

Technical Report for

Arizona Dept. of Environmental Quality
School District, Lead in Drinking Water Testing
Porter Elementary School/Mesa Unified District
SGS Accutest Job Number: LA32783

Sampling Date: 04/20/17

Report to:

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

Total number of pages in report: 26



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)

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Test results relate only to samples analyzed.

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Sample Summary

Arizona Dept. of Environmental Quality

Job No: LA32783

School District, Lead in Drinking Water Testing
Project No: Porter Elementary School/Mesa Unified District

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
LA32783-1	04/20/17	05:50 TH	04/25/17	DW	Drinking Water	1001-1
LA32783-2	04/20/17	06:20 TH	04/25/17	DW	Drinking Water	1002-1
LA32783-3	04/20/17	06:15 TH	04/25/17	DW	Drinking Water	1003-1

Summary of Hits

Job Number: LA32783
Account: Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing
Collected: 04/20/17

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

LA32783-1 1001-1

No hits reported in this sample.

LA32783-2 1002-1

Lead	8.5	1.0	ug/l	EPA 200.8
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LA32783-3 1003-1

Lead	1.1	1.0	ug/l	EPA 200.8
------	-----	-----	------	-----------



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1001-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32783-1	Date Received:	04/25/17
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	05/04/17	05/06/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7585
(2) Prep QC Batch: MP7773

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

ND = Not detected

Report of Analysis

Client Sample ID:	1002-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32783-2	Date Received:	04/25/17
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	8.5	15	1.0	ug/l	1	05/04/17	05/06/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7585
(2) Prep QC Batch: MP7773

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

ND = Not detected

Report of Analysis

Client Sample ID:	1003-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32783-3	Date Received:	04/25/17
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	1.1	15	1.0	ug/l	1	05/04/17	05/06/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7585
(2) Prep QC Batch: MP7774

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

LA 32783

District	School	Building No	Building Desc	Building Use	Year Built	Number of Bottles Per Building
1 Mesa Unified District	Porter Elementary School	1001	A1000	Admin/MPR/Class	1991	1
2 Mesa Unified District	Porter Elementary School	1002	A2000 / R-513	Classroom	1995	1
3 Mesa Unified District	Porter Elementary School	1003	A3000 / R-485	Classroom	1995	1
Address:	1350 S Lindsay, Mesa, AZ 85204				Number of Bottles Per Kit:	3

1-250 ml n/p 3wz

$$\frac{3}{1+1}$$

22.4 oz 260

LA32783: Chain of Custody

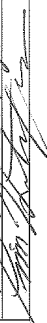
Page 1 of 6

Collection Log

for experienced sample collectors

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	Mesa Unified District
School Name	Porter Elementary School
Building (name/number)	Admin/MPR/Class
Type of Fixture (tap, drinking fountain etc.)	drinking fountain
Location of Fixture (example, room number)	Hallway by lounge.
Sample Identification Number (Write this number on the sample container and on this sheet)	1001 - 1
Date of Collection	4-20-17
Time of Collection	5:50 am
Printed Name of Sample Collector	Tim Honeyschlager
Signature Sample Collector	

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 were collected for lead screening purposes only and cannot be used for compliance.

LA 32783

ADEQ Public School Drinking Water Lead Screening Program
Sampling Plan & Collection Log

Collection Log

for experienced sample collectors

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	Mesa Unified District
School Name	Porter Elementary School
Building (name/number)	Portable #35
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	Room 35
Sample Identification Number (Write this number on the sample container and on this sheet)	1002-1
Date of Collection	4-20-17
Time of Collection	6:20am
Printed Name of Sample Collector	Tim Hagetechler
Signature Sample Collector	

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 were collected for lead screening purposes only and cannot be used for compliance.

Collection Log

for experienced sample collectors

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

Mesa Unified District	
Porter Elementary School	
Building (name/number)	Portable room 33
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	Room 33
Sample Identification Number (Write this number on the sample container and on this sheet)	1003-1
Date of Collection	4-20-17
Time of Collection	6:15am
Printed Name of Sample Collector	Tina Hartschlager
Signature Sample Collector	<i>Tina Hartschlager</i>

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

Rec: [Signature] 4/24/17 8:10

These samples were collected for lead screening purposes only and cannot be used for compliance.

Rec: Dedex

Rec: Dedex

Rec: Dedex

Rec: Raylegua

Rel: Dedex 4-25-17 9:30

Rel: Dedex 4-25-17 10:00

Rel: Dedex 4-25-17 10:00

Rel: Dedex 4-25-17 10:00

<http://www.azdeq.gov/LeadScreeningProg>

UNIVERSITY OF ARIZONA
 BETHPROFIT
 ACCUTEST SERVICE CENTER
 ACCUTEST UNIVERSITY DR.
 SUITE 148
 TEMPE, AZ 85281
 UNITED STATES US

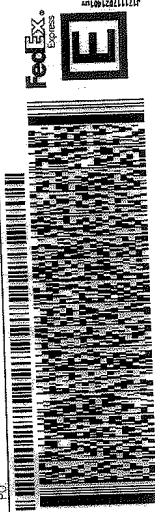
NET WT. 45.00 LB
 ACT WT. 45.00 LB
 CAC: 10468552/INE13850

BILL RECIPIENT

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

LAFAYETTE LA 70508
 (337) 237-4775
 NV
 PO

REF: ADEQ PROJECT
 DEPT.



1 of 3
 TRK# 7789 7949 9310
 [030]
 ## MASTER ##
 XH LFTA
 LA-US
 70508
 LFT

TUE - 25 APR HOLD
 PRIORITY OVERNIGHT
 HLD



FRAGILE
HANDLE

SGS Accutest Sample Receipt Summary

Job Number: LA32783

Client: ADEQ

Project: PORTER ELEMENTARY

Date / Time Received: 4/25/2017 10:00:00 AM

Delivery Method: FedEx

Airbill #s: 778979499310

Cooler Temps (Initial/Adjusted): #1: (22.4/22.4):

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	<input type="checkbox"/>		<input type="checkbox"/>
2. Thermometer ID:	DV260;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

LA32783: Chain of Custody

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Metals Analysis

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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: LA32783
Account: ADEQAZP - Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7773
Matrix Type: DRINKING WATER

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/04/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	40	48	26		
Antimony	10	1.6	1.6		
Barium	10	.15	.64		
Beryllium	1.0	.03	.13		
Boron	40	2.3	5		
Calcium	400	27	57		
Lithium	4.0	.1	.21		
Lead	1.0	.045	.26	-0.31	<1.0
Molybdenum	4.0	.3	.87		
Potassium	200	34	18		
Uranium	2.0		.16		

Associated samples MP7773: LA32783-1, LA32783-2

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: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7773
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32782-7 Original MS	Spikelot MPICPMS5 % Rec	QC Limits
Aluminum			
Antimony			
Barium			
Beryllium			
Boron			
Calcium			
Lithium			
Lead	2.9 193	200 95.1	70-130
Molybdenum			
Potassium			
Uranium			

Associated samples MP7773: LA32783-1, LA32783-2

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: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7773
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32782-7 Original MSD	Spikelot MPICPMS5 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	2.9	202	200	99.6
			4.6	20
Molybdenum				
Potassium				
Uranium				

Associated samples MP7773: LA32783-1, LA32783-2

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: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7773
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	BSP Result	Spikelot MPICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	187	200	93.5	85-115
Molybdenum				
Potassium				
Uranium				

Associated samples MP7773: LA32783-1, LA32783-2

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

5.1.3

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SERIAL DILUTION RESULTS SUMMARY

Login Number: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7773
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32782-7 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	1.43	0.724	49.5*(a)	0-10
Molybdenum				
Potassium				
Uranium				

Associated samples MP7773: LA32783-1, LA32783-2

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.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA32783
Account: ADEQAZP - Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7774
Matrix Type: DRINKING WATER

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/04/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	40	48	26		
Antimony	10	1.6	1.6		
Barium	10	.15	.64		
Beryllium	1.0	.03	.13		
Boron	40	2.3	5		
Calcium	400	27	57		
Lithium	4.0	.1	.21		
Lead	1.0	.045	.26	-0.31	<1.0
Molybdenum	4.0	.3	.87		
Potassium	200	34	18		
Uranium	2.0		.16		

Associated samples MP7774: LA32783-3

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: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7774
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32783-3 Original MS		Spikelot MPICPMS5 % Rec		QC Limits
Aluminum					
Antimony					
Barium					
Beryllium					
Boron					
Calcium					
Lithium					
Lead	1.1	189	200	94.0	70-130
Molybdenum					
Potassium					
Uranium					

Associated samples MP7774: LA32783-3

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: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7774
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32783-3 Original MSD	Spikelot MPICPMS5 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	1.1	194	200	96.5
			2.6	20
Molybdenum				
Potassium				
Uranium				

Associated samples MP7774: LA32783-3

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: LA32783

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

QC Batch ID: MP7774

Methods: EPA 200.8

Matrix Type: DRINKING WATER

Units: ug/l

Prep Date:

05/04/17

Metal	BSP Result	Spikelot MPICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	189	200	94.5	85-115
Molybdenum				
Potassium				
Uranium				

Associated samples MP7774: LA32783-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA32783
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7774
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32783-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	0.537	0.00	100.0(a)	0-10
Molybdenum				
Potassium				
Uranium				

Associated samples MP7774: LA32783-3

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).