

Work Order No.: 16I1852

October 21, 2016

Adelaide Environmental Health 1511 Route 22, Suite C24 Brewster, NY 10509

Re: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive

Dear John Soter:

Microbac Laboratories, Inc. - Chicagoland Division received 21 sample(s) on 9/28/2016 9:25:24AM for the analyses presented in the following report as Work Order 16I1852.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Ron Misiunas

Director of Laboratory Services



WORK ORDER SAMPLE SUMMARY

Date: Friday, October 21, 2016

Client: Adelaide Environmental Health

Project: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive

Lab Order: 16l1852

Lab Sample ID	Client Sample ID	Tag Number Collection Date	Date Received
1611852-01	16-117-PR-LES-BF-051	1ST Floor Nurses Offic 09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-02	16-117-PR-LES-BF-052	1ST Floor 8E B/G Toile 09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-03	16-117-PR-LES-BF-053	1ST Floor Faculty Loui09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-04	16-117-PR-LES-BF-054	1ST Floor 10A Room 1/09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-05	16-117-PR-LES-BF-055	1ST Floor 12A Room 1:09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-06	16-117-PR-LES-BF(A)-056	1ST Floor 12B Girls Toi09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-07	16-117-PR-LES-BF(B)-057	1ST Floor 12B Girls Toi09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-08	16-117-PR-LES-BF(C)-058	1ST Floor 12B Girls Toi09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-09	16-117-PR-LES-BF(A)-059	1ST Floor 12C Boys To09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-10	16-117-PR-LES-BF(B)-060	1ST Floor 12C Boys To09/24/2016 00:00	9/30/2016 6:13:04PM
1611852-11	16-117-PR-LES-BF(C)-61	1ST Floor 12C Boys To09/24/2016 00:00	9/30/2016 6:13:05PM
16 1852-12	16-117-PR-LES-CF-62	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-13	16-117-PR-LES-CF-63	1ST Floor Classroom 409/24/2016 00:00	9/30/2016 6:13:05PM
1611852-14	16-117-PR-LES-CF-64	1ST Floor Classroom 509/24/2016 00:00	9/30/2016 6:13:05PM
1611852-15	16-117-PR-LES-CF-65	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-16	16-117-PR-LES-CF-66	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-17	16-117-PR-LES-CFF-67	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-18	16-117-PR-LES-CFF-68	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-19	16-117-PR-LES-CFF-69	1ST Floor Classroom 109/24/2016 00:00	9/30/2016 6:13:05PM
1611852-20	16-117-PR-LES-CF(A)-070	1ST Floor Classroom 209/24/2016 00:00	9/30/2016 6:13:05PM
1611852-21	16-117-PR-LES-CF(B)-071	1ST Floor Classroom 209/24/2016 00:00	9/30/2016 6:13:05PM



CASE NARRATIVE Date: Friday, October 21, 2016

Client: Adelaide Environmental Health

Project: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive

Lab Order: 16l1852

The Matrix Spike Duplicate performed on the following sample failed the precision criteria for lead. The accuracy criteria were met by both the Matrix Spike and Matrix Spike Duplicate. This data is indicative of a bias related to

sample matrix.

<u>Laboratory ID</u> <u>Sample Name</u>

16I1852-01 16-117-PR-LES-BF-051



Analytical Results

Client: Client Project:	Adelaide En Lincoln Aver		Work Receiv	Order: 1611852 ved: 09/30/2016 18:13		
Analyses	Certs	Result	Units Qu	al Analyzed	Tech	Method
01 16-117-PR-LE	ES-BF-051 - 1ST F	loor Nurse	s Office Bathroom Sink		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	3.7	ug/L	10/13/2016 13:49	RPL	EPA 200.8 Rev 5.4
02 16-117-PR-LE	ES-BF-052 - 1ST F	Floor 8E B/0	G Toilet Sink		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.8	ug/L	10/13/2016 13:50) RPL	EPA 200.8 Rev 5.4
03 16-117-PR-LE	ES-BF-053 - 1ST F	loor Facul	ty Lounge Bathroom Sink	(Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.8	ug/L	10/13/2016 13:5	1 RPL	EPA 200.8 Rev 5.4
04 16-117-PR-LE	ES-BF-054 - 1ST F	Floor 10A R	oom 10 Bathroom Sink		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.4	ug/L	10/13/2016 13:5	1 RPL	EPA 200.8 Rev 5.4
05 16-117-PR-LE	ES-BF-055 - 1ST F	Floor 12A R	oom 12 Bathroom Sink		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	2.0	ug/L	10/13/2016 13:52	2 RPL	EPA 200.8 Rev 5.4
06 16-117-PR-LE	ES-BF(A)-056 - 1S	T Floor 12E	3 Girls Toilet Sink Left		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.6	ug/L	10/13/2016 13:54	4 RPL	EPA 200.8 Rev 5.4
07 16-117-PR-LE	ES-BF(B)-057 - 1S	T Floor 12E	3 Girls Toilet Sink Middle		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.7	ug/L	10/13/2016 13:5	5 RPL	EPA 200.8 Rev 5.4
08 16-117-PR-LE	ES-BF(C)-058 - 1	ST Floor 12	B Girls Toilet Sink Right		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.5	ug/L	10/13/2016 13:5	7 RPL	EPA 200.8 Rev 5.4
09 16-117-PR-LE	ES-BF(A)-059 - 1S	T Floor 120	C Boys Toilet Sink Left		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	< 1.0	ug/L	10/13/2016 13:5	7 RPL	EPA 200.8 Rev 5.4
10 16-117-PR-LE	ES-BF(B)-060 - 1S	T Floor 120	C Boys Toilet Sink Middle		Colle	ected: 09/24/2016 00:00
Lead	gdmnoi	1.5	ug/L	10/13/2016 13:58	3 RPL	EPA 200.8 Rev 5.4

Friday, October 21, 2016

Date:



Analytical Results						Date:		Friday, October 21, 2016		
11	16-117-PR-LES-BF(C)	-61 - 1S7	Floor 12C Boys	Toilet Sink Right			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	3.4	ug/L	10/13/2016 13	3:59	RPL	EPA 200.8 Rev 5.4		
12	16-117-PR-LES-CF-62	- 1ST Flo	oor Classroom 1 S	ink			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	13	ug/L	10/13/2016 13	3:59	RPL	EPA 200.8 Rev 5.4		
13	16-117-PR-LES-CF-63	- 1ST Flo	oor Classroom 4 S	ink			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	1.6	ug/L	10/13/2016 14	:00	RPL	EPA 200.8 Rev 5.4		
14	16-117-PR-LES-CF-64	- 1ST Flo	oor Classroom 5 S	ink			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	12	ug/L	10/13/2016 14	:01	RPL	EPA 200.8 Rev 5.4		
15 16-117-PR-LES-CF-65 - 1ST Floor Classroom 13 Sink							Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	1.4	ug/L	10/13/2016 14	:01	RPL	EPA 200.8 Rev 5.4		
16	16-117-PR-LES-CF-66	- 1ST Flo	oor Classroom 15	Fountain			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	6.5	ug/L	10/13/2016 14	:05	RPL	EPA 200.8 Rev 5.4		
17Ri	16-117-PR-LES-CFF-6	7 - 1ST F	Floor Classroom 16	6 Fountain			Colle	cted: 09/24/2016 00:00		
Lead		dgimno	20	ug/L	10/12/2016 0:	:47	SJE	EPA 200.8 Rev 5.4		
18	16-117-PR-LES-CFF-6	8 - 1ST F	Floor Classroom 17	7 Fountain			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	4.9	ug/L	10/13/2016 14	:05	RPL	EPA 200.8 Rev 5.4		
19	16-117-PR-LES-CFF-6	9 - 1ST F	Floor Classroom 18	3 Fountain			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	1.7	ug/L	10/13/2016 14	:06	RPL	EPA 200.8 Rev 5.4		
20	16-117-PR-LES-CF(A)-	070 - 1S	T Floor Classroom	າ 20 Sink Left			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	1.2	ug/L	10/13/2016 14	:06	RPL	EPA 200.8 Rev 5.4		
21	16-117-PR-LES-CF(B)-	071 - 1S	T Floor Classroom	n 20 Sink Right			Colle	cted: 09/24/2016 00:00		
Lead		gdmnoi	< 1.0	ug/L	10/13/2016 14	:07	RPL	EPA 200.8 Rev 5.4		



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL

b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL

b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

ICSA = Interference Check Standard "A" BLK = Method Blank DUP = Method Duplicate ICSAB = Interference Check Standard "AB" BS = Method Blank Spike BSD = Method Blank Spike Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate ICB = Initial Calibration Blank ICV = Initial Calibration Verification CCB = Continuing Calibration Blank CCV = Continuing Calibration Verification CRL = Client Required Reporting Limit OPR = Ongoing Precision and Recovery Standard SD = Serial Dilution

PDS = Post Digestion Spike

QCS = Quality Control Standard

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- ⁹ Indiana SDH chemical analysis of drinking water (#C-45-03)
- i Kansas Dept Health & Env. NELAP (#E-10397)
- m New York State Department of Health Wadsworth (#12006)
- ⁿ Pennsylvania Department of Environmental Protect (#68-04863)
- Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)



COOLER INSPECTION Client Name: Adelaide Environmental Health	Date: Friday, October 21, 2016 Date/Time Received: 09/28/2016 09:25						
Work Order Number: 16I1852	Received by: Nicole Rainwater						
Checklist completed by: 9/30/2016 6:13:04PM Dave Bryant	Reviewed by: 10/4/2016 KAZ						
Carrier Name: UPS							
Cooler ID: Default Cooler	Container/Temp Blank Temperature: 21.4° C						
After-Hour Arrival? Shipping container/cooler in good condition? Custody seals intact on shipping container/cooler? Custody seals intact on sample containers? COC present? COC included sufficient client identification? COC included sufficient sample collector information? COC included a sample description? COC agrees with sample labels? COC identified the appropriate matrix? COC included date of collection? COC included time of collection? COC identified the appropriate number of containers? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? If the samples are preserved, are the preservatives identified?	Yes No ✓ Not Present ✓ Yes No Not Present ✓ No Yes Not No Not Present ✓ No Yes Not No Not No Not No Yes Not No Not No Not No No No Yes Not No Not No No						
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace? Cooler Comments:	Yes No No Yes No No Yes No No No No No No No No No N						

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.



Sample ID	Client Sample ID	Comments
16I1852-01	16-117-PR-LES-BF-051	
16I1852-02	16-117-PR-LES-BF-052	
16I1852-03	16-117-PR-LES-BF-053	
16I1852-04	16-117-PR-LES-BF-054	
16I1852-05	16-117-PR-LES-BF-055	
16I1852-06	16-117-PR-LES-BF(A)-056	
16I1852-07	16-117-PR-LES-BF(B)-057	
16I1852-08	16-117-PR-LES-BF(C)-058	
16I1852-09	16-117-PR-LES-BF(A)-059	
16I1852-10	16-117-PR-LES-BF(B)-060	
16I1852-11	16-117-PR-LES-BF(C)-61	
16I1852-12	16-117-PR-LES-CF-62	
16I1852-13	16-117-PR-LES-CF-63	
16I1852-14	16-117-PR-LES-CF-64	
16I1852-15	16-117-PR-LES-CF-65	
16I1852-16	16-117-PR-LES-CF-66	
16I1852-17	16-117-PR-LES-CFF-67	
16I1852-18	16-117-PR-LES-CFF-68	
16I1852-19	16-117-PR-LES-CFF-69	
16I1852-20	16-117-PR-LES-CF(A)-070	
16I1852-21	16-117-PR-LES-CF(B)-071	

Adelaide Environmental 1511 Rt 22, Suite C24 Brewster, NY 10509 adelaidelabresults@adelaidellc.com

Lincoln Avenue Elementary School

115 Lincoln Avenue

Pearl River, NY 10965

Field Chain-of-Custody Record

District: Pearl River

Lead in Drinking Water Turn around time: Standard

Adelaide Project # BOCE:16250.05-WA

Page/ of

Lab Project Number:

Date:

9/24/16 P. Conde

Site

52 aide n Av 1201	i can ravei,	141 10303		Inspector: V - Co	nde	<u></u>	<u></u> <u>-</u> -	
	Sample ID		Floor#	Sample Description	Analysis	Matrix	Container	1
Karen R-	LES- BF	<u>-</u> 051		Muses office Outhrom Sink		Drinking	250 ml	0/
Ziolko nenta	LES- BF	- 052	1	8E B/6 Toilet Sink	Lead	Water Drinking	Bottle 250 ml	ر ا راک
WSKI IHea	LES- BF	- 053			Lead	Water Drinking	Bottle 250 ml	ł
E choc			 	Faculty Louise Rathroom Sink	Lead	Water	Bottle	03
<u> </u>	LES- [3F	- 054	 	16A Rusy (U Be hosom Sink	Lead	Drinking Water	250 ml Bottle	04
Karen Ziolkowski Karen Ziolkowski le Environmental Health - Brewster NY Avenue Elementary School 016	LES- BF	<u> </u>		12A Room 12 Octhorn Sink	Lead	Drinking Water	250 ml Bottle	05
R-	LES-BFA	- 056		12BGills Trintsink RT (Hottink no 19124	Lead	Drinking Water	250 ml Bottle	06
R-	LES- 13FB	057		1 1 1 ATO		Drinking	250 ml	U7
16-117-PR-	LES- BFC	- 058		V V V RT	Lead	Water Drinking	Bottle 250 ml	09
16-117-PR-	LES-BFA	- 059			Lead	Water Drinking	Bottle 250 ml	
			 	12 C Mays Toolet Sink LT	Lead	Water	Bottle	09
16-117-PR-	LES- BFO	- 060	 	MID (Water)1/24	Lead	Drinking Water	250 ml Bottle	10
16-117-PR-	LES- BFC	- 061		V V V RT	Lead	Drinking Water	250 ml Bottle	(1
16-117-PR-	LES- CF	- 062		Ciny room / Kayer & Sink		Drinking	250 ml	
16-117-PR-	LES- CF	- 063		Classioon to Fact Sink	Lead	Water Drinking	Bottle 250 ml	(2
			11		Lead	Water Drinking	Bottle	/3
16-117-PR-		- 064	₩	Clessroom 5 Sink	Lead	Water	250 ml Bottle	14
16-117-PR-	LES- CF	- 065		Classroom 13 Sink	Lead	Drinking Water	250 ml Bottle	15
16-117-PR-	LES- CF	- 066	<u></u>	Clisnom 15 Sink	Lead	Drinking Water	250 ml	1
Samnles take	n hv				_ Leau	vvalei	Bottle	l Je

Signature / Date

Samples relinquished by:

Signature / Date

Samples received by:

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Adelaide Environmental 1511 Rt 22, Suite C24 Brewster, NY 10509 adelaidelabresults@adelaidellc.com

Field Chain-of-Custody Record

Page 2 of 2

Lead in Drinking Water Turn around time: Standard

Adelaide Project # BOCE:16250.05-WA

	1 age 01
Lab Project Number:	

Site:

Lincoln Avenue Elementary School

115 Lincoln Avenue Pearl River, NY 10965

District: Pearl River

Date:

Inspector:

Sample ID	Floor#	Sample Description	Analysis	Matrix	Containe	7
16-117-PR-LES- (FF - 06)		Classons 12 Gulia	Allalysis	Drinking	Container 250 ml	$ _{i}$
	-	Classroom 18 fountain	Lead	Water	Bottle	$ ^{t}$
16-117-PR-LES- CFF - 068		Claseroan 17 foundain	Lead	Drinking Water	250 ml	١,
16-117-PR-LES- CFF - 069		11 18 11	Leau	Drinking	Bottle 250 ml	′
		· · · · · · · · · · · · · · · · · · ·	Lead	Water	Bottle	1
16-117-PR-LES- С F Д - 070		11 20 Classroom Rink LT	Lead	Drinking Water	250 ml Bottle	2
16-117-PR-LES- CFB - 07		1' 20 Classroom Sink RT	Lead	Drinking	250 ml	
		20 C1255/001/ 5/7 K	Lead	Water	Bottle	Z
16-117-PR-LES 072			Lead	Drinking	250 ml	2
16-117-PR-LES 073			Lead	Water Drinking	Bottle 250 ml	1
			Lead	Water	Bottle	3
16-117-PR-LES 074				Drinking	250 ml	٠.
16-117-PR-LES 075			Lead	Water Drinking	Bottle	ĺ
16-117-PR-LES 079	 		Lead	Water	250 ml Bottle	l
16-117-PR-LES 076				Drinking	250 ml	İ
			Lead	Water	Bottle	l
16-117-PR-LES 07	<u> </u>		Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES 078			2000	Drinking	250 ml	İ
	- 		Lead	Water	Bottle	l
<u>16-117-PR-LES 079</u>				Drinking	250 ml	ı
16-117-PR-LES 08			Lead	Water Drinking	Bottle 250 ml	ł
16-117-PR-LES 080	<u>' </u>		Lead	Water	250 mi Bottle	ł
16-117-PR-LES 08				Drinking	250 ml	i
			Lead	Water	Bottle	i
16-117-PR-LES 083	:		Lead	Drinking Water	250 ml Bottle	l

Samples taken by

Signature / Date

Samples relinquished by:

Signature / Date

Samples received by:

Signature / Date

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