



4401 S. Tucson Estates Parkway
Tucson, Arizona 85735
520.791.2544 Phone
520.791.5260 Fax

20 April 2017

Water Quality Compliance 5415B-1
Arizona Department of Environmental Quality
1110 West Washington Street
Tucson, AZ 85735
RE: Public School Lead Screening Program

Enclosed are the results for Work Order L170433, received by the laboratory on 03/28/2017 12:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michael E. Dew
Lab Manager

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Main	L170433-01	Aqueous	03/21/2017 07:30	03/28/2017 12:21
So. Class Rm	L170433-02	Aqueous	03/21/2017 07:45	03/28/2017 12:21
South	L170433-03	Aqueous	03/21/2017 07:55	03/28/2017 12:21
Main	L170433-04	Aqueous	03/21/2017 06:30	03/28/2017 12:21
Activity Bldg	L170433-05	Aqueous	03/21/2017 06:43	03/28/2017 12:21
Admin Main	L170433-06	Aqueous	03/21/2017 08:23	03/28/2017 12:21
Pod C	L170433-07	Aqueous	03/21/2017 08:48	03/28/2017 12:21
Pod C Class Rm #13	L170433-08	Aqueous	03/21/2017 08:55	03/28/2017 12:21
Pod D East	L170433-09	Aqueous	03/21/2017 09:00	03/28/2017 12:21
Pod E	L170433-10	Aqueous	03/21/2017 09:15	03/28/2017 12:21
Pod E Class Rm	L170433-11	Aqueous	03/21/2017 09:20	03/28/2017 12:21
Pod F	L170433-12	Aqueous	03/21/2017 09:30	03/28/2017 12:21
Pod F Class Rm	L170433-13	Aqueous	03/21/2017 09:40	03/28/2017 12:21
Pod H North	L170433-14	Aqueous	03/21/2017 09:50	03/28/2017 12:21
Pod H MPR	L170433-15	Aqueous	03/21/2017 10:02	03/28/2017 12:21
Pod G	L170433-16	Aqueous	03/21/2017 10:10	03/28/2017 12:21
Pod J	L170433-17	Aqueous	03/21/2017 10:20	03/28/2017 12:21

Tucson Water Quality Laboratory



Michael E. Dew, Lab Manager

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Project: Public School Lead Screening Program
 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/20/2017 13:46

Main
L170433-01 (Aqueous)

Sampled:
 03/21/2017 7:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/20/2017 13:46

So. Class Rm
L170433-02 (Aqueous)

Sampled:
 03/21/2017 7:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00101	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:46

South
L170433-03 (Aqueous)

Sampled:
03/21/2017 7:55

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00476	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Main
L170433-04 (Aqueous)

Sampled:
 03/21/2017 6:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Activity Bldg
L170433-05 (Aqueous)

Sampled:
 03/21/2017 6:43

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:46

Admin Main
L170433-06 (Aqueous)

Sampled:
03/21/2017 8:23

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00212	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:46

Pod C
L170433-07 (Aqueous)

Sampled:
03/21/2017 8:48

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod C Class Rm #13
L170433-08 (Aqueous)

Sampled:
 03/21/2017 8:55

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod D East
L170433-09 (Aqueous)

Sampled:
 03/21/2017 9:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod E
L170433-10 (Aqueous)

Sampled:
 03/21/2017 9:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod E Class Rm
L170433-11 (Aqueous)

Sampled:
 03/21/2017 9:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Pod F
L170433-12 (Aqueous)

Sampled:
 03/21/2017 9:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod F Class Rm
L170433-13 (Aqueous)

Sampled:
 03/21/2017 9:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod H North
L170433-14 (Aqueous)

Sampled:
 03/21/2017 9:50

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Pod H MPR
L170433-15 (Aqueous)

Sampled:
03/21/2017 10:02

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod G
L170433-16 (Aqueous)

Sampled:
 03/21/2017 10:10

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Pod J
L170433-17 (Aqueous)

Sampled:
 03/21/2017 10:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:46

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BD71407-MS1)		Source: L170433-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00974	0.00101	mg/L	0.0101	0.000554	90.9	70-130			
Matrix Spike (BD71407-MS2)		Source: L170433-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00919	0.00101	mg/L	0.0101	5.70E-5	90.4	70-130			
Matrix Spike (BD71407-MS3)		Source: L170435-04		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00916	0.00101	mg/L	0.0101	5.10E-5	90.2	70-130			
Matrix Spike (BD71407-MS4)		Source: L170435-14		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0139	0.00101	mg/L	0.0101	0.00471	91.4	70-130			
Matrix Spike (BD71407-MS5)		Source: L170428-07		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0121	0.00101	mg/L	0.0101	3.60E-5	120	70-130			

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04/20/2017 13:46

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BD71407-MS6)		Source: L170431-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00976	0.00101	mg/L	0.0101	0.000433	92.3	70-130			
Matrix Spike (BD71407-MS7)		Source: L170431-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0120	0.00101	mg/L	0.0101	0.00271	91.6	70-130			
Matrix Spike (BD71407-MS8)		Source: L170444-03		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0108	0.00101	mg/L	0.0101	0.00128	94.7	70-130			
Matrix Spike (BD71407-MS9)		Source: L170444-13		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0106	0.00101	mg/L	0.0101	0.00107	94.7	70-130			
Matrix Spike Dup (BD71407-MSD1)		Source: L170433-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00998	0.00101	mg/L	0.0101	0.000554	93.4	70-130	2.49	10	

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Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BD71407-MSD2)		Source: L170433-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00916	0.00101	mg/L	0.0101	5.70E-5	90.2	70-130	0.308	10	
Matrix Spike Dup (BD71407-MSD3)		Source: L170435-04		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00914	0.00101	mg/L	0.0101	5.10E-5	90.0	70-130	0.243	10	
Matrix Spike Dup (BD71407-MSD4)		Source: L170435-14		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0139	0.00101	mg/L	0.0101	0.00471	90.8	70-130	0.429	10	
Matrix Spike Dup (BD71407-MSD5)		Source: L170428-07		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0122	0.00101	mg/L	0.0101	3.60E-5	121	70-130	0.581	10	
Matrix Spike Dup (BD71407-MSD6)		Source: L170431-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00973	0.00101	mg/L	0.0101	0.000433	92.0	70-130	0.290	10	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BD71407-MSD7)		Source: L170431-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0119	0.00101	mg/L	0.0101	0.00271	90.9	70-130	0.576	10	
Matrix Spike Dup (BD71407-MSD8)		Source: L170444-03		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0109	0.00101	mg/L	0.0101	0.00128	95.0	70-130	0.316	10	
Matrix Spike Dup (BD71407-MSD9)		Source: L170444-13		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0107	0.00101	mg/L	0.0101	0.00107	94.9	70-130	0.209	10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:46

Certified Analyses included in this Report

Analyte	Certifications
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Code	Description	Number	Expires
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Reported:
04/20/2017 13:46

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
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TUCSON WATER CHAIN OF CUSTODY

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LOGIN ID: <u>L170433</u>				PRESERVATIVE (HNO3 added in lab)		COMPLIANCE (Y/N)	PROPERTY NAME	ADDRESS	PROPERTY TYPE	COMMENTS	
CLIENT: ADEQ											
PROJECT NAME/FREQUENCY: Public School Lead Screening Program											
PROJECT #: P01210											
SAMPLING DATE: <u>03-21-07</u>				NUMBER OF CONTAINERS		Pb (200.8)	COMPLIANCE (Y/N)	PROPERTY NAME	ADDRESS	PROPERTY TYPE	COMMENTS
SAMPLED BY: print full name <u>TUSD Paul Martinez</u> signature											
SAMPLE #	TIME	LOCATION	SITE								
-01	07:30	Main	01	1	X	N	Grijalva Elem.	1795 W. Prexel Rd.		Drinking Fountain	
-02	07:45	So. Class Rm	02	1	X	N	↓	↓		↓	
-03	07:55	South	03	1	X	N	↓	↓		↓	
-04	08:30	Main	01	1	X	N	Carrillo Magnet	440 S. Main Ave		Drinking	
-05	08:43	Activity Bldg	02	1	X	N	↓	↓			
-06	08:23	Admin Main	01	1	X	N	Valencia M.S.	4400 N. Irvington Rd		Drinking Fountain	
-07	08:48	Pod C	02	1	X	N	↓	↓		↓	
-08	08:55	Pod C Class	03	1	X	N	↓	↓		↓	
-09	09:00	Pod D East	04	1	X	N	↓	↓		↓	
-10	09:15	Pod E	05	1	X	N	↓	↓		↓	
-11	09:20	Pod E Class	06	1	X	N	↓	↓		↓	
-12	09:30	Pod F	07	1	X	N	↓	↓		↓	
-13	09:40	Pod F Class	08	1	X	N	↓	↓		↓	
-14	09:50	Pod H North	09	1	X	N	↓	↓		↓	
-15	10:02	Pod H MPR	10	1	X	N	↓	↓		↓	
COMMENTS:				CONTACT: TINA COOK 225-4673							
SIGNATURE				DATE/TIME				SIGNATURE			
RELINQUISHED BY:				03-28-07 10:57				RECEIVED BY:			
RELINQUISHED BY:				03-28-07 12:12				RECEIVED BY:			
RELINQUISHED BY:				03-28-07 12:21				RECEIVED BY:			

23.2

TUCSON WATER CHAIN OF CUSTODY

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LOGIN ID: <u>L170433</u>				PRESERVATIVE	(HNO3 added in lab)	COMPLIANCE (Y/N)	PROPERTY NAME	ADDRESS	PROPERTY TYPE	COMMENTS	
CLIENT: ADEQ											
PROJECT NAME/FREQUENCY: Public School Lead Screening Program											
PROJECT #: P01210											
SAMPLING DATE:				NUMBER OF CONTAINERS	Pb (200.8)						
SAMPLED BY: print full name <u>TUSD - Raul Martinez</u> signature											
SAMPLE #	TIME	LOCATION	SITE								
14-01	10:10	Pod G	11	1	X	N	Valencia M.S.	4400 W. Irvington		Drinking Fountain	
17-02	10:20	Pod J	12	1	X	N	↓	↓			
-03											
-04											
-05											
-06											
-07											
-08											
-09											
-10											
-11											
-12											
-13											
-14											
-15											
COMMENTS:				CONTACT: TINA COOK 225-4673							
SIGNATURE				DATE/TIME				SIGNATURE			
RELINQUISHED BY:								RECEIVED BY:			
RELINQUISHED BY:				03-28-17 10:57				RECEIVED BY:			
RELINQUISHED BY:				03-28-17 12:12				RECEIVED BY:			

23.2