



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

April 06, 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.: 1704040

Dear Justin Bern:

City of Tempe received 8 sample(s) on 04/05/2017 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#: 1704040  
Date: 04/06/2017

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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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 5:55:00 AM
<b>Lab ID:</b>	1704040-001A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1018-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>					<b>E200.8</b>	<b>E200.8</b> Analyst: <b>MK</b>
Lead	6.1	1.0		µg/L	1	04/06/2017 12:33:29 PM

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<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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 5:57:00 AM
<b>Lab ID:</b>	1704040-002A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1018-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	6.9	1.0		µg/L	1	04/06/2017 12:45:49 PM

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<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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:00:00 AM
<b>Lab ID:</b>	1704040-003A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1018-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	8.7	1.0		µg/L	1	04/06/2017 12:49:37 PM

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	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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## Analytical Report

(base report)

WO#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:01:00 AM
<b>Lab ID:</b>	1704040-004A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1018-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>					<b>E200.8</b>	<b>E200.8</b> Analyst: <b>MK</b>
Lead	8.9	1.0		µg/L	1	04/06/2017 1:01:40 PM

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<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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:05:00 AM
<b>Lab ID:</b>	1704040-005A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1018-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>				<b>E200.8</b>	<b>E200.8</b>	Analyst: <b>MK</b>
Lead	5.3	1.0		µg/L	1	04/06/2017 1:05:30 PM

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## Analytical Report

(base report)

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Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:11:00 AM
<b>Lab ID:</b>	1704040-006A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1011-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>				<b>E200.8</b>	<b>E200.8</b>	Analyst: <b>MK</b>
Lead	85	1.0		µg/L	1	04/06/2017 1:09:28 PM

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	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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:14:00 AM
<b>Lab ID:</b>	1704040-007A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1012-02A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>					<b>E200.8</b>	<b>E200.8</b> Analyst: <b>MK</b>
Lead	28	1.0		µg/L	1	04/06/2017 1:13:25 PM

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<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#: **1704040**

Date Reported: **04/06/2017**

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:18:00 AM
<b>Lab ID:</b>	1704040-008A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_Marcos_de_Niza_High_School_1011-01A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>				<b>E200.8</b>	<b>E200.8</b>	Analyst: <b>MK</b>
Lead	47	1.0		µg/L	1	04/06/2017 1:17:15 PM

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<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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## QC SUMMARY REPORT

WO#: 1704040

06-Apr-17

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

**BatchID:** 959

Sample ID	MB-959	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	PBW	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142017			
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-959	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	LCSW	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142020			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		100		1.0	100.0	0		102	85	115				
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Sample ID	1704040-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	TUHSD_Marcos_de	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142022			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		110		1.0	100.0	6.136		108	70	130				
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Sample ID	1704040-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	TUHSD_Marcos_de	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142023			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		110		1.0	100.0	6.136		108	70	130	113.9	0.351	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#: 1704040

06-Apr-17

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

**BatchID:** 959

Sample ID	1704041-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180		
Client ID:	ZZZZZZ	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142032		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		200		1.0	100.0	90.92	111	70	130				

Sample ID	1704041-001AMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 04/06/2017	RunNo: 12180					
Client ID: ZZZZZZ	Batch ID: 959	TestNo: E200.8	E200.8	Analysis Date: 04/06/2017	SeqNo: 142033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	200	1.0	100.0	90.92	110	70	130	201.5	0.0993	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