ES-4-FD | Outdoor Drinking Fountain at Multi-Purpose Room at Northwest School Entrance | First Draw | <5 |
| WS-ES-4-PF | Outdoor Drinking Fountain at Multi-Purpose Room at Northwest School Entrance | Post-Flush | <5 |
| WS-ES-5-FD | Outdoor Drinking Fountain at Playground Northeast | First Draw | <5 |
| WS-ES-5-PF | Outdoor Drinking Fountain at Playground Northeast | Post-Flush | <5 |
| WS-ES-6-FD | Outdoor Drinking Fountain at Southwest Campus Garden Area | First Draw | <5 |
| WS-ES-6-PF | Outdoor Drinking Fountain at Southwest Campus Garden Area | Post-Flush | <5 |
| WS-ES-7-FD | Outdoor Drinking Fountain at Center Walkway between Classrooms C5 and C14 | First Draw | <5 |
| WS-ES-7-PF | Outdoor Drinking Fountain at Center Walkway between Classrooms C5 and C14 | Post-Flush | <5 |
| WS-ES-8-FD | Outdoor Drinking Fountain at Center Walkway between Classrooms C1 and C13 | First Draw | 12 |
| WS-ES-8-PF | Outdoor Drinking Fountain at Center Walkway between Classrooms C1 and C13 | Post-Flush | <5 |

Most lead drinking water "first-draw" and "post-flush" water sample results at the locations tested were below the lead Action Levels. The "first-draw" sample WS-ES-2-FD exceeded the lead Action Level with a concentration of 22 PPB, and a "post-flush" lead concentration of 6 PPB. 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. If the action level for lead is exceeded, public notification is required.

**Recommendations**

ACC makes the following recommendations:

- Disconnect and/or replace the drinking fountain located at Classroom C8 (Sample ID WS-ES-2-FD, PF).
- Disconnect and/or replace the drinking fountain located between Classrooms C1 and C13, or perform periodic monitoring to ensure the lead concentrations remain below the Action Level.
- ACC recommends periodic water sampling of drinking water sources (i.e. water fountains, kitchen sinks, etc.) to monitor for any changes.

**Limitations**

ACC shall not be responsible for claims that may arise out of failure to correct problems or to identify problems that may exist in this building. 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.

B. Schulte-Bisping

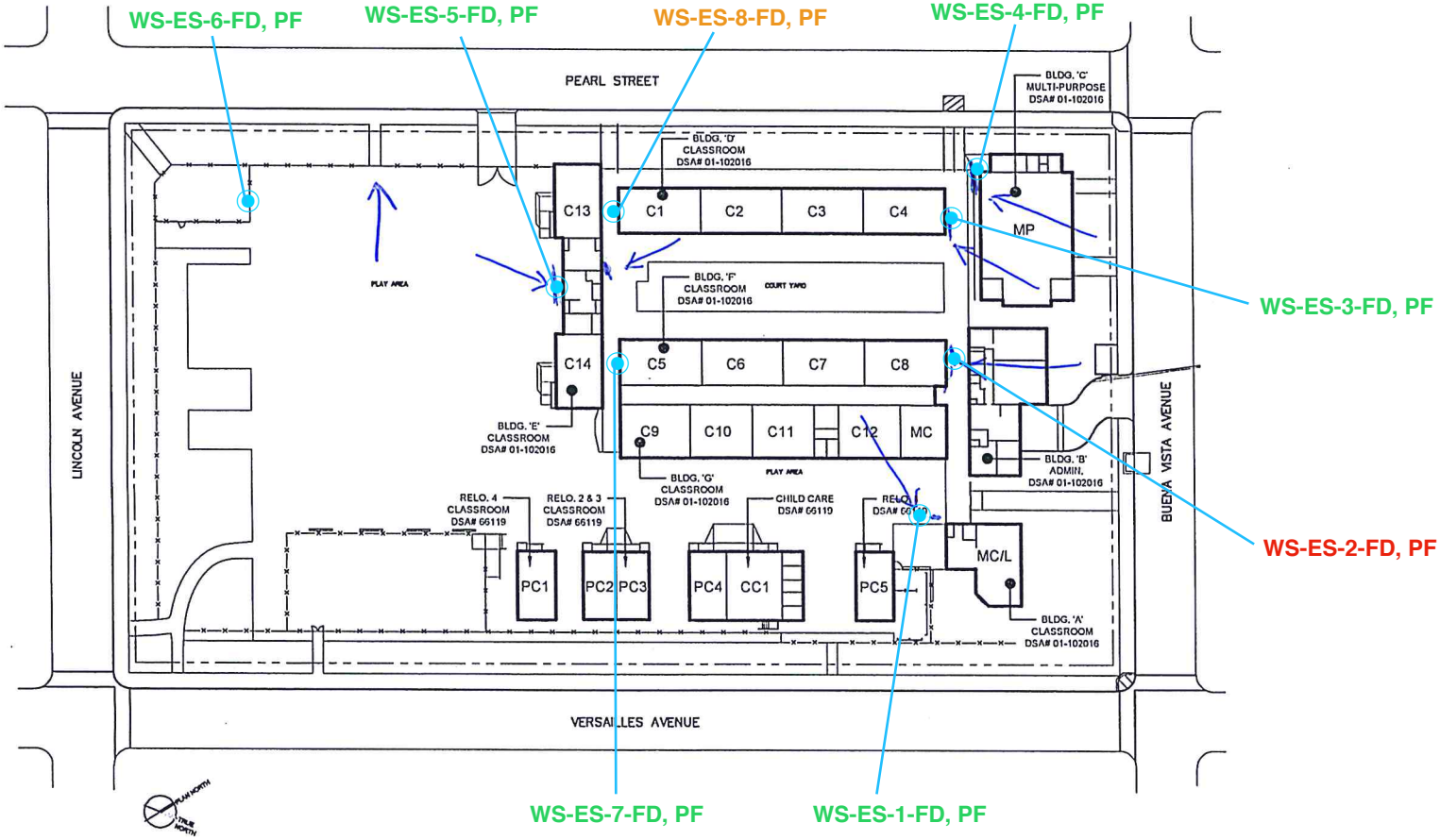
Ben Schulte-Bisping
Project Manager
California Department of Public Health Lead Inspector/Assessor/Monitor #24564

Attachments: Forensic Analytical *Metals Analysis of Drinking Water* Report #M189003, dated 09/06/17.

# AUSD Edison ES Water Sampling (09/01/2017)

Legend:

- Drinking Fountain Water Sampling Location
- **Green** No Lead Detected in First Draw (FD) or Post-Flush (PF) Water Sample
- **Orange** Detectable Lead below 15 parts per billion (PPB) limit in FD or PF Water Sample
- **Red** Lead Levels above 15 PPB Limit in FD or PF Water Sample




## LEGEND

| | |
|---|---|
| C | CLASSROOM |
| PC | PORTABLE CLASSROOM |
| MC/L | MEDIA CENTER / LIBRARY |
| MP | MULTI-PURPOSE |
| CC | CHILD CARE |

## SQUARE FOOTAGE

| | | | |
|---|---|---|---|
| C1- | 1035 SF | CC1- | 1920 SF |
| C2- | 1028 SF | | |
| C3- | 1035 SF | MP- | 3092 SF |
| C4- | 1037 SF | MC- | 697 SF |
| C5- | 1032 SF | MC/L- | 1307 SF |
| C6- | 1026 SF | | |
| C7- | 1034 SF | | |
| C8- | 1027 SF | | |
| C9- | 1054 SF | | |
| C10- | 932 SF | | |
| C11- | 934 SF | | |
| C12- | 936 SF | | |
| C13- | 953 SF | | |
| C14- | 953 SF | | |
| PC1- | 960 SF | | |
| PC2- | 960 SF | | |
| PC3- | 960 SF | | |
| PC4- | 960 SF | | |
| PC5- | 960 SF | | |

PROPERTY LINE

ORIGINAL FACILITY BUILT: 1938
BUILDING AREA: 25,546 SF
RELOCATABLE AREA: 6,720 SF

NOTE:
1.CANOPIES AND COVERED AREAS ARE NOT INCLUDED IN TOTAL SQUARE FOOTAGE.
2. CLASSROOM SQUARE FOOTAGE ABOVE IS GROSS FOOTAGE.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2700 BUENA VISTA AVENUE, ALAMEDA, CALIFORNIA 94502

Forensic Analytical LABORATORIES

**Final Report**

# Metals Analysis of Drinking Water

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

Oakland, CA 94621

**Client ID:** 1117
**Report Number:** M189003
**Date Received:** 09/01/17
**Date Analyzed:** 09/05/17
**Date Printed:** 09/06/17
**First Reported:** 09/06/17

**Job ID / Site:** 3007-16.00, AUSD Edison ES Outdoor Drinking Fountain Water Sampling, 2700 Buena Vista Ave., Alameda, CA
**Date(s) Collected:** 9/1/17

**FALI Job ID:** 1117
**Total Samples Submitted:** 16
**Total Samples Analyzed:** 16

| Sample Number | Lab Number | Analyte | Result | Result Units | Reporting Limit* | Method Reference |
|---|---|---|---|---|---|---|
| WS-ES-1-FD | 30777912 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-1-PF | 30777913 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-2-FD | 30777914 | Pb | 22 | ppb | 5 | SM 3113B |
| WS-ES-2-PF | 30777915 | Pb | 6 | ppb | 5 | SM 3113B |
| WS-ES-3-FD | 30777916 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-3-PF | 30777917 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-4-FD | 30777918 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-4-PF | 30777919 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-5-FD | 30777920 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-5-PF | 30777921 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-6-FD | 30777922 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-6-PF | 30777923 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-7-FD | 30777924 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-7-PF | 30777925 | Pb | < 5 | ppb | 5 | SM 3113B |
| WS-ES-8-FD | 30777926 | Pb | 12 | ppb | 5 | SM 3113B |
| WS-ES-8-PF | 30777927 | 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





3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

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

ACC ENVIRONMENTAL CONSULTANTS

# BULK SAMPLE ANALYSIS REQUEST FORM (v2015.12.09)

| | | | |
|---|---|---|---|
| Project Name: | AUSD Edison Elementary School Outdoor Drinking Fountains Water Sampling | | |
| Project Address: | 2700 Buena Vista Ave, Alameda, CA | | |
| ACC Project Number: | 3007-116.00 | | |
| Collected By: | B. Schulte | Sample Date: | 9/1/17 |
| Notes/ Comments: | | | |

Analysis Requested

- ☐ PLM: Standard
- ☐ TEM: Qualative
- ☐ PCB's: (Arochlors Only)
- ☐ Bacteria
- ☐ PLM: Point Count (400)
- ☐ TEM: Quantitive
- ☐ PCB's: (Arochlors & Congeners)
- ☐ Particulate
- ☐ PLM: Point Count (1000)
- ☒ Lead
- ☐ Fungi: Direct Exam
- ☐ Other

| Material Code | HM Number | Sample Number | Material Description | Sample Location | Size |
|---|---|---|---|---|---|
| WS | ES | 1-FD | Drinking fountain water sample | | |
| WS | ES | 1-PF | | | |
| WS | ES | 2-FD | | | |
| WS | ES | 2-PF | | | |
| WS | ES | 3-FD | | | |
| WS | ES | 3-PF | | | |
| WS | ES | 4-FD | | | |
| WS | ES | 4-PF | | | |
| WS | ES | 5-FD | | | |
| WS | ES | 5-PF | | | |
| WS | ES | 6-FD | | | |
| WS | ES | 6-PF | | | |
| WS | ES | 7-FD | | | |
| WS | ES | 7-PF | | | |
| WS | ES | 8-FD | | | |
| WS | ES | 8-PF | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Released By (Name): | | Released By (Signature): | | Date: | | Time: | 9:30 am |
| Received By (Name): | | Received By (Signature): | | Date: | | Time: | |
| Laboratory Performing Analysis: | Forensic | | | | | | |

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