



*City of Tempe*  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: [www.tempe.gov](http://www.tempe.gov)

July 03, 2017

Justin Bern  
City of Tempe Lead & Copper  
P.O. Box 5002  
Tempe, AZ 85280  
TEL: (480) 350-2860  
FAX (480) 350-2677

RE: ADEQ School Lead Initiative

Order No.: 1706188

Dear Justin Bern:

City of Tempe received 7 sample(s) on 06/22/2017 for the analyses presented in the following report.

Justin Bern  
Quality Officer  
6600 S Price Rd  
Tempe, AZ 85283

Lab license #AZ0055



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## Case Narrative

WO#: 1706188  
Date: 07/03/2017

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**CLIENT:** City of Tempe Lead & Copper  
**Project:** ADEQ School Lead Initiative

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This report in its entirety consists of the documents listed below. All documents contain the City of Tempe Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Copies of the Chain of Custody Documents supplied with this sample set.

Any comments or problems with the analytical events associated with this report are noted below.



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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-001A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-68

**Tag Number:**  
**Collection Date:** 06/20/2017 8:28:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	310	20		µg/L	20	06/27/2017 10:12:26 AM

**NOTES:**

D1 = Sample required dilution due to matrix.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-002A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-68

**Tag Number:**  
**Collection Date:** 06/20/2017 8:32:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	44	1.0		µg/L	1	06/27/2017 9:01:32 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-003A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-68

**Tag Number:**  
**Collection Date:** 06/21/2017 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8
						Analyst: MK
Lead	66	10		µg/L	10	06/27/2017 10:08:41 AM

**NOTES:**

D1 = Sample required dilution due to matrix.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-004A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-CY West #1

**Tag Number:**  
**Collection Date:** 06/21/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.4	1.0		µg/L	1	06/27/2017 9:09:24 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-005A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-CY West #2

**Tag Number:**  
**Collection Date:** 06/21/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.9	1.0		µg/L	1	06/27/2017 9:13:17 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-006A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-CY West #3

**Tag Number:**  
**Collection Date:** 06/21/2017 6:57:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.9	1.0		µg/L	1	06/27/2017 9:17:09 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1706188

Date Reported: 07/03/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1706188-007A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Tempe Academy 62-09-CY West #4

**Tag Number:**  
**Collection Date:** 06/21/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.8	1.0		µg/L	1	06/27/2017 9:20:54 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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## QC SUMMARY REPORT

WO#: 1706188

03-Jul-17

**Client:** City of Tempe Lead & Copper

**Project:** ADEQ School Lead Initiative

**BatchID:** 1011

Sample ID	MB-1011	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12651		
Client ID:	PBW	Batch ID:	1011	TestNo:	E200.8	E200.8		Analysis Date:	06/27/2017	SeqNo:	147551		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.0												
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Sample ID	LCS-1011	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12651		
Client ID:	LCSW	Batch ID:	1011	TestNo:	E200.8	E200.8		Analysis Date:	06/27/2017	SeqNo:	147554		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	0	101	85	115							
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Sample ID	1706187-008AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12651		
Client ID:	ZZZZZZ	Batch ID:	1011	TestNo:	E200.8	E200.8		Analysis Date:	06/27/2017	SeqNo:	147556		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	140	1.0	100.0	36.69	106	70	130							
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Sample ID	1706187-008AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12651		
Client ID:	ZZZZZZ	Batch ID:	1011	TestNo:	E200.8	E200.8		Analysis Date:	06/27/2017	SeqNo:	147557		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	140	1.0	100.0	36.69	107	70	130	142.8	0.489	20				
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**Qualifiers:**

H Holding times for preparation or analysis exceeded  
RL Reporting Detection Limit

M Manual Integration used to determine area response  
W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit



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## QC SUMMARY REPORT

WO#: 1706188

03-Jul-17

**Client:** City of Tempe Lead & Copper

**Project:** ADEQ School Lead Initiative

**BatchID:** 1011

Sample ID	1706189-003A MS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12651		
Client ID:	ZZZZZZ	Batch ID:	1011	TestNo:	E200.8	E200.8		Analysis Date:	06/27/2017	SeqNo:	147568		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	2.097	107	70	130				

Sample ID	1706189-003A MSD	SampType: MSD	TestCode: 200.8		Units: µg/L	Prep Date: 06/26/2017			RunNo: 12651			
Client ID:	ZZZZZZ	Batch ID: 1011	TestNo: E200.8		E200.8	Analysis Date: 06/27/2017			SeqNo: 147569			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110	1.0	100.0	2.097	107	70	130	108.8	0.275	20	

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
RL Reporting Detection Limit

M Manual Integration used to determine area response  
W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit