

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Phoenix

4625 East Cotton Ctr Blvd

Suite 189

Phoenix, AZ 85040

Tel: (602)437-3340

TestAmerica Job ID: 550-77810-1

TestAmerica Sample Delivery Group: Centennial Middle School

Client Project/Site: Pb in DW/Crane Elementary District

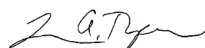
For:

Arizona Dept of Environmental Quality

1110 W. Washington St., MC5415B-1

Phoenix, Arizona 85007

Attn: David A Burchard



Authorized for release by:

2/28/2017 10:14:25 AM

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Designee for

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LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Job ID: 550-77810-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative 550-77810-1

Comments

No additional comments.

Receipt

The samples were received on 2/17/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 19.8° C.

Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: Cent-1 (550-77810-1), Cent-2 (550-77810-2) and Cent-3 (550-77810-3). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-77810-1	Cent-1	Drinking Water	02/15/17 06:28	02/17/17 10:00
550-77810-2	Cent-2	Drinking Water	02/15/17 06:33	02/17/17 10:00
550-77810-3	Cent-3	Drinking Water	02/15/17 06:30	02/17/17 10:00

Detection Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Client Sample ID: Cent-1

Lab Sample ID: 550-77810-1

☐ No Detections.

Client Sample ID: Cent-2

Lab Sample ID: 550-77810-2

☐ No Detections.

Client Sample ID: Cent-3

Lab Sample ID: 550-77810-3

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Phoenix

Client Sample Results

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Client Sample ID: Cent-1

Date Collected: 02/15/17 06:28

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-1

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/20/17 16:50	02/25/17 12:44	1

Client Sample ID: Cent-2

Date Collected: 02/15/17 06:33

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-2

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/20/17 16:50	02/25/17 12:46	1

Client Sample ID: Cent-3

Date Collected: 02/15/17 06:30

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-3

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/20/17 16:50	02/25/17 12:48	1

QC Sample Results

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-110580/1-A

Matrix: Water

Analysis Batch: 111077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110580

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/20/17 16:50	02/25/17 12:17	1

Lab Sample ID: LCS 550-110580/4-A

Matrix: Water

Analysis Batch: 111077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	100	93.2		ppb		93	85 - 115

Lab Sample ID: LCSD 550-110580/5-A

Matrix: Water

Analysis Batch: 111077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	100	92.4		ppb		92	85 - 115	1	20

Lab Sample ID: 550-77806-A-1-B MS

Matrix: Water

Analysis Batch: 111077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		100	86.0		ppb		86	70 - 130

Lab Sample ID: 550-77806-A-1-C MSD

Matrix: Water

Analysis Batch: 111077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	ND		100	85.5		ppb		86	70 - 130	1	20

QC Association Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Metals

Prep Batch: 110580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77810-1	Cent-1	Total/NA	Drinking Water	200.8	
550-77810-2	Cent-2	Total/NA	Drinking Water	200.8	
550-77810-3	Cent-3	Total/NA	Drinking Water	200.8	
MB 550-110580/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-110580/4-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-110580/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-77806-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	
550-77806-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 111077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77810-1	Cent-1	Total/NA	Drinking Water	200.8	110580
550-77810-2	Cent-2	Total/NA	Drinking Water	200.8	110580
550-77810-3	Cent-3	Total/NA	Drinking Water	200.8	110580
MB 550-110580/1-A	Method Blank	Total/NA	Water	200.8	110580
LCS 550-110580/4-A	Lab Control Sample	Total/NA	Water	200.8	110580
LCSD 550-110580/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	110580
550-77806-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	110580
550-77806-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	110580

Lab Chronicle

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Client Sample ID: Cent-1

Date Collected: 02/15/17 06:28

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110580	02/20/17 16:50	EXZ	TAL PHX
Total/NA	Analysis	200.8		1	111077	02/25/17 12:44	TEK	TAL PHX

Client Sample ID: Cent-2

Date Collected: 02/15/17 06:33

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110580	02/20/17 16:50	EXZ	TAL PHX
Total/NA	Analysis	200.8		1	111077	02/25/17 12:46	TEK	TAL PHX

Client Sample ID: Cent-3

Date Collected: 02/15/17 06:30

Date Received: 02/17/17 10:00

Lab Sample ID: 550-77810-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110580	02/20/17 16:50	EXZ	TAL PHX
Total/NA	Analysis	200.8		1	111077	02/25/17 12:48	TEK	TAL PHX

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Certification Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Laboratory: TestAmerica Phoenix

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0728	06-09-17

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Crane Elementary District

TestAmerica Job ID: 550-77810-1
SDG: Centennial Middle School

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

778/0

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	Crane
School Name	Centennial
Building (name/number)	Cafeteria
Type of Fixture (tap, drinking fountain etc.)	Sinks
Location of Fixture (example, room number)	Kitchen
Sample Identification Number (ensure this number is also on the sample container)	CENT-1
Date of Collection	2/15/17
Time of Collection	6:28
Printed Name of Sample Collector	Pablo Salcedo
Signature Sample Collector	Pablo C. Salcedo

Notes Sample collector:

550-77810 Chain of Custody



For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	2-17-17
Signature	[Signature]
Notes:	19.8°C FE or NO ZCE

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.

①

Collection Log

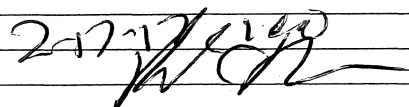
for experienced sample collectors

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	Crane
School Name	Centennial
Building (name/number)	200
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	outside 200's
Sample Identification Number (ensure this number is also on the sample container)	CENT-2
Date of Collection	2/15/17
Time of Collection	6:33
Printed Name of Sample Collector	Pablo Salcedo
Signature Sample Collector	Pablo C. Salcedo

Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	2/17/17
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.

(2)

Collection Log

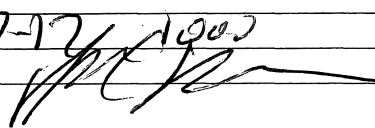
for experienced sample collectors

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	Crane
School Name	Centennial
Building (name/number)	Nurses
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	nurses office
Sample Identification Number (ensure this number is also on the sample container)	CENT-3
Date of Collection	2/15/17
Time of Collection	6:30
Printed Name of Sample Collector	Pablo Salcedo
Signature Sample Collector	Pablo C. Salcedo

Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	2-17-17 1:00
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.

③

Bottle Order Information

Bottle Order: Lead in Drinking Water
 Bottle Order #: 9385
 Request From Client: 1/31/2017
 Date Order Posted: 1/31/2017 3:12:10PM
 Order Status: Ready To Process
 Prepared By: Amanda Barkley
 Deliver By Date: 2/7/2017 11:59:00PM
 Lab Project Number: 55009093

Order Completion Information

Creator: Amanda Barkley
 Filled by:
 Sent Date: 2-3-17
 Sent Via: [Signature]
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
3	1	3	Plastic 250ml - unpreserved	None	200.8 - Lead	Water	Normal		620317

Notes to Field Staff:

Health and Safety Notes:
 Preservative Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:

Please notify us immediately if an error is found in shipment

Crane Elementary District	Centennial Middle School	1001	New Building	Classrooms	2000	2650 West 20th Street	Yuma	85364	Yuma	1
Crane Elementary District	Centennial Middle School	1002	600 Wing	Classrooms	2007	2650 West 20th Street	Yuma	85364	Yuma	1
Crane Elementary District	Centennial Middle School	1003	Gym	Gymnasium	2007	2650 West 20th Street	Yuma	85364	Yuma	1
Total Containers										3

Crane Elementary District

ATTN: Fred Verdugo

900 S. Avenue C

Yuma, AZ 85364

(928) 373-3490

Login Sample Receipt Checklist

Client: Arizona Dept of Environmental Quality

Job Number: 550-77810-1
SDG Number: Centennial Middle School

Login Number: 77810

List Number: 1

Creator: Vilaboy, Monica

List Source: TestAmerica Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.