



City of Tempe
6600 S Price Rd
Tempe, AZ 85283
TEL: 4803502855 FAX: 4803502677
Website: 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.: 1705091

Dear Justin Bern:

City of Tempe received 10 sample(s) on 05/08/2017 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#: 1705091
Date: 05/12/2017

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.

Times on COC and Bottles did not match at time of receipt. Laboratory confirmed with client that the time written on the bottles was correct and COC's were corrected accordingly.



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Analytical Report

(base report)

WO#: **1705091**

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

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:48:00 AM

Lab ID: 1705091-001A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1005_11-05-P5

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	05/09/2017 12:58:19 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#: **1705091**

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

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:45:00 AM

Lab ID: 1705091-002A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1005_11-05-P6

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	5.5	1.0		µg/L	1	05/09/2017 1:02:03 PM

Qualifiers:

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

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Analytical Report

(base report)

WO#: 1705091

Date Reported: 05/12/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1705091-003A
Project: ADEQ School Lead Initiative
Client Sample ID Carminati_1001_11-01-L1

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.1	1.0		µg/L	1	05/09/2017 1:05:53 PM

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

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:05:00 AM

Lab ID: 1705091-004A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1001_11-01-128

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	05/09/2017 1:09:41 PM

Qualifiers:

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Analytical Report

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

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:12:00 AM

Lab ID: 1705091-005A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1002_11-02-K3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	5.1	1.0		µg/L	1	05/09/2017 1:13:37 PM

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

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WO#: 1705091

Date Reported: 05/12/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1705091-006A
Project: ADEQ School Lead Initiative
Client Sample ID Carminati_1002_11-02-M1

Tag Number:
Collection Date: 05/08/2017 5:17:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	1.7	1.0		µg/L	1	05/09/2017 1:25:52 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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Date Reported: 05/12/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:24:00 AM

Lab ID: 1705091-007A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1003_11-03-P1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	6.5	1.0		µg/L	1	05/09/2017 1:29:45 PM

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

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WO#: **1705091**

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

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:28:00 AM

Lab ID: 1705091-008A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1003_11-03-P2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	7.4	1.0		µg/L	1	05/09/2017 1:33:36 PM

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

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WO#: 1705091

Date Reported: 05/12/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1705091-009A
Project: ADEQ School Lead Initiative
Client Sample ID Carminati_1004_11-03-P3

Tag Number:
Collection Date: 05/08/2017 5:32:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	29	1.0		µg/L	1	05/09/2017 1:45:19 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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Date Reported: **05/12/2017**

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 05/08/2017 5:34:00 AM

Lab ID: 1705091-010A

Project: ADEQ School Lead Initiative

Client Sample ID Carminati_1004_11-03-P4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	15	1.0		µg/L	1	05/09/2017 1:49:06 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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QC SUMMARY REPORT

WO#: 1705091

12-May-17

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

BatchID: 978

Sample ID	MB-978	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	05/09/2017	RunNo:	12362		
Client ID:	PBW	Batch ID:	978	TestNo:	E200.8	E200.8		Analysis Date:	05/09/2017	SeqNo:	144265		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		1.0									

Sample ID	LCS-978	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/09/2017	RunNo:	12362			
Client ID:	LCSW	Batch ID:	978	TestNo:	E200.8	E200.8		Analysis Date:	05/09/2017	SeqNo:	144268			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		99		1.0	100.0	0		98.5	85	115				

Sample ID	1705089-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/09/2017	RunNo:	12362		
Client ID:	ZZZZZZ	Batch ID:	978	TestNo:	E200.8	E200.8		Analysis Date:	05/09/2017	SeqNo:	144270		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	3.226	103	70	130				

Sample ID	1705089-001AMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 05/09/2017	RunNo: 12362					
Client ID: ZZZZZZ	Batch ID: 978	TestNo: E200.8	E200.8	Analysis Date: 05/09/2017	SeqNo: 144271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	110	1.0	100.0	3.226	103	70	130	106.7	0	20	

Qualifiers:

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QC SUMMARY REPORT

WO#: 1705091

12-May-17

Client: City of Tempe Lead & Copper

Project: ADEQ School Lead Initiative

BatchID: 978

Sample ID	1705091-005AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	05/09/2017	RunNo:	12362		
Client ID:	Carminati_1002_11-	Batch ID:	978	TestNo:	E200.8	E200.8		Analysis Date:	05/09/2017	SeqNo:	144279		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	5.090	102	70	130				

Sample ID	1705091-005AMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 05/09/2017	RunNo: 12362					
Client ID:	Carminati_1002_11-	Batch ID: 978	TestNo: E200.8	E200.8	Analysis Date: 05/09/2017	SeqNo: 144280					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	110	1.0	100.0	5.090	102	70	130	106.8	0.653	20	

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