530 Walnut Street
Philadelphia, PA 19106
215.922.8080

December 12, 2019

Alliance for Progress Charter School
1821 Cecil B. Moore Avenue
Philadelphia, PA 19121

Subject: **Total Lead Testing – Drinking Water Fountains**
Alliance for Progress Charter School
1821 Cecil B. Moore, Philadelphia, Pennsylvania

Dear Administrator:

Urban Engineers, Inc. (Urban) is pleased to submit this total lead in drinking water analysis letter report for the Alliance for Progress Charter School, located on 1821 Cecil B. Moore Avenue, Philadelphia, Pennsylvania (Please refer to Attachment A for a site location map). Urban performed the lead in water sampling on December 2, 2019. The sampling consisted of collecting three drinking water samples from various water fountains located throughout the school complex.

SITE ACTIVITIES AND METHODOLOGY

Urban personnel arrived on site at approximately 10:30 AM to meet school maintenance personnel, who then escorted the Urban employee to each water fountain. 3 single-water fountains were tested throughout the building, for a total of 3 samples. First-draw samples were collected in 250 milliliter wide-mouth, sterile, laboratory-approved jars. Nitrile gloves were worn while sampling, which were changed and discarded after each water sample. Samples were then submitted to Pace Analytical for total lead analyses, EPA Method 200.8.

RESULTS

A laboratory report was provided to Urban outlining the analytical results of the lead testing. Table 1 provides a summary of the results from each water fountain. The complete lab report is provided in Attachment B.

TABLE 1: TOTAL LEAD CONCENTRATION

Sample Name	Floor	Result (ppb)
1821 CBM – WF-1	1st (West Side)	<1.00 (ND*)
1821 CBM – WF-2	2nd (East Side)	<1.00 (ND)
1821 CBM – WF-3	2nd (West Side)	<1.00 (ND)

** ND: non-detectable, as result was below the laboratory reporting limit*

STANDARDS TO COMPARE

Environmental Protection Agency (EPA) **-** In 1974, Congress passed the Safe Drinking Water Act. This law requires EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks are called maximum contaminant level goals (MCLGs). The MCLG for lead is zero. EPA has set this level based on the best available science which shows there is no safe level of exposure to lead.

For most contaminants, EPA sets an enforceable regulation called a maximum contaminant level (MCL) based on the MCLG. MCLs are set as close to the MCLGs as possible, considering cost, benefits and the ability of public water systems to detect and remove contaminants using suitable treatment technologies.

However, because lead contamination of drinking water often results from corrosion of the plumbing materials belonging to water system customers, EPA established a treatment technique rather than an MCL for lead. A treatment technique is an enforceable procedure or level of technological performance which water systems must follow to ensure control of a contaminant.

The treatment technique regulation for lead (referred to as the "*Lead and Copper Rule*") requires water systems to control the corrosivity of the water. The regulation also requires systems to collect tap samples from sites served by the system that are more likely to have plumbing materials containing lead. If more than 10 percent of tap water samples exceed the lead action level of 15 parts per billion (ppb), then water systems are required to take additional actions (https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water#regs).

There were no samples that exceeded the EPA lead action level of 15 ppb.

City of Philadelphia **-** The City of Philadelphia Ordinance - Section A-703.1 of Title 4 of the Philadelphia Code, titled "Special Certificate of Inspection", states that lead in drinking water from a fountain or sink must not exceed 10 ppb.

There were no samples that exceeded the City of Philadelphia action level of 10 ppb.

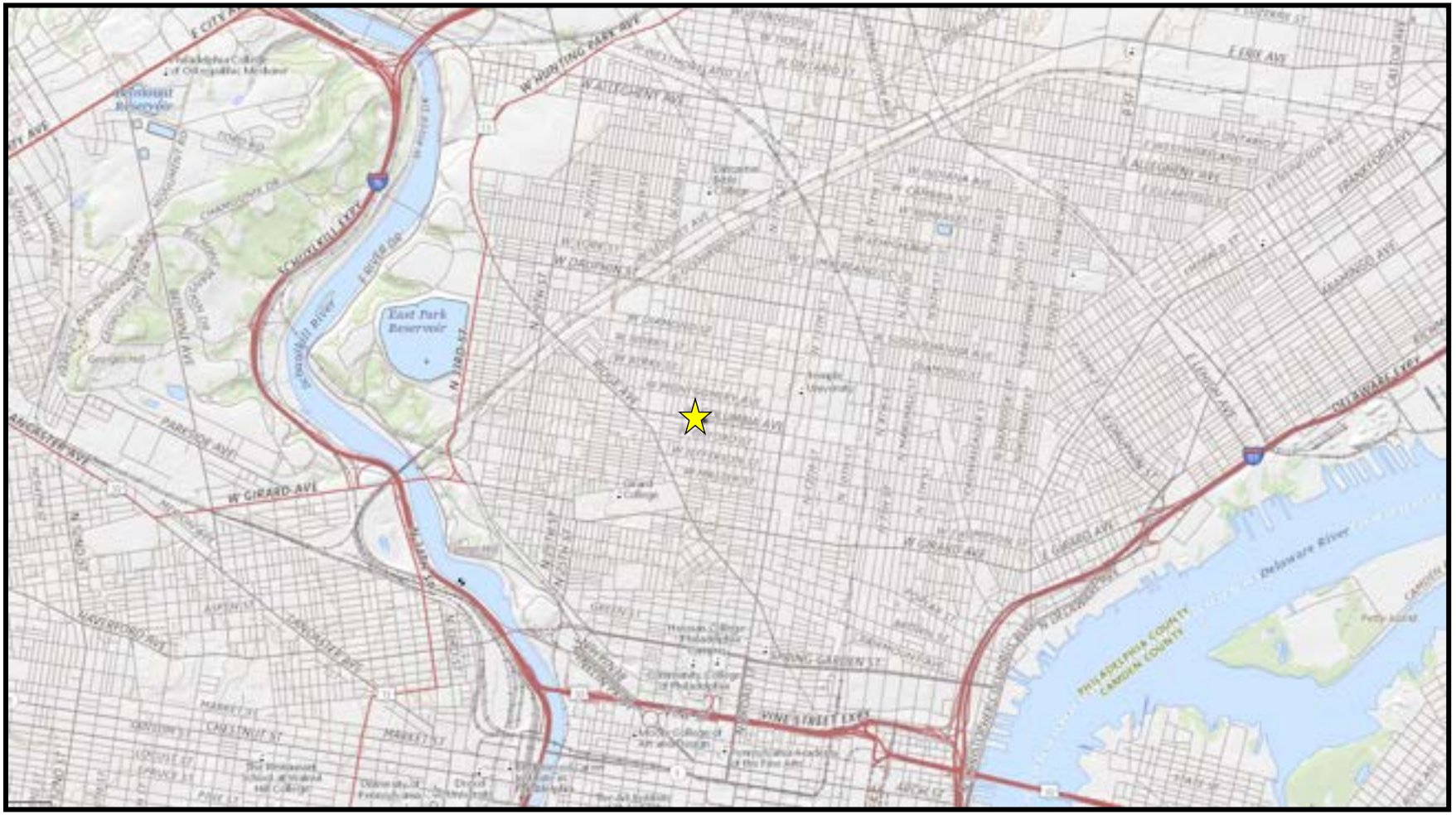
Should you have any questions regarding this report, please feel free to contact me at ajwaters@urbanengineers.com or extension 1273.

Sincerely,

URBAN ENGINEERS, INC.

Angelo J. Waters, PE, LEED AP
Practice Leader, Environmental Services

Attachments:
Attachment A: Site Location Map
Attachment B: Analytical Results



Source: PennDOT GIS

Attachment A: USGS SITE LOCATION MAP

Alliance for Progress Charter School
1821 Cecil B. Moore Avenue
Philadelphia, Pennsylvania

N

★ Approximate Site Location

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 11, 2019

Urban Engineers

Sample Delivery Group:	L1166999
Samples Received:	12/04/2019
Project Number:	
Description:	Alliance - 1821 CBM - Lead Testing

Report To: Mr. Angleo Waters
530 Walnut Street
Philadelphia, PA 19106

Entire Report Reviewed By:

T. Alan Harvill
Project Manager

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1821 CBM - WF-1 L1166999-01 DW

Collected by: Tyler Short
Collected date/time: 12/02/19 10:20
Received date/time: 12/04/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 200.8	WG1392699	1	12/09/19 14:46	12/10/19 15:59	JPD	Mt. Juliet, TN

1821 CBM - WF-2 L1166999-02 DW

Collected by: Tyler Short
Collected date/time: 12/02/19 10:25
Received date/time: 12/04/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 200.8	WG1392699	1	12/09/19 14:46	12/10/19 16:02	JPD	Mt. Juliet, TN

1821 CBM - WF-3 L1166999-03 DW

Collected by: Tyler Short
Collected date/time: 12/02/19 10:30
Received date/time: 12/04/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 200.8	WG1392699	1	12/09/19 14:46	12/10/19 16:05	JPD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	Det. Limit	Reference Limit	Dilution	Analysis	Batch	Analyst
	mg/l		mg/l	mg/l		date / time		
Lead	ND		0.00100	0.0150	1	12/10/2019 15:59	WG1392699	JPD

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	Det. Limit	Reference Limit	Dilution	Analysis	Batch	Analyst
	mg/l		mg/l	mg/l		date / time		
Lead	ND		0.00100	0.0150	1	12/10/2019 16:02	WG1392699	JPD

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	Det. Limit	Reference Limit	Dilution	Analysis	Batch	Analyst
	mg/l		mg/l	mg/l		date / time		
Lead	ND		0.00100	0.0150	1	12/10/2019 16:05	WG1392699	JPD

Method Blank (MB)

(MB) R3480982-1 12/10/19 15:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.000260	0.00100

Laboratory Control Sample (LCS)

(LCS) R3480982-2 12/10/19 15:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	0.0500	0.0511	102	85.0-115	

L1166996-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1166996-05 12/10/19 15:49 • (MS) R3480982-3 12/10/19 15:52 • (MSD) R3480982-4 12/10/19 15:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	ND	0.0511	0.0508	102	102	1	70.0-130			0.617	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.

Urban Engineers
530 Walnut Street
Philadelphia, PA 19106

Billing Information:
Urban Engineers
530 Walnut Street
Philadelphia, PA 19106

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1166999
B125

Report to: Angelo Waters
Email To: ajwaters@urbanengineers.com

Project Description: Alliance - 1821 CBM - Lead Testing
City/State Collected: Philadelphia, PA

Phone: 215-284-3141
Fax:
Client Project #
Lab Project #

Collected by (print): Tyler Short
Site/Facility ID #
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TOT

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Total Lead (250 ml HDPE-NoPres)	Remarks	Sample # (lab only)
1821 CBM - WF-1	Grab	DW		12/2	10:20	1	X		-01
1821 CBM - WF-2	Grab	DW		12/2	10:25	1	X		-02
1821 CBM - WF-3	Grab	DW		12/2	10:30	1	X		-03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __ ____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD SCREEN: <0.5 mR/hr

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	12-2-19	14:55	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	12-2-19	19:55	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
	12-3-19	16:30	

Trip Blank Received: Yes (No) HCL / MeoH TSR

Temp: 3.4 - 3=3.1 °C Bottles Received: 3

Date: 12/4/19 Time: 800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK