

# 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: 550-79648-1

TestAmerica SDG: Huachuca Mountain Elementary School

Client Project/Site: Pb in DW/Sierra Vista Public School Dist

For:

Arizona Dept of Environmental Quality

1110 W. Washington St., MC5415B-1

Phoenix, Arizona 85007

Attn: David A Burchard



Authorized for release by:

4/3/2017 9:58:54 PM

Susan Armijo, Project Manager II

(602)659-7664

[susan.armijo@testamericainc.com](mailto:susan.armijo@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://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/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
SDG: Huachuca Mountain Elementary School

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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)

# Sample Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
SDG: Huachuca Mountain Elementary School

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-79648-1	HM-1	Drinking Water	03/16/17 11:00	03/22/17 10:00
550-79648-2	HM-2	Drinking Water	03/16/17 11:00	03/22/17 10:00
550-79648-3	HM-3	Drinking Water	03/16/17 11:00	03/22/17 10:00
550-79648-4	HM-4	Drinking Water	03/16/17 11:00	03/22/17 10:00

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# Detection Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
SDG: Huachuca Mountain Elementary School

## Client Sample ID: HM-1

Lab Sample ID: 550-79648-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.7		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: HM-2

Lab Sample ID: 550-79648-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.0		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: HM-3

Lab Sample ID: 550-79648-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.0		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: HM-4

Lab Sample ID: 550-79648-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.7		0.50	ppb	1		200.8	Total/NA

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/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
 SDG: Huachuca Mountain Elementary School

**Client Sample ID: HM-1**  
 Date Collected: 03/16/17 11:00  
 Date Received: 03/22/17 10:00

**Lab Sample ID: 550-79648-1**  
 Matrix: Drinking Water

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.7		0.50	ppb		03/28/17 10:35	03/31/17 20:03	1

**Client Sample ID: HM-2**  
 Date Collected: 03/16/17 11:00  
 Date Received: 03/22/17 10:00

**Lab Sample ID: 550-79648-2**  
 Matrix: Drinking Water

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0		0.50	ppb		03/28/17 10:35	03/31/17 20:24	1

**Client Sample ID: HM-3**  
 Date Collected: 03/16/17 11:00  
 Date Received: 03/22/17 10:00

**Lab Sample ID: 550-79648-3**  
 Matrix: Drinking Water

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.0		0.50	ppb		03/28/17 10:35	03/31/17 20:22	1

**Client Sample ID: HM-4**  
 Date Collected: 03/16/17 11:00  
 Date Received: 03/22/17 10:00

**Lab Sample ID: 550-79648-4**  
 Matrix: Drinking Water

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.7		0.50	ppb		03/28/17 10:35	03/31/17 20:20	1

# QC Sample Results

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
 SDG: Huachuca Mountain Elementary School

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 550-113422/1-A**  
**Matrix: Water**  
**Analysis Batch: 113813**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 113422**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		03/28/17 10:35	03/31/17 19:53	1

**Lab Sample ID: LCS 550-113422/4-A**  
**Matrix: Water**  
**Analysis Batch: 113813**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 113422**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	100	105		ppb		105	85 - 115

**Lab Sample ID: LCSD 550-113422/5-A**  
**Matrix: Water**  
**Analysis Batch: 113813**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 113422**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	100	104		ppb		104	85 - 115	1	20

**Lab Sample ID: 550-79648-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 113813**

**Client Sample ID: HM-1**  
**Prep Type: Total/NA**  
**Prep Batch: 113422**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.7		100	102		ppb		100	70 - 130

**Lab Sample ID: 550-79648-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 113813**

**Client Sample ID: HM-1**  
**Prep Type: Total/NA**  
**Prep Batch: 113422**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.7		100	103		ppb		101	70 - 130	1	20

# QC Association Summary

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
 SDG: Huachuca Mountain Elementary School

## Metals

### Prep Batch: 113422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-79648-1	HM-1	Total/NA	Drinking Water	200.8	
550-79648-2	HM-2	Total/NA	Drinking Water	200.8	
550-79648-3	HM-3	Total/NA	Drinking Water	200.8	
550-79648-4	HM-4	Total/NA	Drinking Water	200.8	
MB 550-113422/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-113422/4-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-113422/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-79648-1 MS	HM-1	Total/NA	Drinking Water	200.8	
550-79648-1 MSD	HM-1	Total/NA	Drinking Water	200.8	

### Analysis Batch: 113813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-79648-1	HM-1	Total/NA	Drinking Water	200.8	113422
550-79648-2	HM-2	Total/NA	Drinking Water	200.8	113422
550-79648-3	HM-3	Total/NA	Drinking Water	200.8	113422
550-79648-4	HM-4	Total/NA	Drinking Water	200.8	113422
MB 550-113422/1-A	Method Blank	Total/NA	Water	200.8	113422
LCS 550-113422/4-A	Lab Control Sample	Total/NA	Water	200.8	113422
LCSD 550-113422/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	113422
550-79648-1 MS	HM-1	Total/NA	Drinking Water	200.8	113422
550-79648-1 MSD	HM-1	Total/NA	Drinking Water	200.8	113422

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
 SDG: Huachuca Mountain Elementary School

**Client Sample ID: HM-1**

**Lab Sample ID: 550-79648-1**

Date Collected: 03/16/17 11:00

Matrix: Drinking Water

Date Received: 03/22/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			113422	03/28/17 10:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	113813	03/31/17 20:03	TEK	TAL PHX

**Client Sample ID: HM-2**

**Lab Sample ID: 550-79648-2**

Date Collected: 03/16/17 11:00

Matrix: Drinking Water

Date Received: 03/22/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			113422	03/28/17 10:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	113813	03/31/17 20:24	TEK	TAL PHX

**Client Sample ID: HM-3**

**Lab Sample ID: 550-79648-3**

Date Collected: 03/16/17 11:00

Matrix: Drinking Water

Date Received: 03/22/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			113422	03/28/17 10:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	113813	03/31/17 20:22	TEK	TAL PHX

**Client Sample ID: HM-4**

**Lab Sample ID: 550-79648-4**

Date Collected: 03/16/17 11:00

Matrix: Drinking Water

Date Received: 03/22/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			113422	03/28/17 10:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	113813	03/31/17 20:20	TEK	TAL PHX

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
SDG: Huachuca Mountain Elementary School

## Laboratory: TestAmerica Phoenix

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

Authority	Program	EPA Region	Identification Number	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/Sierra Vista Public School Dist

TestAmerica Job ID: 550-79648-1  
SDG: Huachuca Mountain Elementary School

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

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**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



79648

**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	Sierra Vista Public Schools
School Name	Huachuca Mountain Elem
Building (name/number)	MAIN
Type of Fixture (tap, drinking fountain etc.)	Fountain
Location of Fixture (example, room number)	N-S-HALLWAY
Sample Identification Number ( <b>Write this number on the sample container and on this sheet</b> )	HM-1
Date of Collection	3-16-17
Time of Collection	1100 AM
Printed Name of Sample Collector	Daniel Shaul
Signature Sample Collector	<i>Daniel Shaul</i>

550-79648 Chain of Custody



Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	3-22-17 1100
Signature	<i>[Signature]</i>
Notes:	24.7°C NO ZOC FE Gr

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

Name of School District	Sierra Vista Public Schools
School Name	Huachuca Mountain Elementary
Building (name/number)	Main
Type of Fixture (tap, drinking fountain etc.)	Fountain
Location of Fixture (example, room number)	hallway outside Library
Sample Identification Number ( <b><u>Write this number on the sample container and on this sheet</u></b> )	HM-2
Date of Collection	3-16-17
Time of Collection	1100 AM
Printed Name of Sample Collector	Daniel Shaw
Signature Sample Collector	<i>Daniel Shaw</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 \_\_\_\_\_

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

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### 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	Sierra Vista Public Schools
School Name	Huachuca Mountain Elementary
Building (name/number)	<del>MPRA</del> Building
Type of Fixture (tap, drinking fountain etc.)	Fountain
Location of Fixture (example, room number)	Lunchroom
Sample Identification Number ( <b><u>Write this number on the sample container and on this sheet</u></b> )	HM-3
Date of Collection	3-16-17
Time of Collection	1100 AM
Printed Name of Sample Collector	Daniel Shaw
Signature Sample Collector	<i>Daniel Shaw</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 \_\_\_\_\_

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

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### 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	Sierra Vista Public Schools
School Name	Huachuca Mountain Elementary
Building (name/number)	MPR Bldg.
Type of Fixture (tap, drinking fountain etc.)	Faucet
Location of Fixture (example, room number)	Kitchen
Sample Identification Number ( <b><u>Write this number on the sample container and on this sheet</u></b> )	HM-4
Date of Collection	3-16-17
Time of Collection	11:00 AM
Printed Name of Sample Collector	Daniel Shaw
Signature Sample Collector	<i>Daniel Shaw</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 \_\_\_\_\_

4

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

TestAmerica Phoenix  
4625 East Cotton Ctr Blvd Suite 189  
Phoenix, AZ 85040  
Phone (602) 437-3340 Fax (602) 454-9303



Shipping Order ID: 29711      Ship Via: FedEx Ground      Due On: 3/13/2017 11:59:00PM

**Ship To Information**

Project Manager: Susan Armijo  
Company Name: Sierra Vista Unified District  
Attention: Aftn: Jim Torry  
Address 1: 3555 E. Fry Boulevard  
Address 2: Huachuca Mountain Elementary School  
Address 3:  
City: Sierra Vista  
State: AZ  
Zip: 85635  
Phone #: (520) 515-2777  
Project Ref: Lead in Drinking Water

**Notes to Bottle/Shipping Department**

Ship in one box with return label and box for shipping

- Ready to Fill
- Labels with Bottles
- Preprinted
- Return Shipment Labels
- Seals on Coolers
- Labels on Bottles
- Seals on Bottle
- Number of Return Shipment Labels
- Bottle Sets
- Ice Cooler
- Rebill Freight
- (Prepaid Return)

**Shipping Assets**

Assets	Quantity	Description	Filled
			<input type="checkbox"/>



**Bottle Order Information**

Bottle Order: Lead in Drinking Water  
Bottle Order #: 9708  
Request From Client: 3/6/2017  
Date Order Posted: 3/6/2017 4:40:47PM  
Order Status: Ready To Process  
Prepared By: Amanda Barkley  
Deliver By Date: 3/13/2017 11:59:00PM  
Lab Project Number: 550009093

**Order Completion Information**

Creator: Amanda Barkley  
Filled by:  
Sent Date:  
Sent Via:  
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
4	1	4	Plastic 250ml - unpreserved	None	200.8 - Lead	Water	Normal		

**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 #

Please notify us immediately if an error is found in shipment



## Login Sample Receipt Checklist

Client: Arizona Dept of Environmental Quality

Job Number: 550-79648-1

SDG Number: Huachuca Mountain Elementary School

**Login Number: 79648**

**List Source: TestAmerica Phoenix**

**List Number: 1**

**Creator: Vilaboy, Monica**

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.

