



January 13, 2023

American Paradigm Schools
8101 Castor Avenue
Philadelphia, PA
Attn: Ms. Jessica Bowers

Re: Follow-up Lead in Drinking Water Sampling
Lindley Academy Charter School
900 Lindley Avenue
Philadelphia, PA 19141
Project No. 83459

Dear Ms. Bowers:

The Vertex Companies, LLC (VERTEX) is pleased to provide this Letter Report summarizing the follow-up lead in drinking water sampling performed within the Lindley Academy Charter School located at 900 Lindley Avenue in Philadelphia, Pennsylvania (the site).

VERTEX's services were performed on December 30, 2022 during winter break and the early morning hours prior to normal occupancy; thus, no water use for greater than six hours. One (1) sample location was performed based on the elevated concentration previously identified from sampling conducted on June 13, 2022. Sample collection methodology incorporated a 1st draw sample from the location.

Sampling bottle ware was provided by the laboratory. The samples were submitted under chain-of-custody to an NELAP certified laboratory (EMSL Analytical, Inc. of Cinnaminson, New Jersey) and analyzed by inductively coupled plasma – mass spectrometry for lead in drinking water via USEPA Method 200.8.

Sample results were compared to the USEPA National Primary Drinking Water Regulations. The maximum contaminant level goal for lead is zero; which allow for a margin of safety and are non-enforceable public health goals. The maximum contaminant level for lead where treatment techniques would be required is 15 ug/L (Action Level). In addition, results were compared to The School District of Philadelphia's Safe Water Testing Program which has set a safety limit of 10 ug/L for lead in drinking water. Note: micrograms per liter (ug/L) = parts per billion (ppb).

Results for the lead in drinking water sample collected identified the following:

- Sample L-13R (sink in Room 103 – Classroom) yielded a lead concentration of 14.8 ug/L which is below the USEPA Action Level for lead (15 ug/L) yet exceeded the Philadelphia's Safe Water Testing Program Safety Limit for lead (10 ug/L).

Conclusion: Based on the sample result, in accordance with the School District of Philadelphia's Safe Water Testing Program, the water outlet (sink in Room 103) that exceeded the Safety Limit is required to be immediately shut down while an action plan is developed.

The action plan is to be implemented within 30 days and could include:

1. Removal of the outlet
2. Repair to the outlet
3. Application of a filter
4. Replacement of the outlet with a state-of the-art hydration station

As reported, this sink is not in use; therefore, removal of the outlet is recommended.

Limitations:

Professional opinions presented in this report are based on information made available to VERTEX either by review of data provided by others or data obtained by VERTEX personnel.

VERTEX affirms that data gathered and presented by VERTEX in this report was collected in an appropriate manner in accordance with generally accepted guidelines, methods and practices.

Changes in conditions which affect the site can occur over time. Should additional information become available which would affect the status of this report, we reserve the right to amend our opinions and professional judgments.

VERTEX appreciates the opportunity to assist you with respect to this project. Please do not hesitate to contact our office, should you have any questions. Thank you.

Sincerely,
The Vertex Companies, LLC



William Otten
Senior Project Manager

Attachments: Laboratory Result



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

**William Otten
The Vertex Companies, Inc.
2501 Seaport Drive
Suite BH110
Chester, PA 19013**

1/12/2023

Phone: (610) 558-8902

Fax: (610) 558-8904

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/30/2022. The results are tabulated on the attached data pages for the following client designated project:

83459

The reference number for these samples is EMSL Order #012215433. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Owen McKenna, Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012215433

CustomerID: VRTX78

CustomerPO:

ProjectID:

Attn: **William Otten**
The Vertex Companies, Inc.
2501 Seaport Drive
Suite BH110
Chester, PA 19013

Phone: (610) 558-8902
Fax: (610) 558-8904
Received: 12/30/2022 03:15 PM

Project: 83459

Analytical Results

Client Sample Description L-13R
Rm 103 Sink - 1st Floor

Collected: 12/30/2022
8:40:00 AM

Lab ID: 012215433-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	14.8	1.00 µg/L	1/11/2023 AS	1/11/2023 AS 12:32

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results