



City of Tempe
6600 S Price Rd
Tempe, AZ 85283
TEL: 4803502855 FAX: 4803502677
Website: 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.: 1706185

Dear Justin Bern:

City of Tempe received 4 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#: 1706185
Date: 07/03/2017

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

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#: 1706185

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706185-001A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-06-P7-1

Tag Number:
Collection Date: 06/20/2017 5:29:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	13	1.0		µg/L	1	06/26/2017 1:37:41 PM

Qualifiers:	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#: 1706185

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/20/2017 5:33:00 AM

Lab ID: 1706185-002A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-06-P7-2

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	06/26/2017 1:41:28 PM

Qualifiers:	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#: 1706185

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706185-003A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-06-P7-3

Tag Number:
Collection Date: 06/21/2017 5:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	3.9	1.0		µg/L	1	06/26/2017 2:30:47 PM

Qualifiers:	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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Analytical Report

(base report)

WO#: 1706185

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706185-004A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-06-P8

Tag Number:
Collection Date: 06/21/2017 5:29:00 AM

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	06/26/2017 2:43:29 PM

Qualifiers:	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#: 1706185

03-Jul-17

Client: City of Tempe Lead & Copper

Project: ADEQ School Lead Initiative

BatchID: 1009

Sample ID	MB-1009	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644			
Client ID:	PBW	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147467			
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-1009	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	LCSW	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147470		
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	1706183-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644			
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147476			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	8.382	95.2	70	130							
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Sample ID	1706183-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147477		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	8.382	97.5	70	130	103.6	2.20	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#: 1706185

03-Jul-17

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

BatchID: 1009

Sample ID	1706184-003AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147484		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120		1.0	100.0	14.13	110	70	130				

Sample ID	1706184-003AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147485		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120		1.0	100.0	14.13	110	70	130	124.2	0.322	20	

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RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 1706185

03-Jul-17

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

BatchID: 1010

Sample ID	MB-1010	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645			
Client ID:	PBW	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147489			
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-1010	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645			
Client ID:	LCSW	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147492			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	0	104	85	115							
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Sample ID	1706185-003AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645			
Client ID:	Evans 19-06-P7-3	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147494			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	3.864	110	70	130							
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Sample ID	1706185-003AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645			
Client ID:	Evans 19-06-P7-3	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147495			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	3.864	110	70	130	114.1	0.263	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#: 1706185

03-Jul-17

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

BatchID: 1010

Sample ID	1706187-003AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645		
Client ID:	ZZZZZZ	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147504		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		92		1.0	100.0	15.72	76.2	70	130				

Sample ID	1706187-003AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12645		
Client ID:	ZZZZZZ	Batch ID:	1010	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147505		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		92		1.0	100.0	15.72	76.5	70	130	91.90	0.315	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