



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

18 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 L170437, received by the laboratory on 03/28/2017 12:36. 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:
04/18/2017 08:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Front Office	L170437-01	Aqueous	03/21/2017 10:00	03/28/2017 12:36
Breezeway 57	L170437-02	Aqueous	03/21/2017 10:05	03/28/2017 12:36
ClassRm #20	L170437-03	Aqueous	03/21/2017 10:10	03/28/2017 12:36
Quad	L170437-04	Aqueous	03/21/2017 10:30	03/28/2017 12:36
West Wing #60	L170437-05	Aqueous	03/21/2017 10:35	03/28/2017 12:36
Cafe West	L170437-06	Aqueous	03/21/2017 10:40	03/28/2017 12:36
Quad #27	L170437-07	Aqueous	03/21/2017 10:55	03/28/2017 12:36
Rm#11 West W	L170437-08	Aqueous	03/21/2017 10:45	03/28/2017 12:36
Cafe	L170437-09	Aqueous	03/21/2017 07:10	03/28/2017 12:36
Main Front	L170437-10	Aqueous	03/21/2017 07:20	03/28/2017 12:36
CL Rm #11	L170437-11	Aqueous	03/21/2017 07:30	03/28/2017 12:36
RM #22	L170437-12	Aqueous	03/21/2017 07:40	03/28/2017 12:36
Cafe	L170437-13	Aqueous	03/21/2017 08:00	03/28/2017 12:36
Library	L170437-14	Aqueous	03/21/2017 08:10	03/28/2017 12:36
Front Office	L170437-15	Aqueous	03/21/2017 08:15	03/28/2017 12:36
Central Rm 165	L170437-16	Aqueous	03/21/2017 08:20	03/28/2017 12:36
Southeast #166	L170437-17	Aqueous	03/21/2017 08:30	03/28/2017 12:36
Southwest # 171	L170437-18	Aqueous	03/21/2017 08:35	03/28/2017 12:36
Rm #183	L170437-19	Aqueous	03/21/2017 08:45	03/28/2017 12:36
NRRDR-192	L170437-20	Aqueous	03/21/2017 08:55	03/28/2017 12:36
SW RR	L170437-21	Aqueous	03/21/2017 09:15	03/28/2017 12:36

Tucson Water Quality Laboratory



Michael E. Dew, Lab Manager

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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: 04/18/2017 08:12
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Front Office
L170437-01 (Aqueous)

Sampled:
03/21/2017 10:00

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	BC73007	03/30/2017	03/30/2017	EPA 200.8	

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Arizona Department of Environmental Quality
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Phoenix AZ, 85007

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

Reported:
04/18/2017 08:12

Breezeway 57
L170437-02 (Aqueous)

Sampled:
03/21/2017 10:05

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

ClassRm #20
L170437-03 (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	0.00190	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 4401 S. Tucson Estates Pkwy.
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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: 04/18/2017 08:12
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Quad
L170437-04 (Aqueous)

Sampled:
 03/21/2017 10:30

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Phoenix AZ, 85007

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

Reported:
04/18/2017 08:12

West Wing #60
L170437-05 (Aqueous)

Sampled:
03/21/2017 10:35

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Reported:
 04/18/2017 08:12

Cafe West
L170437-06 (Aqueous)

Sampled:
 03/21/2017 10:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00379	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Reported:
 04/18/2017 08:12

Quad #27
L170437-07 (Aqueous)

Sampled:
 03/21/2017 10:55

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00134	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Phoenix AZ, 85007

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

Reported:
04/18/2017 08:12

Rm#11 West W
L170437-08 (Aqueous)

Sampled:
03/21/2017 10:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00340	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Project: Public School Lead Screening Program
 Project Number: P01210
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Reported:
 04/18/2017 08:12

Cafe
L170437-09 (Aqueous)

Sampled:
 03/21/2017 7:10

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

Main Front
L170437-10 (Aqueous)

Sampled:
 03/21/2017 7:20

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/18/2017 08:12

CL Rm #11
L170437-11 (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	0.00463	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/18/2017 08:12

RM #22
L170437-12 (Aqueous)

Sampled:
 03/21/2017 7:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00519	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Cafe
L170437-13 (Aqueous)

Sampled:
 03/21/2017 8:00

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

Library
L170437-14 (Aqueous)

Sampled:
 03/21/2017 8:10

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

Front Office
L170437-15 (Aqueous)

Sampled:
 03/21/2017 8:15

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Project: Public School Lead Screening Program
 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/18/2017 08:12

Central Rm 165
L170437-16 (Aqueous)

Sampled:
 03/21/2017 8:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00192	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 1110 West Washington Street
 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

Southeast #166
L170437-17 (Aqueous)

Sampled:
 03/21/2017 8:30

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 Tucson, AZ 85735
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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:
 04/18/2017 08:12

Southwest # 171
L170437-18 (Aqueous)

Sampled:
 03/21/2017 8:35

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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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 1110 West Washington Street
 Phoenix AZ, 85007

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

Reported:
 04/18/2017 08:12

Rm #183
L170437-19 (Aqueous)

Sampled:
 03/21/2017 8:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00136	0.00100	mg/L	1	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Reported:
 04/18/2017 08:12

NRRDR-192
L170437-20 (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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Reported:
04/18/2017 08:12

SW RR
L170437-21 (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	BC73007	03/30/2017	03/30/2017	EPA 200.8
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Project: Public School Lead Screening Program
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Reported:
 04/18/2017 08:12

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 (BC73007-MS1)		Source: L170437-01		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00983	0.00101	mg/L	0.0101	0.000171	95.6	70-130			
Matrix Spike (BC73007-MS2)		Source: L170437-11		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.0143	0.00101	mg/L	0.0101	0.00463	96.2	70-130			
Matrix Spike (BC73007-MS3)		Source: L170437-21		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00985	0.00101	mg/L	0.0101	0.000198	95.6	70-130			
Matrix Spike (BC73007-MS4)		Source: L170436-03		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00968	0.00101	mg/L	0.0101	0.000173	94.1	70-130			
Matrix Spike (BC73007-MS5)		Source: L170436-13		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.0103	0.00101	mg/L	0.0101	0.000561	96.3	70-130			

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 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/18/2017 08:12

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 (BC73007-MS6)		Source: L170434-04		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.0102	0.00101	mg/L	0.0101	0.000292	98.1	70-130			
Matrix Spike Dup (BC73007-MSD1)		Source: L170437-01		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00986	0.00101	mg/L	0.0101	0.000171	95.9	70-130	0.349	10	
Matrix Spike Dup (BC73007-MSD2)		Source: L170437-11		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.0143	0.00101	mg/L	0.0101	0.00463	96.2	70-130	0.0211	10	
Matrix Spike Dup (BC73007-MSD3)		Source: L170437-21		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00987	0.00101	mg/L	0.0101	0.000198	95.8	70-130	0.174	10	
Matrix Spike Dup (BC73007-MSD4)		Source: L170436-03		Prepared & Analyzed: 03/30/2017						
Batch BC73007 - EPA 200.7/200.8										
LEAD	0.00967	0.00101	mg/L	0.0101	0.000173	94.0	70-130	0.0627	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:
 04/18/2017 08:12

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
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Matrix Spike Dup (BC73007-MSD5)

Source: L170436-13

Prepared & Analyzed: 03/30/2017

Batch BC73007 - EPA 200.7/200.8

LEAD	0.0103	0.00101	mg/L	0.0101	0.000561	96.6	70-130	0.294	10
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Matrix Spike Dup (BC73007-MSD6)

Source: L170434-04

Prepared & Analyzed: 03/30/2017

Batch BC73007 - EPA 200.7/200.8

LEAD	0.0101	0.00101	mg/L	0.0101	0.000292	97.6	70-130	0.516	10
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(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:
04/18/2017 08:12

Certified Analyses included in this Report

Analyte	Certifications
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Code	Description	Number	Expires
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Project Manager: Water Quality Compliance 5415B-1

Reported:
04/18/2017 08:12

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

Page ____ of ____

LOGIN ID: L170437 CLIENT: ADEQ PROJECT NAME/FREQUENCY: Public School Lead Screening Program PROJECT #: P01210 SAMPLING DATE: 03-21-17 SAMPLED BY: print full name TUSD Chris Jauch signature				PRESERVATIVE (HNO3 added in lab)		NUMBER OF CONTAINERS Pb (200.8)		COMPLIANCE (Y / N)		PROPERTY NAME ADDRESS PROPERTY TYPE COMMENTS					
SAMPLE #	TIME	LOCATION	SITE												
-01	10:00	Front ofc	01	1	X	N	Whitmore Elem	5330 E. Glenn	TUSD	drinking fountain west wall					
-02	10:05	Breezeway 57	02	1	X	N				drinking fountain lobby					
-03	10:10	Class Rm #20	03	1	X	N				Fountain in Sink Rm 116					
-04	10:30	Quad Bunch	04	1	X	N				Quad DR-305 Fountain Rm 116					
-05	10:35	West Wing #40	05	1	X	N				drinking Fountain Rm 171					
-06	10:40	Cafe West	06	1	X	N				Fountain - #183					
-07	10:55	Quad #27	07	1	X	N				drinking fountain by 192					
-08	10:45	Rm #11 West W	08	1	X	N				Fountain by 159					
-09	07:10	Cafe	01	1	X	N	Cragin Elem	2945 N. Tucson Blvd		drinking fountain of wall					
-10	07:20	Main Front	02	1	X	N				drinking fountain of wall					
-11	07:30	CL Rm #11	03	1	X	N				drinking fountain in sink					
-12	07:40	Rm #22	04	1	X	N				drinking fountain sink					
-13	08:00	Cafe	01	1	X		Davidson ES	3950 E. Paradise Falls		drinking fountain in sink					
-14	08:10	library	02	1	X					drinking fountain lobby					
-15	08:15	Front ofc	03	1						drinking fountain Rm 57					
COMMENTS: CONTACT: TINA COOK 225-4673															
SIGNATURE				DATE/TIME				SIGNATURE				DATE/TIME			
RELINQUISHED BY:				03-28-17 10:55				RELINQUISHED BY:				03-28-17 09:04			
RELINQUISHED BY:				03-28-17 12:29				RELINQUISHED BY:				03-28-17 09:05			
RELINQUISHED BY:								RELINQUISHED BY:				03/28/17 1236			

23.8°C

TUCSON WATER CHAIN OF CUSTODY

Page ____ of ____

LOGIN ID: <u>L170437</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>03-21-17</u>				NUMBER OF CONTAINERS	Pb (200.8)										
SAMPLED BY: print full name <u>TUSD Chris Jauch</u> signature															
SAMPLE #	TIME	LOCATION	SITE												
16-01	08:20	Central Rm #165	04	1	X	N	Davidson ES	3950 E. Paradise Hills	TUSD	drinking fountain in sink					
17-02	08:30	Southeast #166	05	1	X	N				drinking fountain in sink					
18-03	08:35	Southwest #171	06	1	X	N				↓					
19-04	08:45	Rm #183	07	1	X	N				drinking fountain in sink					
20-05	08:55	NRDR-42	08	1	X	N				↓					
21-06	09:15	SW RR	09	1	X	N				↓					
-07															
-08															
-09															
-10															
-11															
-12															
-13															
-14															
-15															
COMMENTS:				CONTACT: TINA COOK 225-4673											
SIGNATURE				DATE/TIME				SIGNATURE				DATE/TIME			
RELINQUISHED BY:				03-28-17 10:55				RECEIVED BY:				03-28-17 09:06			
RELINQUISHED BY:				03-28-17 12:29				RECEIVED BY:				03-28-17 09:06			
RELINQUISHED BY:								RECEIVED BY:				03/28/17 12:36			

23.8°C

03/28/17

03-28-17