

Technical Report for

Arizona Dept. of Environmental Quality

School District, Lead in Drinking Water Testing

Sundance Elementary/Buckeye Elementary District

SGS Accutest Job Number: LA31003

Sampling Date: 03/01/17

Report to:

Arizona Dept. of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007
db2@azdeq.gov; vs3@azdeq.gov;
machiche.ana@azdeq.gov; diaz.stephanie@azdeq.gov;
ATTN: David Burchard

Total number of pages in report: 18



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Ron Benjamin
Ron Benjamin
Lab Director

Client Service contact: Anita Patel 337-237-4775

Certifications: LDEQ(2048), LDHH(LA150012), AR(14-045-04), AZ(AZ0805), FL(E87657), IL(200082), KY(#31),
NC(487), SC(73004001), NJ(LA007), TX(T104704186-15-7), WV(257)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Summary of Hits 4

Section 3: Sample Results 5

3.1: LA31003-1: MAIN BLDG 1001 DRINKING FOUNTAIN NEXT TO GYM MAIN

 CORRIDOR 6

3.2: LA31003-2: MODULER 1002 SINK G109 7

Section 4: Misc. Forms 8

4.1: Chain of Custody 9

Section 5: Metals Analysis - QC Data Summaries 13

5.1: Prep QC MP6944: Pb 14



Sample Summary

Arizona Dept. of Environmental Quality

Job No: LA31003

School District, Lead in Drinking Water Testing
Project No: Sundance Elementary/Buckeye Elementary District

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
LA31003-1	03/01/17	05:40	03/03/17	DW	Drinking Water	MAIN BLDG 1001 DRINKING FOUNTAIN NEXT TO GYM MAIN CORRIDOR
LA31003-2	03/01/17	05:47 LD	03/03/17	DW	Drinking Water	MODULER 1002 SINK G109

Summary of Hits

Job Number: LA31003
Account: Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing
Collected: 03/01/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

LA31003-1 MAIN BLDG 1001 DRINKING FOUNTAIN NEXT TO GYM MAIN CORRIDOR

No hits reported in this sample.

LA31003-2 MODULER 1002 SINK G109

No hits reported in this sample.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MAIN BLDG 1001 DRINKING FOUNTAIN NEXT TO GYM MAIN CORRIDOR					Date Sampled:	03/01/17
Lab Sample ID:	LA31003-1					Date Received:	03/03/17
Matrix:	DW - Drinking Water					Percent Solids:	n/a
Project:	School District, Lead in Drinking Water Testing						

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	ND	15	1.0	ug/l	1	03/06/17	03/06/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA6734
(2) Prep QC Batch: MP6944

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)

ND = Not detected

Report of Analysis

Client Sample ID:	MODULER 1002 SINK G109			Date Sampled:	03/01/17
Lab Sample ID:	LA31003-2			Date Received:	03/03/17
Matrix:	DW - Drinking Water			Percent Solids:	n/a
Project:	School District, Lead in Drinking Water Testing				

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	ND	15	1.0	ug/l	1	03/06/17	03/06/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA6734
(2) Prep QC Batch: MP6944

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)

ND = Not detected

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Sample Collection Record

To be completed by the sample collector

LA 31003

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

- ☐ Check this box to confirm that water had not been used at this tap or other taps in the area for 6 hours and no flushing was done prior to sampling

Name of School-District	Buckeye Elementary District
Name of School	Sundance Elementary
Building (name/number)	Main Building - 1001
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	Next to Gym Main Corridor
Sample Identification Number (ensure this number is also on the sample container)	1
Date of Collection	3.1.17
Time of Collection	5:40 am
Name of Sample Collector	Water Drinking
Signature Sample Collector	June 10

Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	
Signature	
Notes:	

For relinquishing samples upon delivery to labs only

Relinquished date and signature

These samples are collected and are to be analyzed for screening purposes only and cannot be used for compliance.

Rec' FedEx Rel' FedEx 3-3-17 9:30
LA Drive LA Drive
Mark Red 3-3-17 10:30
Tep: 18:40V418 3W2

LA31003: Chain of Custody

Page 1 of 4

Sample Collection Record

To be completed by the sample collector

LA 31003

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

- ☐ Check this box to confirm that water had not been used at this tap or other taps in the area for 6 hours and no flushing was done prior to sampling

Name of School District	Buckeye Elementary District
Name of School	Sundance Elementary
Building (name/number)	Modular - 1002
Type of Fixture (tap, drinking fountain etc.)	Sink
Location of Fixture (example, room number)	6109
Sample Identification Number (ensure this number is also on the sample container)	1
Date of Collection	3-1-17
Time of Collection	5:47 am
Name of Sample Collector	Leah Dunning
Signature Sample Collector	Leah Dunning

Notes Sample collector:

Because there is no drinking fountain at the modular classrooms, I think teachers are using the sink towards the drinking water.

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	
Signature	
Notes:	

For relinquishing samples upon delivery to labs only

Relinquished date and signature

3/2/17 1405

These samples are collected and are to be analyzed for screening purposes only and cannot be used for compliance.

3/2/17 1700 Fed-Ex

Rec' Fed-Ex

Rec' Fed-Ex 3-3-17 9:30

LA Driver

LA Driver 3/2

Mark Red 3-3-17 10:30

CS600

Temp: 18.4 M/L/18

LA31003: Chain of Custody

Page 2 of 4

STIR: 04112, 04111, 11
ACTW: 04112, 04111, 11
CAD: 10465527/NET3850

UNION ILLINOIS (404) 213-0531
BETH PROFFIT
ACCUTEST SERVICE CENTER
1745 UNIVERSITY DR.
STATE LA
TEMP: AZ 85281
UNITED STATES US

BILL RECIPIENT

TO

HOLD AT FEDEX- SAMPLES
ACCUTEST LABORATORIES-LAFAYETTE, LA
109 COMMISSION BLVD

LAFAYETTE LA 70508
REF: ACQLEAD
9371 231 4775
NO
DEPT



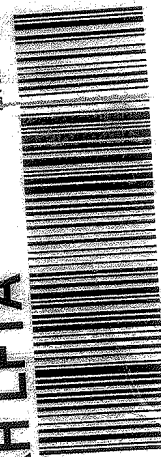
FRI - 03 MAR HOLD
PRIORITY OVERNIGHT

TRK# 7785 6095 0509

0201

XH LFTA

HLD
LFTA
LFT
LA-US



DATE/

1-250nd Wap 3w2

1
1
1

SGS Accutest Sample Receipt Summary

Job Number: LA31003

Client: A- DEQ

Project: SUNDANCE

Date / Time Received: 3/3/2017 10:30:00 AM

Delivery Method: FedEx

Airbill #s: 778560950509

Cooler Temps (Initial/Adjusted): #1: (18.4/18.4);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: No Ice
4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☐ ☒
2. Trip Blank listed on COC: ☐ ☐ ☒
3. Samples preserved properly: ☐ ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

sample was preserved upon receipt

LA31003: Chain of Custody

Page 4 of 4

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA31003
Account: ADEQAZP - Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP6944
Matrix Type: DRINKING WATER

Methods: EPA 200.8
Units: mg/l

Prep Date: 03/06/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.050	.024	.013		
Antimony	0.0050	.00082	.00081		
Arsenic	0.0040	.000039	.00028		
Barium	0.0050	.000076	.00032		
Beryllium	0.0020	.000015	.000067		
Boron	0.020	.0012	.0025		
Cadmium	0.0020	.000022	.00033		
Calcium	0.20	.013	.028		
Chromium	0.0040	.00012	.0002		
Cobalt	0.0020	.000014	.00011		
Copper	0.0020	.000078	.00025		
Iron	0.10	.0055	.011		
Lithium	0.0020	.000051	.0001		
Lead	0.0010	.000022	.00013	0.000031	<0.0010
Magnesium	0.050	.0057	.0052		
Manganese	0.0020	.000045	.00022		
Molybdenum	0.0020	.00015	.00044		
Nickel	0.0020	.000055	.00016		
Potassium	0.075	.017	.0091		
Selenium	0.0050	.00053	.00069		
Silver	0.0010	.00045	.00046		
Sodium	0.10	.035	.031		
Strontium	0.0010	.000026	.00013		
Thallium	0.0020	.000091	.00039		
Tin	0.0040	.00014	.00063		
Titanium	0.0020	.00033	.0008		
Uranium	0.0010		.000081		
Vanadium	0.010	.000046	.00028		
Zinc	0.0060	.0067	.0051		

Associated samples MP6944: LA31003-1, LA31003-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA31003
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP6944
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 03/06/17

Metal	LA31002-1 Original MS		Spikelot MPICPMS5 % Rec		QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lithium					
Lead	0.00017	0.094	0.10	93.8	70-130
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP6944: LA31003-1, LA31003-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA31003
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP6944
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 03/06/17

Metal	LA31002-1 Original MSD	Spikelot MPICPMS5 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Lead	0.00017	0.095	0.10	94.8
			1.1	20
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP6944: LA31003-1, LA31003-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA31003
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP6944
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: mg/l

Prep Date: 03/06/17

Metal	BSP Result	Spikelot MPICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Lead	0.10	0.10	100.0	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP6944: LA31003-1, LA31003-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA31003
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP6944
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 03/06/17

Metal	LA31002-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Lead	0.168	0.230	36.5 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP6944: LA31003-1, LA31003-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).