

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Phoenix

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Phoenix, AZ 85040

Tel: (602)437-3340

TestAmerica Job ID: 550-82856-1

TestAmerica Sample Delivery Group: Lake Havasu High School

Client Project/Site: Pb in DW/Lake Havasu Unified District

For:

Arizona Dept of Environmental Quality

1110 W. Washington St., MC5415B-1

Phoenix, Arizona 85007

Attn: David A Burchard



Authorized for release by:

5/23/2017 3:23:11 PM

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*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/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

**Job ID: 550-82856-1**

**Laboratory: TestAmerica Phoenix**

## Narrative

### Job Narrative 550-82856-1

## Comments

No additional comments.

## Receipt

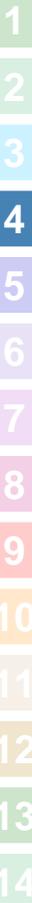
The samples were received on 5/16/2017 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.9° C.

## Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: 1001-1 (550-82856-1), 1002-1 (550-82856-2), 1002-2 (550-82856-3), 1003-1 (550-82856-4), 1003-2 (550-82856-5), 1004-1 (550-82856-6), 1004-2 (550-82856-7), 1005-1 (550-82856-8), 1005-2 (550-82856-9), 1006-1 (550-82856-10), 1007-1 (550-82856-11), 1008-1 (550-82856-12) and 1010-1 (550-82856-13). 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/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-82856-1	1001-1	Drinking Water	05/14/17 05:56	05/16/17 10:45
550-82856-2	1002-1	Drinking Water	05/14/17 06:06	05/16/17 10:45
550-82856-3	1002-2	Drinking Water	05/14/17 06:10	05/16/17 10:45
550-82856-4	1003-1	Drinking Water	05/14/17 06:28	05/16/17 10:45
550-82856-5	1003-2	Drinking Water	05/14/17 06:33	05/16/17 10:45
550-82856-6	1004-1	Drinking Water	05/14/17 07:26	05/16/17 10:45
550-82856-7	1004-2	Drinking Water	05/14/17 07:28	05/16/17 10:45
550-82856-8	1005-1	Drinking Water	05/14/17 07:02	05/16/17 10:45
550-82856-9	1005-2	Drinking Water	05/14/17 07:02	05/16/17 10:45
550-82856-10	1006-1	Drinking Water	05/14/17 06:18	05/16/17 10:45
550-82856-11	1007-1	Drinking Water	05/14/17 06:57	05/16/17 10:45
550-82856-12	1008-1	Drinking Water	05/14/17 06:47	05/16/17 10:45
550-82856-13	1010-1	Drinking Water	05/14/17 07:16	05/16/17 10:45

# Detection Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

## Client Sample ID: 1001-1

## Lab Sample ID: 550-82856-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.66		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1002-1

## Lab Sample ID: 550-82856-2

No Detections.

## Client Sample ID: 1002-2

## Lab Sample ID: 550-82856-3

No Detections.

## Client Sample ID: 1003-1

## Lab Sample ID: 550-82856-4

No Detections.

## Client Sample ID: 1003-2

## Lab Sample ID: 550-82856-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.8		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1004-1

## Lab Sample ID: 550-82856-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.5		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1004-2

## Lab Sample ID: 550-82856-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.69		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1005-1

## Lab Sample ID: 550-82856-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.5		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1005-2

## Lab Sample ID: 550-82856-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.9		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1006-1

## Lab Sample ID: 550-82856-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.77		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1007-1

## Lab Sample ID: 550-82856-11

No Detections.

## Client Sample ID: 1008-1

## Lab Sample ID: 550-82856-12

This Detection Summary does not include radiochemical test results.

TestAmerica Phoenix

# Detection Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

## Client Sample ID: 1008-1 (Continued)

## Lab Sample ID: 550-82856-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.88		0.50	ppb	1		200.8	Total/NA

## Client Sample ID: 1010-1

## Lab Sample ID: 550-82856-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.1		0.50	ppb	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Phoenix

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# Client Sample Results

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
 SDG: Lake Havasu High School

**Client Sample ID: 1001-1**  
 Date Collected: 05/14/17 05:56  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-1**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.66		0.50	ppb		05/18/17 05:35	05/22/17 12:38	1

**Client Sample ID: 1002-1**  
 Date Collected: 05/14/17 06:06  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-2**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:35	05/22/17 12:40	1

**Client Sample ID: 1002-2**  
 Date Collected: 05/14/17 06:10  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-3**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:35	05/22/17 12:46	1

**Client Sample ID: 1003-1**  
 Date Collected: 05/14/17 06:28  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-4**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:35	05/22/17 12:48	1

**Client Sample ID: 1003-2**  
 Date Collected: 05/14/17 06:33  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-5**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.8		0.50	ppb		05/18/17 05:35	05/22/17 12:50	1

**Client Sample ID: 1004-1**  
 Date Collected: 05/14/17 07:26  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-6**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.5		0.50	ppb		05/18/17 05:35	05/22/17 12:51	1

**Client Sample ID: 1004-2**  
 Date Collected: 05/14/17 07:28  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-7**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.69		0.50	ppb		05/18/17 05:35	05/22/17 12:53	1

# Client Sample Results

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
 SDG: Lake Havasu High School

**Client Sample ID: 1005-1**  
 Date Collected: 05/14/17 07:02  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-8**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.5		0.50	ppb		05/18/17 05:35	05/22/17 12:55	1

**Client Sample ID: 1005-2**  
 Date Collected: 05/14/17 07:02  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-9**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.9		0.50	ppb		05/18/17 05:35	05/22/17 12:57	1

**Client Sample ID: 1006-1**  
 Date Collected: 05/14/17 06:18  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-10**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.77		0.50	ppb		05/18/17 05:35	05/22/17 12:59	1

**Client Sample ID: 1007-1**  
 Date Collected: 05/14/17 06:57  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-11**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:35	05/22/17 13:01	1

**Client Sample ID: 1008-1**  
 Date Collected: 05/14/17 06:47  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-12**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.88		0.50	ppb		05/18/17 05:35	05/22/17 13:03	1

**Client Sample ID: 1010-1**  
 Date Collected: 05/14/17 07:16  
 Date Received: 05/16/17 10:45

**Lab Sample ID: 550-82856-13**  
 Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1		0.50	ppb		05/18/17 05:42	05/18/17 12:29	1

# QC Sample Results

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
 SDG: Lake Havasu High School

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

**Lab Sample ID: MB 550-117698/1-A**  
**Matrix: Water**  
**Analysis Batch: 118004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 117698**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:35	05/22/17 12:12	1

**Lab Sample ID: LCS 550-117698/3-A**  
**Matrix: Water**  
**Analysis Batch: 118004**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 117698**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	100	86.8		ppb		87	85 - 115

**Lab Sample ID: LCSD 550-117698/4-A**  
**Matrix: Water**  
**Analysis Batch: 118004**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 117698**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	100	87.2		ppb		87	85 - 115	0	20

**Lab Sample ID: 550-82846-AW-1-I MS**  
**Matrix: Water**  
**Analysis Batch: 118004**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 117698**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	ND		100	81.4		ppb		81	70 - 130

**Lab Sample ID: 550-82846-AW-1-J MSD**  
**Matrix: Water**  
**Analysis Batch: 118004**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 117698**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	ND		100	83.2		ppb		83	70 - 130	2	20

**Lab Sample ID: MB 550-117699/1-A**  
**Matrix: Water**  
**Analysis Batch: 117765**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 117699**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		05/18/17 05:42	05/18/17 12:21	1

**Lab Sample ID: LCS 550-117699/3-A**  
**Matrix: Water**  
**Analysis Batch: 117765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 117699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	100	90.7		ppb		91	85 - 115

**Lab Sample ID: LCSD 550-117699/4-A**  
**Matrix: Water**  
**Analysis Batch: 117765**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 117699**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	100	90.6		ppb		91	85 - 115	0	20

TestAmerica Phoenix

# QC Sample Results

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
 SDG: Lake Havasu High School

**Lab Sample ID: 550-82856-13 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 117765**

**Client Sample ID: 1010-1**  
**Prep Type: Total/NA**  
**Prep Batch: 117699**  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	1.1		100	88.5		ppb		87	70 - 130

**Lab Sample ID: 550-82856-13 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 117765**

**Client Sample ID: 1010-1**  
**Prep Type: Total/NA**  
**Prep Batch: 117699**  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	1.1		100	88.2		ppb		87	70 - 130	0	20

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# QC Association Summary

Client: Arizona Dept of Environmental Quality  
 Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
 SDG: Lake Havasu High School

## Metals

### Prep Batch: 117698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82856-1	1001-1	Total/NA	Drinking Water	200.8	
550-82856-2	1002-1	Total/NA	Drinking Water	200.8	
550-82856-3	1002-2	Total/NA	Drinking Water	200.8	
550-82856-4	1003-1	Total/NA	Drinking Water	200.8	
550-82856-5	1003-2	Total/NA	Drinking Water	200.8	
550-82856-6	1004-1	Total/NA	Drinking Water	200.8	
550-82856-7	1004-2	Total/NA	Drinking Water	200.8	
550-82856-8	1005-1	Total/NA	Drinking Water	200.8	
550-82856-9	1005-2	Total/NA	Drinking Water	200.8	
550-82856-10	1006-1	Total/NA	Drinking Water	200.8	
550-82856-11	1007-1	Total/NA	Drinking Water	200.8	
550-82856-12	1008-1	Total/NA	Drinking Water	200.8	
MB 550-117698/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-117698/3-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-117698/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-82846-AW-1-I MS	Matrix Spike	Total/NA	Water	200.8	
550-82846-AW-1-J MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

### Prep Batch: 117699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82856-13	1010-1	Total/NA	Drinking Water	200.8	
MB 550-117699/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-117699/3-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-117699/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-82856-13 MS	1010-1	Total/NA	Drinking Water	200.8	
550-82856-13 MSD	1010-1	Total/NA	Drinking Water	200.8	

### Analysis Batch: 117765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82856-13	1010-1	Total/NA	Drinking Water	200.8	117699
MB 550-117699/1-A	Method Blank	Total/NA	Water	200.8	117699
LCS 550-117699/3-A	Lab Control Sample	Total/NA	Water	200.8	117699
LCSD 550-117699/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	117699
550-82856-13 MS	1010-1	Total/NA	Drinking Water	200.8	117699
550-82856-13 MSD	1010-1	Total/NA	Drinking Water	200.8	117699

### Analysis Batch: 118004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82856-1	1001-1	Total/NA	Drinking Water	200.8	117698
550-82856-2	1002-1	Total/NA	Drinking Water	200.8	117698
550-82856-3	1002-2	Total/NA	Drinking Water	200.8	117698
550-82856-4	1003-1	Total/NA	Drinking Water	200.8	117698
550-82856-5	1003-2	Total/NA	Drinking Water	200.8	117698
550-82856-6	1004-1	Total/NA	Drinking Water	200.8	117698
550-82856-7	1004-2	Total/NA	Drinking Water	200.8	117698
550-82856-8	1005-1	Total/NA	Drinking Water	200.8	117698
550-82856-9	1005-2	Total/NA	Drinking Water	200.8	117698
550-82856-10	1006-1	Total/NA	Drinking Water	200.8	117698
550-82856-11	1007-1	Total/NA	Drinking Water	200.8	117698
550-82856-12	1008-1	Total/NA	Drinking Water	200.8	117698
MB 550-117698/1-A	Method Blank	Total/NA	Water	200.8	117698

TestAmerica Phoenix

# QC Association Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

## Metals (Continued)

### Analysis Batch: 118004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 550-117698/3-A	Lab Control Sample	Total/NA	Water	200.8	117698
LCSD 550-117698/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	117698
550-82846-AW-1-I MS	Matrix Spike	Total/NA	Water	200.8	117698
550-82846-AW-1-J MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	117698

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# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

## Client Sample ID: 1001-1

Date Collected: 05/14/17 05:56

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:38	TEK	TAL PHX

## Client Sample ID: 1002-1

Date Collected: 05/14/17 06:06

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:40	TEK	TAL PHX

## Client Sample ID: 1002-2

Date Collected: 05/14/17 06:10

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:46	TEK	TAL PHX

## Client Sample ID: 1003-1

Date Collected: 05/14/17 06:28

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:48	TEK	TAL PHX

## Client Sample ID: 1003-2

Date Collected: 05/14/17 06:33

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:50	TEK	TAL PHX

## Client Sample ID: 1004-1

Date Collected: 05/14/17 07:26

Date Received: 05/16/17 10:45

## Lab Sample ID: 550-82856-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:51	TEK	TAL PHX

TestAmerica Phoenix

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

**Client Sample ID: 1004-2**

**Date Collected: 05/14/17 07:28**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-7**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:53	TEK	TAL PHX

**Client Sample ID: 1005-1**

**Date Collected: 05/14/17 07:02**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-8**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:55	TEK	TAL PHX

**Client Sample ID: 1005-2**

**Date Collected: 05/14/17 07:02**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-9**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:57	TEK	TAL PHX

**Client Sample ID: 1006-1**

**Date Collected: 05/14/17 06:18**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-10**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 12:59	TEK	TAL PHX

**Client Sample ID: 1007-1**

**Date Collected: 05/14/17 06:57**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-11**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 13:01	TEK	TAL PHX

**Client Sample ID: 1008-1**

**Date Collected: 05/14/17 06:47**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-12**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117698	05/18/17 05:35	SGO	TAL PHX
Total/NA	Analysis	200.8		1	118004	05/22/17 13:03	TEK	TAL PHX

TestAmerica Phoenix

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High School

**Client Sample ID: 1010-1**

**Date Collected: 05/14/17 07:16**

**Date Received: 05/16/17 10:45**

**Lab Sample ID: 550-82856-13**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			117699	05/18/17 05:42	SGO	TAL PHX
Total/NA	Analysis	200.8		1	117765	05/18/17 12:29	TEK	TAL PHX

**Laboratory References:**

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

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# Accreditation/Certification Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High 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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\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Lake Havasu Unified District

TestAmerica Job ID: 550-82856-1  
SDG: Lake Havasu High 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



82856

### 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	LHUSD
School Name	HL SCHOOL
Building (name/number)	1001
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	CAFETERIA COMMONS
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1001-1
Date of Collection	5-14-17
Time of Collection	5:56 AM
Printed Name of Sample Collector	CHRIS PRONK
Signature Sample Collector	<i>Chris Pronk</i>



Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	5/16/17 10:45
Signature	<i>[Signature]</i>
Notes:	<p>FEG</p> <p>22.9ppb no ice</p>

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	LHUSD
School Name	Hi School
Building (name/number)	1002
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	ACROSS FROM A102
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1002-1
Date of Collection	5-14-17
Time of Collection	6:06
Printed Name of Sample Collector	CHRIS PERRY
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.*

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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	LHUSD
School Name	H1 SCHOOL
Building (name/number)	1002
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	BY COUNSELORS OFFICE
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1002-2
Date of Collection	5-14-17
Time of Collection	6:10 AM
Printed Name of Sample Collector	CYRIS PRANT
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.*

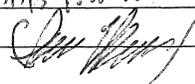
3

### 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	EL PASO
School Name	HI SCHOOL
Building (name/number)	1003
Type of Fixture (tap, <u>drinking fountain</u> , etc.)	
Location of Fixture (example, room number)	HALLWAY (BY 1003)
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1003-1
Date of Collection	5-24-17
Time of Collection	6:28 AM
Printed Name of Sample Collector	CHRIS PRAND
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.*

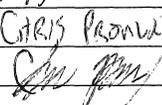


### Collection Log

*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

Name of School District	LITUSO
School Name	HI SCHOOL
Building (name/number)	1003
Type of Fixture (tap) drinking fountain etc.)	SINK
Location of Fixture (example, room number)	LOUNGE SINK
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1003-2
Date of Collection	5-14-17
Time of Collection	8:33
Printed Name of Sample Collector	CHRIS PROWL
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.*

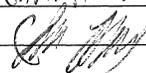
5

### 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	LHMSD
School Name	H1 School
Building (name/number)	1004
Type of Fixture (tap, drinking fountain etc.)	
Location of Fixture (example, room number)	NEAR TO 1107
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1004-1
Date of Collection	5-11-17
Time of Collection	7:26 AM
Printed Name of Sample Collector	CAROL PLOW
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.*

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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	LHUSA
School Name	HI SCHOOL
Building (name/number)	1004
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	ACROSS FROM D105
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1004-2
Date of Collection	7:28
Time of Collection	5-19-17
Printed Name of Sample Collector	CHRIS PRONIA
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

Name of School District	LIVUSD
School Name	HI SCHOOL
Building (name/number)	1005
Type of Fixture (tap, drinking fountain/etc.)	
Location of Fixture (example, room number)	NEAR TO CAFETERIA
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1005-1
Date of Collection	5-19-17
Time of Collection	7:02
Printed Name of Sample Collector	CARIS PERAZA
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.*

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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	LHUSD
School Name	HI SCHOOL
Building (name/number)	1005
Type of Fixture (tap, drinking fountain etc.)	SINK
Location of Fixture (example, room number)	CAREER CENTER
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1005-2
Date of Collection	5-14-17
Time of Collection	7:02
Printed Name of Sample Collector	CHRIS LEON
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.*

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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	UAWSD
School Name	HI SCHOOL
Building (name/number)	E BLDG (1006)
Type of Fixture (tap, drinking fountain etc.)	
Location of Fixture (example, room number)	BREAKROOM SINK
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1006-1
Date of Collection	5-14-17
Time of Collection	6:15 AM
Printed Name of Sample Collector	CHERYL BROWN
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.*

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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	LHMSD
School Name	HS SYMBOL
Building (name/number)	1017
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	ACROSS FROM 5-127
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1007-1
Date of Collection	5-14-17
Time of Collection	6:57 AM
Printed Name of Sample Collector	CHRIS GARDNER
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.*

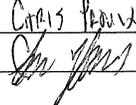


### Collection Log

*for experienced sample collectors*

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- 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	WUSD
School Name	H1 SCHOOL
Building (name/number)	1008
Type of Fixture (tap, <del>drinking fountain</del> etc.)	
Location of Fixture (example, room number)	FRONT ENTRANCE
Sample Identification Number ( <b>Write the number here and on sample container</b> )	1008-1
Date of Collection	5-19-17
Time of Collection	6:47 AM
Printed Name of Sample Collector	CARIS PEREZ
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

Name of School District	DHSO
School Name	Hi School
Building (name/number)	1010
Type of Fixture (tap, <u>drinking fountain</u> etc.)	
Location of Fixture (example, room number)	GYM
Sample Identification Number ( <b><u>Write the number here and on sample container</u></b> )	1010-1
Date of Collection	5-14-17
Time of Collection	7:16 AM
Printed Name of Sample Collector	Chris Lopez
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.*

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## Login Sample Receipt Checklist

Client: Arizona Dept of Environmental Quality

Job Number: 550-82856-1  
SDG Number: Lake Havasu High School

**Login Number: 82856**  
**List Number: 1**  
**Creator: Gravlin, Andrea**

**List Source: TestAmerica Phoenix**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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.

