

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: 550-78814-1

TestAmerica SDG: Tolleson High School/Confirmation Sampling

Client Project/Site: Pb in DW / Tolleson School District

For:

Arizona Dept of Environmental Quality

1110 W. Washington St., MC5415B-1

Phoenix, Arizona 85007

Attn: David A Burchard



Authorized for release by:

3/20/2017 12:47:05 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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Job ID: 550-78814-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative 550-78814-1

Comments

No additional comments.

Receipt

The samples were received on 3/7/2017 3:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.3° C.

Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: ID1 (550-78814-1), ID flush (550-78814-2), ID 2 Lounge (550-78814-3), ID 3 HS Rest (550-78814-4) and ID1,2,3,4 - D-2 Df (550-78814-5). 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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-78814-1	ID1	Drinking Water	03/04/17 07:15	03/07/17 15:38
550-78814-2	ID flush	Drinking Water	03/04/17 07:17	03/07/17 15:38
550-78814-3	ID 2 Lounge	Drinking Water	03/04/17 07:20	03/07/17 15:38
550-78814-4	ID 3 HS Rest	Drinking Water	03/04/17 07:22	03/07/17 15:38
550-78814-5	ID1,2,3,4 - D-2 Df	Drinking Water	03/05/17 07:25	03/07/17 15:38

Detection Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Client Sample ID: ID1

Lab Sample ID: 550-78814-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	57		0.50	ppb	1		200.8	Total/NA

Client Sample ID: ID flush

Lab Sample ID: 550-78814-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	32		0.50	ppb	1		200.8	Total/NA

Client Sample ID: ID 2 Lounge

Lab Sample ID: 550-78814-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	260		0.50	ppb	1		200.8	Total/NA

Client Sample ID: ID 3 HS Rest

Lab Sample ID: 550-78814-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.1		0.50	ppb	1		200.8	Total/NA

Client Sample ID: ID1,2,3,4 - D-2 Df

Lab Sample ID: 550-78814-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	43		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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Client Sample ID: ID1

Date Collected: 03/04/17 07:15

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-1

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57		0.50	ppb		03/16/17 07:07	03/16/17 14:47	1

Client Sample ID: ID flush

Date Collected: 03/04/17 07:17

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-2

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		0.50	ppb		03/16/17 07:07	03/16/17 14:49	1

Client Sample ID: ID 2 Lounge

Date Collected: 03/04/17 07:20

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-3

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	260		0.50	ppb		03/16/17 07:07	03/16/17 14:51	1

Client Sample ID: ID 3 HS Rest

Date Collected: 03/04/17 07:22

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-4

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.1		0.50	ppb		03/16/17 07:07	03/16/17 14:53	1

Client Sample ID: ID1,2,3,4 - D-2 Df

Date Collected: 03/05/17 07:25

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-5

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43		0.50	ppb		03/16/17 07:07	03/16/17 14:55	1

QC Sample Results

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-112495/1-A
Matrix: Water
Analysis Batch: 112606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112495

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		03/16/17 07:07	03/16/17 14:28	1

Lab Sample ID: LCS 550-112495/4-A
Matrix: Water
Analysis Batch: 112606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	100	95.9		ppb		96	85 - 115

Lab Sample ID: LCSD 550-112495/5-A
Matrix: Water
Analysis Batch: 112606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	100	96.1		ppb		96	85 - 115	0	20

Lab Sample ID: 550-78757-A-6-B MS
Matrix: Water
Analysis Batch: 112606

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 112495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	17		100	109		ppb		92	70 - 130

Lab Sample ID: 550-78757-A-6-C MSD
Matrix: Water
Analysis Batch: 112606

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 112495

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	17		100	110		ppb		93	70 - 130	1	20

QC Association Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Metals

Prep Batch: 112495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-78814-1	ID1	Total/NA	Drinking Water	200.8	
550-78814-2	ID flush	Total/NA	Drinking Water	200.8	
550-78814-3	ID 2 Lounge	Total/NA	Drinking Water	200.8	
550-78814-4	ID 3 HS Rest	Total/NA	Drinking Water	200.8	
550-78814-5	ID1,2,3,4 - D-2 Df	Total/NA	Drinking Water	200.8	
MB 550-112495/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-112495/4-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-112495/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-78757-A-6-B MS	Matrix Spike	Total/NA	Water	200.8	
550-78757-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 112606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-78814-1	ID1	Total/NA	Drinking Water	200.8	112495
550-78814-2	ID flush	Total/NA	Drinking Water	200.8	112495
550-78814-3	ID 2 Lounge	Total/NA	Drinking Water	200.8	112495
550-78814-4	ID 3 HS Rest	Total/NA	Drinking Water	200.8	112495
550-78814-5	ID1,2,3,4 - D-2 Df	Total/NA	Drinking Water	200.8	112495
MB 550-112495/1-A	Method Blank	Total/NA	Water	200.8	112495
LCS 550-112495/4-A	Lab Control Sample	Total/NA	Water	200.8	112495
LCSD 550-112495/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	112495
550-78757-A-6-B MS	Matrix Spike	Total/NA	Water	200.8	112495
550-78757-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	112495

Lab Chronicle

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

Client Sample ID: ID1

Date Collected: 03/04/17 07:15

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			112495	03/16/17 07:07	SGO	TAL PHX
Total/NA	Analysis	200.8		1	112606	03/16/17 14:47	TEK	TAL PHX

Client Sample ID: ID flush

Date Collected: 03/04/17 07:17

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			112495	03/16/17 07:07	SGO	TAL PHX
Total/NA	Analysis	200.8		1	112606	03/16/17 14:49	TEK	TAL PHX

Client Sample ID: ID 2 Lounge

Date Collected: 03/04/17 07:20

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			112495	03/16/17 07:07	SGO	TAL PHX
Total/NA	Analysis	200.8		1	112606	03/16/17 14:51	TEK	TAL PHX

Client Sample ID: ID 3 HS Rest

Date Collected: 03/04/17 07:22

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			112495	03/16/17 07:07	SGO	TAL PHX
Total/NA	Analysis	200.8		1	112606	03/16/17 14:53	TEK	TAL PHX

Client Sample ID: ID1,2,3,4 - D-2 Df

Date Collected: 03/05/17 07:25

Date Received: 03/07/17 15:38

Lab Sample ID: 550-78814-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			112495	03/16/17 07:07	SGO	TAL PHX
Total/NA	Analysis	200.8		1	112606	03/16/17 14:55	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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

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 / Tolleson School District

TestAmerica Job ID: 550-78814-1
SDG: Tolleson High School/Confirmation Sampling

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

Lead In Schools Confirmation Sampling Log

78814

School District: Tolleson

School Name: Tolleson High School

Building Name/Number/Year Built: 1600 Library

Sample Collector Name and Phone Number: Frank Gonzalez / Richard Oros

Part 1

Part 2

	Fountain/faucet name location	Sample ID number	Sample ID	Collection Time	Collection Date
1	1600 Drinking Fountain	ID 1		7:15 AM	3-4-17
2	1600 OF	ID F103H		7:17 AM	3-4-17
3	1600 Hand Sink Lounge	ID 2 Lounge		7:20 AM	3-4-17
4	1600 Hand Sink Restroom	ID 3 HS Rest		7:22 AM	3-4-17
5					
6					
7	1600 Drinking Fountain Library	ID 1-D-2 OF		3/5/17 7:25 AM	3/5/17
8	1600 Drinking Fountain Library	ID 2-D-2 OF		3/5/17 7:31 AM	3/5/17
9	1600 Drinking Fountain Library	ID 3-D-2 OF		7:35 AM	3/5/17
10	1600 Drinking Fountain Library	ID 4-D-2 OF		7:38 AM	3/5/17
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SSO-78814 Chain of Custody



These samples were collected for screening purposes only and are not to be used for compliance determinations

Lead In Schools Confirmation Sampling Log

School District: Tolleson

School Name: Tolleson High School

Building Name/Number/Year Built: 1600 Library

Sample Collector Name and Phone Number: Frank Gonzalez / Richard Oros

Set 1

Set 2

	Fountain/faucet name location	Sample ID number	Sample ID	Collection Time	Collection Date
1	1600 Drinking Fountain	ID 1		7:15 AM	3-4-17
2	1600 OF	ID FLUSH		7:17 AM	3-4-17
3	1600 Hand Sink Lounge	ID 2 Lounge		7:20 AM	3-4-17
4	1600 Hand Sink Restroom	ID 3 H&R		7:22 AM	3-4-17
5					
6					
7	1600 Drinking Fountain Library	ID 1-0-2 OF		3/5/17 7:25 AM	3/5/17
8	1600 Drinking Fountain Library	ID 2-0-2 OF		3/5/17 7:31 AM	3/5/17
9	1600 Drinking Fountain Library	ID 3-0-2 OF		7:35 AM	3/5/17
10	1600 Drinking Fountain Library	ID 4-0-2 OF		7:38 AM	3/5/17
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Call David
Tomason
marking

sampled the marking!

8 March 2017 - Client requested the sample for Day 2 be composited into a 1L container and analyzed as one sample for Pb.

These samples were collected for screening purposes only and are not to be used for compliance determinations

Login Sample Receipt Checklist

Client: Arizona Dept of Environmental Quality

Job Number: 550-78814-1

SDG Number: Tolleson High School/Confirmation Sampling

Login Number: 78814

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.