

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Phoenix

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Tel: (602)437-3340

TestAmerica Job ID: 550-77296-1

TestAmerica Sample Delivery Group: Palo Verde

Client Project/Site: Pb in DW/Casa Grande S.D.

For:

Arizona Dept of Environmental Quality

1110 W. Washington St., MC5415B-1

Phoenix, Arizona 85007

Attn: David A Burchard



Authorized for release by:

2/16/2017 2:15:30 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/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

### 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/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

**Job ID: 550-77296-1**

**Laboratory: TestAmerica Phoenix**

### Narrative

#### Job Narrative 550-77296-1

### Comments

No additional comments.

### Receipt

The samples were received on 2/9/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.0° C.

### Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: 1006 (550-77296-1), 1003 (550-77296-2), 1004 (550-77296-3), 1005 (550-77296-4), 1007 (550-77296-5), 1006 (550-77296-6), 1001 (550-77296-7), 1002 (550-77296-8), 1008 (550-77296-9), 1004 (550-77296-10), 1003 (550-77296-11) and 1005 (550-77296-12). 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/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-77296-1	1006	Drinking Water	02/08/17 06:38	02/09/17 10:30
550-77296-2	1003	Drinking Water	02/08/17 06:17	02/09/17 10:30
550-77296-3	1004	Drinking Water	02/08/17 06:23	02/09/17 10:30
550-77296-4	1005	Drinking Water	02/08/17 06:27	02/09/17 10:30
550-77296-5	1007	Drinking Water	02/08/17 06:30	02/09/17 10:30
550-77296-6	1006	Drinking Water	02/08/17 06:39	02/09/17 10:30
550-77296-7	1001	Drinking Water	02/08/17 06:12	02/09/17 10:30
550-77296-8	1002	Drinking Water	02/08/17 06:14	02/09/17 10:30
550-77296-9	1008	Drinking Water	02/08/17 06:33	02/09/17 10:30
550-77296-10	1004	Drinking Water	02/08/17 06:24	02/09/17 10:30
550-77296-11	1003	Drinking Water	02/08/17 06:19	02/09/17 10:30
550-77296-12	1005	Drinking Water	02/08/17 06:28	02/09/17 10:30

## Detection Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

### Client Sample ID: 1006

### Lab Sample ID: 550-77296-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.54		0.50	ppb	1		200.8	Total/NA

### Client Sample ID: 1003

### Lab Sample ID: 550-77296-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.7		0.50	ppb	1		200.8	Total/NA

### Client Sample ID: 1004

### Lab Sample ID: 550-77296-3

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

### Client Sample ID: 1005

### Lab Sample ID: 550-77296-4

No Detections.

### Client Sample ID: 1007

### Lab Sample ID: 550-77296-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.2		0.50	ppb	1		200.8	Total/NA

### Client Sample ID: 1006

### Lab Sample ID: 550-77296-6

No Detections.

### Client Sample ID: 1001

### Lab Sample ID: 550-77296-7

No Detections.

### Client Sample ID: 1002

### Lab Sample ID: 550-77296-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.95		0.50	ppb	1		200.8	Total/NA

### Client Sample ID: 1008

### Lab Sample ID: 550-77296-9

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

### Client Sample ID: 1004

### Lab Sample ID: 550-77296-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	24		0.50	ppb	1		200.8	Total/NA

### Client Sample ID: 1003

### Lab Sample ID: 550-77296-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.2		0.50	ppb	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Phoenix

## Detection Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

**Client Sample ID: 1005**

**Lab Sample ID: 550-77296-12**

☐ No Detections.

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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/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

## Client Sample ID: 1006

Date Collected: 02/08/17 06:38

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-1

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.54		0.50	ppb		02/15/17 06:08	02/15/17 10:23	1

## Client Sample ID: 1003

Date Collected: 02/08/17 06:17

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-2

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7		0.50	ppb		02/15/17 06:08	02/15/17 10:28	1

## Client Sample ID: 1004

Date Collected: 02/08/17 06:23

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-3

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.50	ppb		02/15/17 06:08	02/15/17 10:30	1

## Client Sample ID: 1005

Date Collected: 02/08/17 06:27

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-4

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/15/17 06:08	02/15/17 10:32	1

## Client Sample ID: 1007

Date Collected: 02/08/17 06:30

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-5

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		0.50	ppb		02/15/17 06:08	02/15/17 10:34	1

## Client Sample ID: 1006

Date Collected: 02/08/17 06:39

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-6

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/15/17 06:08	02/15/17 10:36	1

## Client Sample ID: 1001

Date Collected: 02/08/17 06:12

Date Received: 02/09/17 10:30

## Lab Sample ID: 550-77296-7

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/15/17 06:08	02/15/17 10:38	1

TestAmerica Phoenix



## Client Sample Results

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

### Client Sample ID: 1002

Date Collected: 02/08/17 06:14

Date Received: 02/09/17 10:30

### Lab Sample ID: 550-77296-8

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.95		0.50	ppb	—	02/15/17 06:24	02/15/17 11:56	1

### Client Sample ID: 1008

Date Collected: 02/08/17 06:33

Date Received: 02/09/17 10:30

### Lab Sample ID: 550-77296-9

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	—	02/15/17 06:24	02/15/17 12:01	1

### Client Sample ID: 1004

Date Collected: 02/08/17 06:24

Date Received: 02/09/17 10:30

### Lab Sample ID: 550-77296-10

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		0.50	ppb	—	02/15/17 06:24	02/15/17 12:03	1

### Client Sample ID: 1003

Date Collected: 02/08/17 06:19

Date Received: 02/09/17 10:30

### Lab Sample ID: 550-77296-11

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.50	ppb	—	02/15/17 06:24	02/15/17 12:05	1

### Client Sample ID: 1005

Date Collected: 02/08/17 06:28

Date Received: 02/09/17 10:30

### Lab Sample ID: 550-77296-12

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb	—	02/15/17 06:24	02/15/17 12:07	1

# QC Sample Results

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

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

Lab Sample ID: MB 550-110135/1-A  
Matrix: Water  
Analysis Batch: 110167

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 110135

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/15/17 06:08	02/15/17 09:40	1

Lab Sample ID: LCS 550-110135/4-A  
Matrix: Water  
Analysis Batch: 110167

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 110135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	100	90.2		ppb		90	85 - 115

Lab Sample ID: LCSD 550-110135/5-A  
Matrix: Water  
Analysis Batch: 110167

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 110135

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	100	90.8		ppb		91	85 - 115	1	20

Lab Sample ID: 550-77246-A-1-B MS  
Matrix: Water  
Analysis Batch: 110167

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 110135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		100	86.2		ppb		86	70 - 130

Lab Sample ID: 550-77246-A-1-C MSD  
Matrix: Water  
Analysis Batch: 110167

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 110135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	ND		100	87.0		ppb		87	70 - 130	1	20

Lab Sample ID: MB 550-110136/1-A  
Matrix: Water  
Analysis Batch: 110185

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 110136

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	ppb		02/15/17 06:24	02/15/17 11:46	1

Lab Sample ID: LCS 550-110136/4-A  
Matrix: Water  
Analysis Batch: 110185

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 110136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	100	91.8		ppb		92	85 - 115

Lab Sample ID: LCSD 550-110136/5-A  
Matrix: Water  
Analysis Batch: 110185

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 110136

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	100	92.6		ppb		93	85 - 115	1	20

TestAmerica Phoenix

## QC Sample Results

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

Lab Sample ID: 550-77296-8 MS

Matrix: Drinking Water

Analysis Batch: 110185

Client Sample ID: 1002

Prep Type: Total/NA

Prep Batch: 110136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.95		100	87.1		ppb		86	70 - 130

Lab Sample ID: 550-77296-8 MSD

Matrix: Drinking Water

Analysis Batch: 110185

Client Sample ID: 1002

Prep Type: Total/NA

Prep Batch: 110136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	0.95		100	86.8		ppb		86	70 - 130	0	20

TestAmerica Phoenix

# QC Association Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

## Metals

### Prep Batch: 110135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77296-1	1006	Total/NA	Drinking Water	200.8	
550-77296-2	1003	Total/NA	Drinking Water	200.8	
550-77296-3	1004	Total/NA	Drinking Water	200.8	
550-77296-4	1005	Total/NA	Drinking Water	200.8	
550-77296-5	1007	Total/NA	Drinking Water	200.8	
550-77296-6	1006	Total/NA	Drinking Water	200.8	
550-77296-7	1001	Total/NA	Drinking Water	200.8	
MB 550-110135/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-110135/4-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-110135/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-77246-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	
550-77246-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

### Prep Batch: 110136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77296-8	1002	Total/NA	Drinking Water	200.8	
550-77296-9	1008	Total/NA	Drinking Water	200.8	
550-77296-10	1004	Total/NA	Drinking Water	200.8	
550-77296-11	1003	Total/NA	Drinking Water	200.8	
550-77296-12	1005	Total/NA	Drinking Water	200.8	
MB 550-110136/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-110136/4-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-110136/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-77296-8 MS	1002	Total/NA	Drinking Water	200.8	
550-77296-8 MSD	1002	Total/NA	Drinking Water	200.8	

### Analysis Batch: 110167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77296-1	1006	Total/NA	Drinking Water	200.8	110135
550-77296-2	1003	Total/NA	Drinking Water	200.8	110135
550-77296-3	1004	Total/NA	Drinking Water	200.8	110135
550-77296-4	1005	Total/NA	Drinking Water	200.8	110135
550-77296-5	1007	Total/NA	Drinking Water	200.8	110135
550-77296-6	1006	Total/NA	Drinking Water	200.8	110135
550-77296-7	1001	Total/NA	Drinking Water	200.8	110135
MB 550-110135/1-A	Method Blank	Total/NA	Water	200.8	110135
LCS 550-110135/4-A	Lab Control Sample	Total/NA	Water	200.8	110135
LCSD 550-110135/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	110135
550-77246-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	110135
550-77246-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	110135

### Analysis Batch: 110185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77296-8	1002	Total/NA	Drinking Water	200.8	110136
550-77296-9	1008	Total/NA	Drinking Water	200.8	110136
550-77296-10	1004	Total/NA	Drinking Water	200.8	110136
550-77296-11	1003	Total/NA	Drinking Water	200.8	110136
550-77296-12	1005	Total/NA	Drinking Water	200.8	110136
MB 550-110136/1-A	Method Blank	Total/NA	Water	200.8	110136
LCS 550-110136/4-A	Lab Control Sample	Total/NA	Water	200.8	110136
LCSD 550-110136/5-A	Lab Control Sample Dup	Total/NA	Water	200.8	110136

TestAmerica Phoenix

## QC Association Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

### Metals (Continued)

#### Analysis Batch: 110185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-77296-8 MS	1002	Total/NA	Drinking Water	200.8	110136
550-77296-8 MSD	1002	Total/NA	Drinking Water	200.8	110136

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

**Client Sample ID: 1006**

**Date Collected: 02/08/17 06:38**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-1**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:23	TEK	TAL PHX

**Client Sample ID: 1003**

**Date Collected: 02/08/17 06:17**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-2**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:28	TEK	TAL PHX

**Client Sample ID: 1004**

**Date Collected: 02/08/17 06:23**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-3**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:30	TEK	TAL PHX

**Client Sample ID: 1005**

**Date Collected: 02/08/17 06:27**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-4**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:32	TEK	TAL PHX

**Client Sample ID: 1007**

**Date Collected: 02/08/17 06:30**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-5**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:34	TEK	TAL PHX

**Client Sample ID: 1006**

**Date Collected: 02/08/17 06:39**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-6**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:36	TEK	TAL PHX

TestAmerica Phoenix

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

**Client Sample ID: 1001**

**Date Collected: 02/08/17 06:12**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-7**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110135	02/15/17 06:08	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110167	02/15/17 10:38	TEK	TAL PHX

**Client Sample ID: 1002**

**Date Collected: 02/08/17 06:14**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-8**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110136	02/15/17 06:24	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110185	02/15/17 11:56	TEK	TAL PHX

**Client Sample ID: 1008**

**Date Collected: 02/08/17 06:33**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-9**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110136	02/15/17 06:24	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110185	02/15/17 12:01	TEK	TAL PHX

**Client Sample ID: 1004**

**Date Collected: 02/08/17 06:24**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-10**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110136	02/15/17 06:24	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110185	02/15/17 12:03	TEK	TAL PHX

**Client Sample ID: 1003**

**Date Collected: 02/08/17 06:19**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-11**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110136	02/15/17 06:24	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110185	02/15/17 12:05	TEK	TAL PHX

**Client Sample ID: 1005**

**Date Collected: 02/08/17 06:28**

**Date Received: 02/09/17 10:30**

**Lab Sample ID: 550-77296-12**

**Matrix: Drinking Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			110136	02/15/17 06:24	SGO	TAL PHX
Total/NA	Analysis	200.8		1	110185	02/15/17 12:07	TEK	TAL PHX

TestAmerica Phoenix

# Lab Chronicle

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

**Laboratory References:**

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

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## Certification Summary

Client: Arizona Dept of Environmental Quality  
Project/Site: Pb in DW/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

### 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/Casa Grande S.D.

TestAmerica Job ID: 550-77296-1  
SDG: Palo Verde

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

77296

ADEQ Public School Drinking Water Lead Screening Program  
Sampling Plan & Collection Log

### 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	Palo Verde School District
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	Cafeteria
Sample Identification Number (ensure this number is also on the sample container)	1006
Date of Collection	2-8-17
Time of Collection	6:38
Printed Name of Sample Collector	Sam Penner
Signature Sample Collector	<i>[Signature]</i>

Notes Sample collector:

550-77296 Chain of Custody



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.

*[Signature]*

2/9/17

10:30

*[Signature]*

Grand

21.0

2/16/2017

## 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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	A wing Classroom A-1
Sample Identification Number (ensure this number is also on the sample container)	1003
Date of Collection	2-8-17
Time of Collection	6:17 am
Printed Name of Sample Collector	Sam Pennington
Signature Sample Collector	<i>[Signature]</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

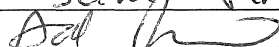
Relinquished date and signature \_\_\_\_\_

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

**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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking Water
Location of Fixture (example, room number)	B Wing Classroom B-3
Sample Identification Number (ensure this number is also on the sample container)	1004
Date of Collection	2-8-17
Time of Collection	6:23 am
Printed Name of Sample Collector	Samy Penonuri
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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10:30  
Ful Q  
Gant  
21-2/16/2017

ADEQ Public School Drinking Water Lead Screening Program  
Sampling Plan & Collection Log

**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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	C Wing Classroom 63
Sample Identification Number (ensure this number is also on the sample container)	1005
Date of Collection	2-8-17
Time of Collection	6:27
Printed Name of Sample Collector	Sam Perunuri
Signature Sample Collector	<i>Sam Perunuri</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.*

### 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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Sink
Location of Fixture (example, room number)	C Wing C-1
Sample Identification Number (ensure this number is also on the sample container)	1007
Date of Collection	2-8-17
Time of Collection	6:30 am
Printed Name of Sample Collector	Sam Penunuri
Signature Sample Collector	[Signature]

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.

2/9/17 10:30  
Fred Q. Groul  
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2/16/2017

ADEQ Public School Drinking Water Lead Screening Program  
Sampling Plan & Collection Log

# 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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	Cafeteria Lounge
Sample Identification Number (ensure this number is also on the sample container)	1006
Date of Collection	2-8-17
Time of Collection	6:39
Printed Name of Sample Collector	Sam P
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.*

al  
2/9/17  
10:30  
Felix  
Garcia  
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2.16.17



### 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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	Gym
Sample Identification Number (ensure this number is also on the sample container)	1001
Date of Collection	2-8-17
Time of Collection	6:12 am
Printed Name of Sample Collector	Sam P
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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Page 2 of 2  
21.010  
2/16/2017

ADEQ Public School Drinking Water Lead Screening Program  
Sampling Plan & Collection Log

**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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	E-W Drinking Fountain
Location of Fixture (example, room number)	E-Wing E-2
Sample Identification Number (ensure this number is also on the sample container)	1002
Date of Collection	2-8-17
Time of Collection	6:14
Printed Name of Sample Collector	Sam Penonon
Signature Sample Collector	<i>Paul</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.*

*Al*  
*2/9/17*  
*10130*

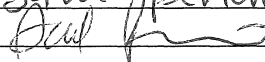
*Fred Ed*  
*Good*  
Page 2 of 2  
*262 no*  
*2/16/2017*

### 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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Tap
Location of Fixture (example, room number)	media Center
Sample Identification Number (ensure this number is also on the sample container)	1008
Date of Collection	2-8-17
Time of Collection	6:33 am
Printed Name of Sample Collector	Sam Plenumuri
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 \_\_\_\_\_

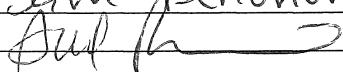
*These samples were collected for lead screening purposes only and cannot be used for compliance.*

  
2/9/17  
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21.0 no  
2/16/2017

**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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	B-wing Classroom B-3
Sample Identification Number (ensure this number is also on the sample container)	1004
Date of Collection	2-8-17
Time of Collection	6:24
Printed Name of Sample Collector	Sam Penonuri
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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Page 2 of 2  
2/9/17  
10:30  
2/16/2017

ADEQ Public School Drinking Water Lead Screening Program  
Sampling Plan & Collection Log

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	Casa Grande Elementary
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking Fountain
Location of Fixture (example, room number)	A wing Classroom A-2
Sample Identification Number (ensure this number is also on the sample container)	1003
Date of Collection	2-8-17
Time of Collection	6:19 am
Printed Name of Sample Collector	Samy Penonviri
Signature Sample Collector	Paul

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.


Ed B  
Ground  
2/9/17  
10:30  
2/10/2017

## 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	Casa Grande Elementary D.
School Name	Palo Verde
Building (name/number)	
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain
Location of Fixture (example, room number)	C wing Classroom C-3
Sample Identification Number (ensure this number is also on the sample container)	1005
Date of Collection	2-8-17
Time of Collection	6:28
Printed Name of Sample Collector	Sam Penonovi
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

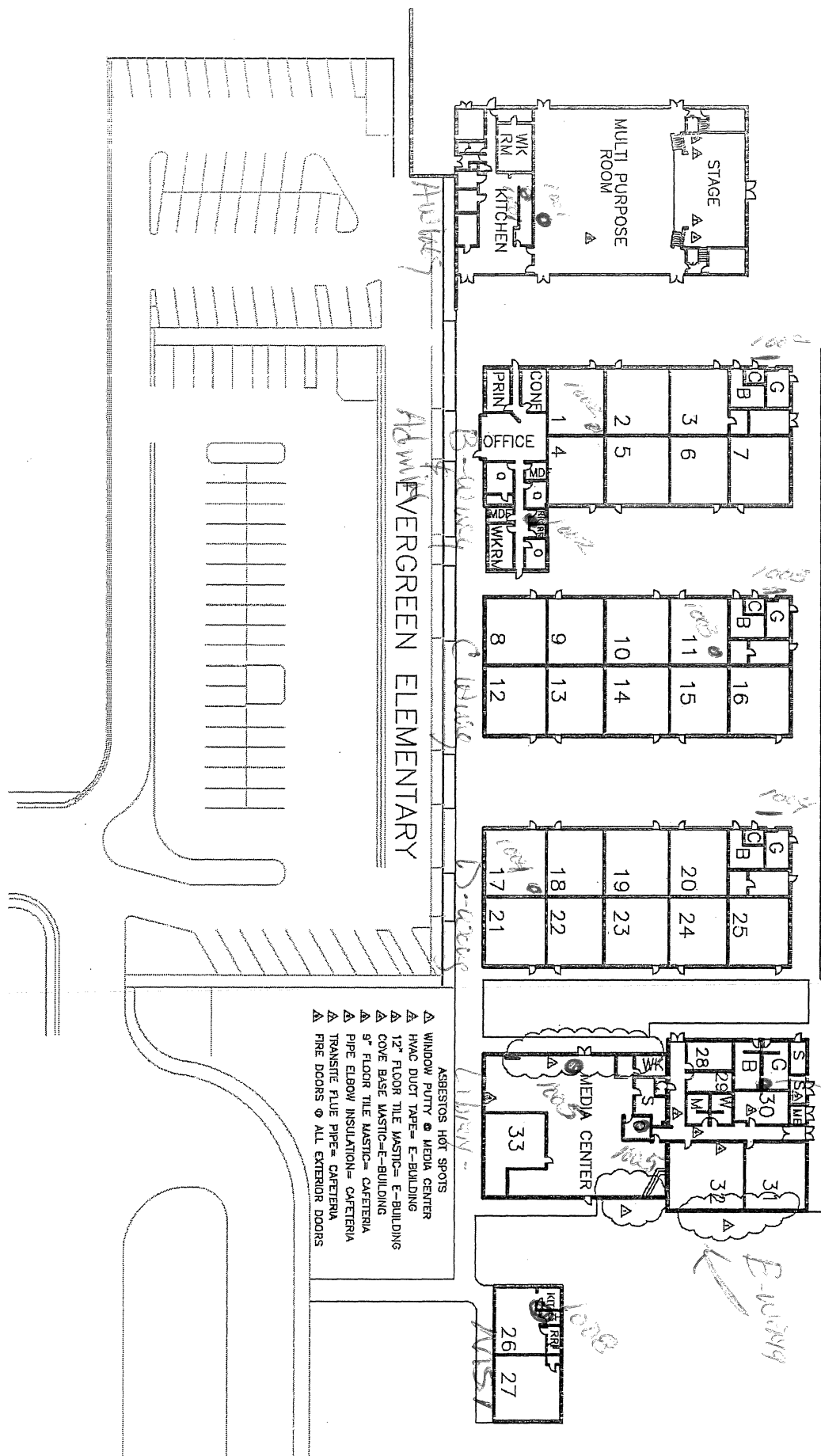
Relinquished date and signature \_\_\_\_\_

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

  
2/9/17  
10130

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Page 2 of 2

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## Login Sample Receipt Checklist

Client: Arizona Dept of Environmental Quality

Job Number: 550-77296-1

SDG Number: Palo Verde

**Login Number: 77296**

**List Source: TestAmerica Phoenix**

**List Number: 1**

**Creator: Gravlin, Andrea**

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.