Pasadena Unified School District

San Rafael Elementary

2017 Drinking Water Lead Testing Records

This packet brings together the available original laboratory reports and supporting sampling records for this site. See the dated source documents for sample locations, results, reporting limits, and any follow-up testing.

Documents included

San Rafael Lead Results | pages 2-15

Lead sampling-San Rafael (signed)-annotated | pages 16-22

Sampling location photographs | pages 23-24

Select a document above to jump to it. Original reports are reproduced in full; Word and Excel supporting records have been converted to PDF.

Historical records only. These documents describe the samples and conditions recorded in 2017, not every outlet or current water conditions. Separate 2023 preschool testing is not included.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7G14062
Project:	Lead Testing
Attn:	Mercedes Acevedo
Client:	Pasadena Water & Power 245 West Mountain Pasadena, CA 91101

Report Date:	7/28/2017
Received Date:	7/13/2017
Turnaround Time:	Normal
Phones:	(626) 744-3704
Fax:	-
P.O. #:	1171742-00
Billing Code:	

DoD-ELAP #L2457 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● Guam-EPA #17-008R ● HW-DOH # ● ISO 17025 #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● NV-DEP #NAC 445A ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Mercedes Acevedo,

Enclosed are the results of analyses for samples received 7/13/17 with the Chain-of-Custody document. The samples were received in good condition, at 21.6 °C. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Chris Samatmanakit
Project Manager

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Pasadena Water & Power
245 West Mountain
Pasadena, CA 91101

Project Number: Lead Testing

Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
1910124-AAH-A / SRES-1-A, Alias: 1707110, RegID: 1910124-AAH-A	Myriam Cardenas	7G14062-01	Water	07/06/17 06:39	
1910124-AAH-A X/ SRES-1-B, Alias: 1707111	Myriam Cardenas	7G14062-02	Water	07/06/17 06:39	
1910124-AAH-B/ SRES-2-A, Alias: 1707112, RegID: 1910124-AAH-B	Myriam Cardenas	7G14062-03	Water	07/06/17 06:44	
1910124-AAH-BX/ SRES-2-B, Alias: 1707113	Myriam Cardenas	7G14062-04	Water	07/06/17 06:44	
1910124-AAH-C/ SRES-3-A, Alias: 1707114, RegID: 1910124-AAH-C	Myriam Cardenas	7G14062-05	Water	07/06/17 06:47	
1910124-AAH-CX/ SRES-3-B, Alias: 1707115	Myriam Cardenas	7G14062-06	Water	07/06/17 06:47	
1910124-AAH-D/ SRES-4-A, Alias: 1707116, RegID: 1910124-AAH-D	Myriam Cardenas	7G14062-07	Water	07/06/17 06:54	
1910124-AAH-DX/ SRES-4-B, Alias: 1707117	Myriam Cardenas	7G14062-08	Water	07/06/17 06:54	
1910124-AAH-E/ SRES-5-A, Alias: 1707118, RegID: 1910124-AAH-E	Myriam Cardenas	7G14062-09	Water	07/06/17 07:01	
1910124-AAH-EX/ SRES-5-B, Alias: 1707119	Myriam Cardenas	7G14062-10	Water	07/06/17 07:01	

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245 West Mountain
Pasadena, CA 91101

Project Number: Lead Testing

Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Results

Sample: 1910124-AAH-A / SRES-1-A, Alias: 1707110, RegID: 1910124-AAH-A
7G14062-01 (Water)

Sampled: 07/06/17 6:39 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:42	

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Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-A X/ SRES-1-B, Alias: 1707111
7G14062-02 (Water)

Sampled: 07/06/17 6:39 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:43	

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Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-B/ SRES-2-A, Alias: 1707112, RegID: 1910124-AAH-B
7G14062-03 (Water)

Sampled: 07/06/17 6:44 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:45	

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Project Number: Lead Testing

Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-BX/ SRES-2-B, Alias: 1707113
7G14062-04 (Water)

Sampled: 07/06/17 6:44 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:47	

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Project Number: Lead Testing

Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-C/ SRES-3-A, Alias: 1707114, RegID: 1910124-AAH-C
7G14062-05 (Water)

Sampled: 07/06/17 6:47 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:54	

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Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-CX/ SRES-3-B, Alias: 1707115
7G14062-06 (Water)

Sampled: 07/06/17 6:47 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:56	

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Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-D/ SRES-4-A, Alias: 1707116, RegID: 1910124-AAH-D
7G14062-07 (Water)

Sampled: 07/06/17 6:54 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:57	

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Reported:
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Sample Results

(Continued)

Sample: 1910124-AAH-DX/ SRES-4-B, Alias: 1707117
7G14062-08 (Water)

Sampled: 07/06/17 6:54 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 13:59	

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Project Number: Lead Testing

Project Manager: Mercedes Acevedo

Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-E/ SRES-5-A, Alias: 1707118, RegID: 1910124-AAH-E
7G14062-09 (Water)

Sampled: 07/06/17 7:01 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 14:01	

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Project Number: Lead Testing

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Reported:
07/28/2017 13:20

Sample Results

(Continued)

Sample: 1910124-AAH-EX/ SRES-5-B, Alias: 1707119
7G14062-10 (Water)

Sampled: 07/06/17 7:01 by Myriam Cardenas

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8	**Batch ID:** W7G1031	**Prepared:** 07/18/17 12:08				**Analyst:** APA
Lead, Total	ND	5.0	ug/l	1	07/18/17 14:02	

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Reported:
07/28/2017 13:20

Quality Control Results

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7G1031 - EPA 200.8										
Blank (W7G1031-BLK1)				**Prepared & Analyzed: 07/18/17**						
Lead, Total	ND	5.0	ug/l							
LCS (W7G1031-BS1)				**Prepared & Analyzed: 07/18/17**						
Lead, Total	49.7	5.0	ug/l	50.0		99	85-115			
Matrix Spike (W7G1031-MS1)	**Source: 7G14060-07**			**Prepared & Analyzed: 07/18/17**						
Lead, Total	48.7	5.0	ug/l	50.0	0.424	97	70-130			
Matrix Spike (W7G1031-MS2)	**Source: 7G14063-04**			**Prepared & Analyzed: 07/18/17**						
Lead, Total	50.5	5.0	ug/l	50.0	1.84	97	70-130			
Matrix Spike Dup (W7G1031-MSD1)	**Source: 7G14060-07**			**Prepared & Analyzed: 07/18/17**						
Lead, Total	48.6	5.0	ug/l	50.0	0.424	96	70-130	0.2	30	
Matrix Spike Dup (W7G1031-MSD2)	**Source: 7G14063-04**			**Prepared & Analyzed: 07/18/17**						
Lead, Total	50.9	5.0	ug/l	50.0	1.84	98	70-130	0.7	30	

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245 West Mountain
Pasadena, CA 91101

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Reported:
07/28/2017 13:20

Notes and Definitions

Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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Pasadena Water & Power and San Rafael Elementary School Lead Sampling Plan

Water System Name: Pasadena Water & Power

Water System Number: 1910124

School Name: San Rafael Elementary School

School Address: 1090 Nithsdale Rd., Pasadena, CA 91105-1499

Meeting Date: _____

PWP Representative:

Myriam Cardenas 6/27/17

Myriam Cardenas
Principal Chemist

Pasadena Unified School District Representative:

6-29-17

Signature & Date

Nelson M. Cayabyab, Chief Facilities

Print Name

Sample Recordkeeping Form

Sample No. 1

Name of Building: A-Building/1st Floor

Location Description: Hallway next to Stockroom

Type of Outlet: Indoor Fountain

Sample I.D.: 1910124-AAH-A

Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES: Two initial samples were collected SRES-1-A and SRES-1-B on the same day. A was collected first and immediately after, B was collected. No water flushed between samples. Sample ID 1910124-AAH-A corresponds to SRES-1-A. Sample ID 1910124-AAH-AX corresponds to SRES-1-B.



Sample Recordkeeping Form

Sample No. 2

Name of Building: A-Building/1st Floor

Location Description: Teacher's Lounge

Type of Outlet: Sink Faucet

Sample I.D.: 1910124-AAH-B

Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
SRES-2-A and SRES-2-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-AAH-B corresponds to SRES-2-A.
Sample ID 1910124-AAH-BX corresponds to SRES-2-B.



Sample Recordkeeping Form

Sample No. 3

Name of Building: A-Building/1st Floor

Location Description: Hallway next to Custodian Rm

Type of Outlet: Indoor Fountain

Sample I.D.: 1910124-AAH-C

Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
SRES-3-A and SRES-3-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-AAH-C corresponds to SRES-3-A.
Sample ID 1910124-AAH-CX corresponds to SRES-3-B.



Sample Recordkeeping Form

Sample No. 4

Name of Building: Playgrpund

Location Description: Next to Storage Bin

Type of Outlet: Outdoor Fountain/Left most Bubbler

Sample I.D.: 1910124-AAH-D

Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

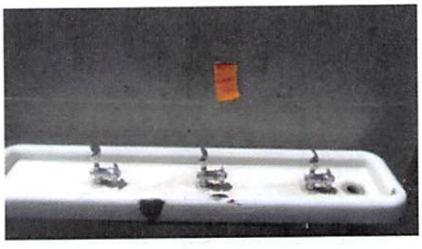
(circle collector type) Water System Operator (Water System Representative)

Contractor

Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
SRES-4-A and SRES-4-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-AAH-D corresponds to SRES-4-A.
Sample ID 1910124-AAH-DX corresponds to SRES-4-B.



Sample Recordkeeping Form

Sample No. 5

Name of Building: Auditorium

Location Description: Hallway outside of Auditorium

Type of Outlet: Indoor Fountain

Sample I.D.: 1910124-AAH-E

Each Sample I.D. should use the following format: <Water System No.>-<School ID>-<Sample ID> i.e. 1710001-005-1.

(circle sample type) (Initial) 1st Follow-up 2nd Follow-up

Post-corrective action

Date & Time Last Used: _____

Date Sample Collected: _____

Time Sample Collected: _____

Name of Sample Collector: _____

(circle collector type) Water System Operator (Water System Representative)

Contractor

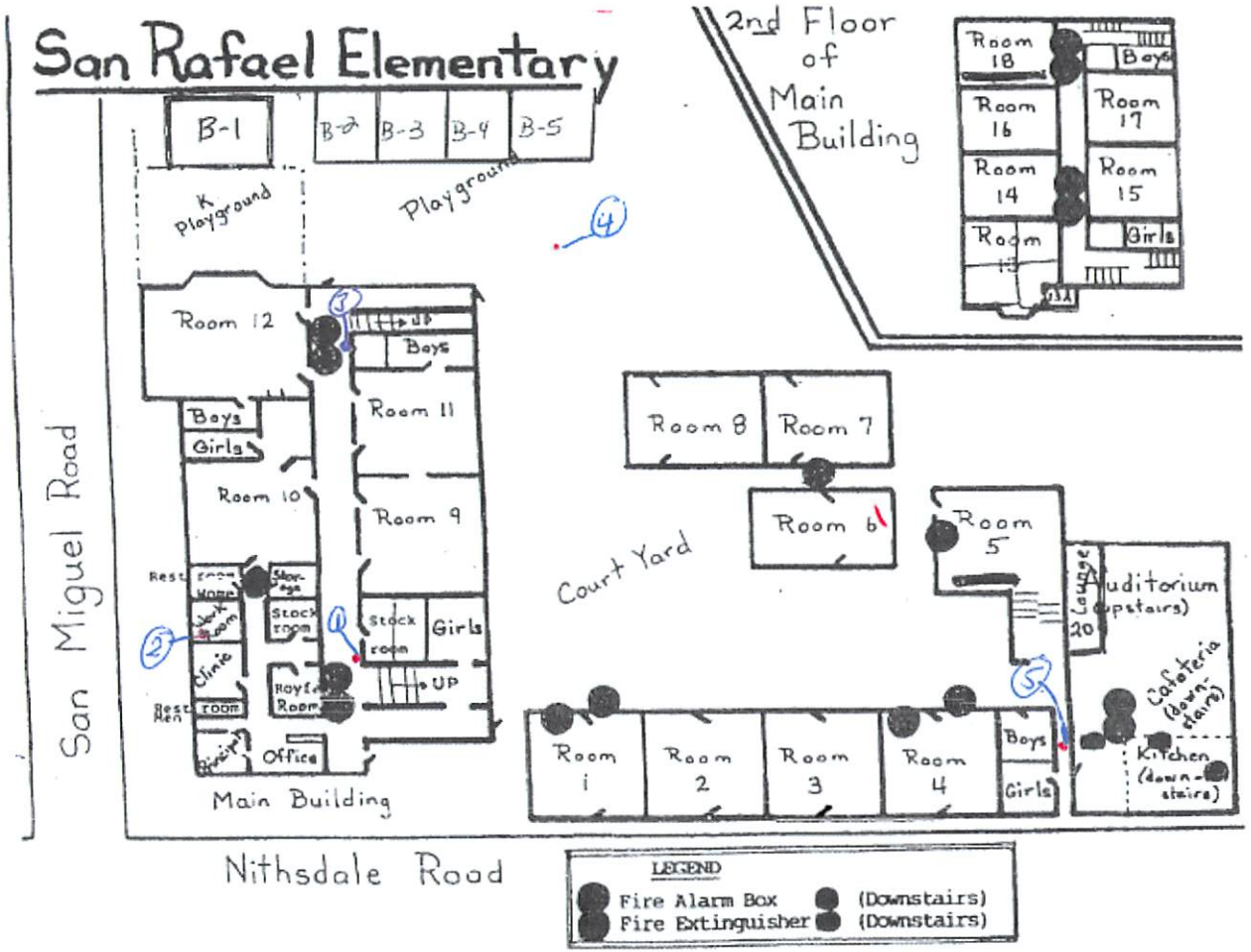
Lead Concentration (ppb): _____

NOTES:

Two initial samples were collected
SRES-5-A and SRES-5-B on the same day.
A was collected first and immediately after, B was collected. No water flushed between samples.
Sample ID 1910124-AAH-E corresponds to SRES-5-A.
Sample ID 1910124-AAH-EX corresponds to SRES-5-B.



Sample Location Map



98) San Rafael Fire Safety Map

SCHOOL NAME: SAN RAFAEL ELEM

SAMPLE #1



SAMPLE#2



SAMPLE# 3



SAMPLE# 4



SAMPLE# 5

