



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

May 12, 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.: 1705098

Dear Justin Bern:

City of Tempe received 10 sample(s) on 05/09/2017 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#: 1705098  
Date: 05/12/2017

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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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:05:00 AM

**Lab ID:** 1705098-001A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1001\_10-01-R1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	ND	1.0		µg/L	1	05/10/2017 2:44:59 PM

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

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



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## Analytical Report

(base report)

WO#: 1705098

Date Reported: 05/12/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1705098-002A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** Frank\_1001\_10-01-01

**Tag Number:**  
**Collection Date:** 05/09/2017 5:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	2.2	1.0		µg/L	1	05/10/2017 2:57:10 PM

<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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:15:00 AM

**Lab ID:** 1705098-003A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1002\_10-02-26

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	ND	1.0		µg/L	1	05/10/2017 3:01:20 PM

<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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:19:00 AM

**Lab ID:** 1705098-004A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1002\_10-02-48

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	2.3	1.0		µg/L	1	05/10/2017 3:05:06 PM

<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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:25:00 AM

**Lab ID:** 1705098-005A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1003\_10-03-29

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	ND	1.0		µg/L	1	05/10/2017 3:09:10 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:31:00 AM

**Lab ID:** 1705098-006A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1004\_10-04-39

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.6	1.0		µg/L	1	05/10/2017 3:12:53 PM

**Qualifiers:**

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## Analytical Report

(base report)

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Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:37:00 AM

**Lab ID:** 1705098-007A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1005\_10-05-56

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	3.4	1.0		µg/L	1	05/10/2017 3:16:50 PM

<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#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:41:00 AM

**Lab ID:** 1705098-008A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1008\_10-08-61

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	5.3	1.0		µg/L	1	05/10/2017 3:20:40 PM

<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)

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Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:46:00 AM

**Lab ID:** 1705098-009A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1007\_10-07-59

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.2	1.0		µg/L	1	05/10/2017 3:32:26 PM

**Qualifiers:**

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ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

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## Analytical Report

(base report)

WO#: **1705098**

Date Reported: **05/12/2017**

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

**Tag Number:**

**Matrix:** DRINKING WATER

**Collection Date:** 05/09/2017 5:52:00 AM

**Lab ID:** 1705098-010A

**Project:** ADEQ School Lead Initiative

**Client Sample ID** Frank\_1006\_10-06-57

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	3.7	1.0		µg/L	1	05/10/2017 3:36:22 PM

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

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## QC SUMMARY REPORT

WO#: 1705098

12-May-17

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

**BatchID:** 982

Sample ID	MB-982	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370		
Client ID:	PBW	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144392		
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-982	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370			
Client ID:	LCSW	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144395			
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	1705098-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370			
Client ID:	Frank_1001_10-01-R	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144397			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	0	105	70	130				
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Sample ID	1705098-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370		
Client ID:	Frank_1001_10-01-R	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144398		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	0	106	70	130	105.2	0.758	20	
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**Qualifiers:**

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RL Reporting Detection Limit

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ND Not Detected at the Reporting Limit



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## QC SUMMARY REPORT

WO#: 1705098

12-May-17

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

**Project:** ADEQ School Lead Initiative

**BatchID:** 982

Sample ID	1705099-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370		
Client ID:	ZZZZZZ	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144409		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	6.203	106	70	130				

Sample ID	1705099-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	05/10/2017	RunNo:	12370		
Client ID:	ZZZZZZ	Batch ID:	982	TestNo:	E200.8	E200.8		Analysis Date:	05/10/2017	SeqNo:	144410		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	6.203	106	70	130	112.2	0	20	

**Qualifiers:**

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RL Reporting Detection Limit

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ND Not Detected at the Reporting Limit