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: 550-78854-1
TestAmerica SDG: Apache Junction High School/Confirmation Sampling
Client Project/Site: Pb in DW/Apache Junction Unified Dist

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 12:49:12 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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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)

Case Narrative

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Job ID: 550-78854-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-78854-1

Comments
No additional comments.

Receipt
The samples were received on 3/8/2017 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.7º C.

Receipt Exceptions
The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: ID-1 (550-78854-1), ID-1 Flushed (550-78854-2), D-2 1 (550-78854-3), D-2 2 (550-78854-4), D-2 3 (550-78854-5) and D-2 4 (550-78854-6). 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/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-78854-1	ID-1	Water	03/04/17 06:08	03/08/17 16:30
550-78854-2	ID-1 Flushed	Water	03/04/17 06:09	03/08/17 16:30
550-78854-3	D-2 1	Water	03/05/17 06:17	03/08/17 16:30
550-78854-4	D-2 2	Water	03/05/17 06:17	03/08/17 16:30
550-78854-5	D-2 3	Water	03/05/17 06:18	03/08/17 16:30
550-78854-6	D-2 4	Water	03/05/17 06:18	03/08/17 16:30

Detection Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Client Sample ID: ID-1 — Lab Sample ID: 550-78854-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	38		0.50		ppb	1		200.8	Total/NA

Client Sample ID: ID-1 Flushed — Lab Sample ID: 550-78854-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	6.2		0.50		ppb	1		200.8	Total/NA

Client Sample ID: D-2 1 — Lab Sample ID: 550-78854-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	22		0.50		ppb	1		200.8	Total/NA

Client Sample ID: D-2 2 — Lab Sample ID: 550-78854-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.50		ppb	1		200.8	Total/NA

Client Sample ID: D-2 3 — Lab Sample ID: 550-78854-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	6.8		0.50		ppb	1		200.8	Total/NA

Client Sample ID: D-2 4 — Lab Sample ID: 550-78854-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	6.3		0.50		ppb	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Client Sample ID: ID-1

Lab Sample ID: 550-78854-1
Date Collected: 03/04/17 06:08
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	38		0.50		ppb		03/16/17 07:07	03/16/17 15:07	1

Client Sample ID: ID-1 Flushed

Lab Sample ID: 550-78854-2
Date Collected: 03/04/17 06:09
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.2		0.50		ppb		03/16/17 07:07	03/16/17 15:08	1

Client Sample ID: D-2 1

Lab Sample ID: 550-78854-3
Date Collected: 03/05/17 06:17
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		0.50		ppb		03/16/17 07:07	03/16/17 15:11	1

Client Sample ID: D-2 2

Lab Sample ID: 550-78854-4
Date Collected: 03/05/17 06:17
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.50		ppb		03/16/17 07:07	03/16/17 15:12	1

Client Sample ID: D-2 3

Lab Sample ID: 550-78854-5
Date Collected: 03/05/17 06:18
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.8		0.50		ppb		03/16/17 07:07	03/16/17 15:14	1

Client Sample ID: D-2 4

Lab Sample ID: 550-78854-6
Date Collected: 03/05/17 06:18
Matrix: Water
Date Received: 03/08/17 16:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.3		0.50		ppb		03/16/17 07:07	03/16/17 15:16	1

QC Sample Results

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-112495/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 112606 — **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 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 112606 — **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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 112606 — **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 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 112606 — **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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 112606 — **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/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Metals

Prep Batch: 112495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-78854-1	ID-1	Total/NA	Water	200.8	
550-78854-2	ID-1 Flushed	Total/NA	Water	200.8	
550-78854-3	D-2 1	Total/NA	Water	200.8	
550-78854-4	D-2 2	Total/NA	Water	200.8	
550-78854-5	D-2 3	Total/NA	Water	200.8	
550-78854-6	D-2 4	Total/NA	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
550-78854-1	ID-1	Total/NA	Water	200.8	112495
550-78854-2	ID-1 Flushed	Total/NA	Water	200.8	112495
550-78854-3	D-2 1	Total/NA	Water	200.8	112495
550-78854-4	D-2 2	Total/NA	Water	200.8	112495
550-78854-5	D-2 3	Total/NA	Water	200.8	112495
550-78854-6	D-2 4	Total/NA	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/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

Client Sample ID: ID-1 — Lab Sample ID: 550-78854-1

Date Collected: 03/04/17 06:08 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:07	TEK	TAL PHX

Client Sample ID: ID-1 Flushed — Lab Sample ID: 550-78854-2

Date Collected: 03/04/17 06:09 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:08	TEK	TAL PHX

Client Sample ID: D-2 1 — Lab Sample ID: 550-78854-3

Date Collected: 03/05/17 06:17 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:11	TEK	TAL PHX

Client Sample ID: D-2 2 — Lab Sample ID: 550-78854-4

Date Collected: 03/05/17 06:17 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:12	TEK	TAL PHX

Client Sample ID: D-2 3 — Lab Sample ID: 550-78854-5

Date Collected: 03/05/17 06:18 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:14	TEK	TAL PHX

Client Sample ID: D-2 4 — Lab Sample ID: 550-78854-6

Date Collected: 03/05/17 06:18 — **Matrix: Water**
Date Received: 03/08/17 16:30

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 15:16	TEK	TAL PHX

Lab Chronicle

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction High School/Confirmation Sampling

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/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction 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

Method Summary

Client: Arizona Dept of Environmental Quality
Project/Site: Pb in DW/Apache Junction Unified Dist

TestAmerica Job ID: 550-78854-1
SDG: Apache Junction 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

18077

Lead In Schools Confirmation Sampling Log

School District: Apache Junction Unified School District (AJUSD)

School Name: Apache Junction High School

Building Name/Number/Year Built: Building W 1988

Sample Collector Name and Phone Number: Larry Hill 480-982-110 Ext. 2216

	Fountain/faucet name location	Sample ID number	Sample ID	Collection Time	Collection Date
1	Sink	Building W	FD-1	6:08 AM	3-4-17
2	Sink	Building W	FD-1 Flushed	6:09 AM	3-4-17
3	Sink	building W	D-2 1	6:17 AM	3-5-17
4	Sink	building W	D-2 2	6:17 AM	3-5-17
5	Sink	building W	D-2 3	6:18 AM	3-5-17
6	Sink	building W	D-2 4	6:18 AM	3-5-17
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550-78854 Chain of Custody

RECEIVED
MAR 08 2017
ADEQ

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: 550-78854-1

SDG Number: Apache Junction High School/Confirmation Sampling

Login Number: 78854

List Source: TestAmerica Phoenix

List Number: 1

Creator: Allen, Chad P

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.