



## **MIDDLESEX COUNTY STEM CHARTER SCHOOL**

### **LEAD IN DRINKING WATER SAMPLING REPORT**

*PERFORMED FOR:*

**MIDDLESEX COUNTY STEM CHARTER SCHOOL**  
613 CARLOCK AVENUE  
PERTH AMBOY, NJ 08861

*PERFORMED BY:*

**WESTCHESTER ENVIRONMENTAL LLC**  
1248 WRIGHTS LANE  
WEST CHESTER, PA 19380

DECEMBER 2024



December 13, 2024

Mr. David Master  
Middlesex County Stem Charter School  
613 Carlock Ave  
Perth Amboy, NJ 08861

**Re: LEAD IN DRINKING WATER SAMPLING REPORT**

Dear Mr. Master,

Please find enclosed the report for the Lead in Drinking Water Sampling conducted for the Middlesex County Stem Charter School.

The first draw samples analyzed did not exceed the action limit of 15.5 ug/L. Hence, the corresponding flush samples were not analyzed.

If you have any questions, please contact me at 610-431-7545 or email at [cpiccininni@westchesterenvironmental.com](mailto:cpiccininni@westchesterenvironmental.com) or [info@westchesterenvironmental.com](mailto:info@westchesterenvironmental.com).

Sincerely,

Westchester Environmental, LLC

A handwritten signature in black ink, appearing to read 'Christopher Piccininni'.

Christopher Piccininni  
Environmental Specialist

## TABLE OF CONTENTS

### MIDDLESEX COUNTY STEM CHARTER SCHOOL

1.0	EXECUTIVE SUMMARY .....	2
2.0	INTRODUCTION .....	3
3.0	SAMPLING AND ANALYSES .....	4
4.0	SAMPLE RESULTS.....	5
5.0	DISCUSSION & RECOMMENDATIONS.....	6
6.0	DISCLAIMER .....	7



## 1.0 EXECUTIVE SUMMARY

Westchester Environmental, LLC (WCE) was contracted by Mr. David Master of Middlesex County STEM Charter School to conduct lead in water testing for the school district for the 2024-2025 school year.

The water sampling was performed on October 26, 2024 by Christopher Piccininni of Westchester Environmental, LLC.

The objective of the sampling was to determine the lead in water levels associated with the buildings within the school district. During this visit, first draw and flush water samples were collected at the Middlesex County STEM Charter School located at 613 Carlock Avenue, Perth Amboy, NJ 08861.

None of the first draw samples collected exceeded the lead action level of 15.5 microgram/liter (ug/L) or 15.5 parts per billion (ppb), based on the analysis of lead content using U.S. Environmental Protection Agency (EPA) Method 200.8 for lead in drinking water. Hence, the corresponding flush samples were not analyzed.

### **Immediate / Short Term Action Required:**

No immediate action required

*-END OF SECTION-*

## 2.0 INTRODUCTION

The objective of the sampling was to determine the lead in water levels from drinking water outlets located within the Middlesex County STEM Charter School. During this visit, first draw and flush drinking water samples were collected, following a period of no water use within the building for at least eight hours.

The purpose was to sample and analyze drinking water for lead content. Lead in school drinking water continues to be a serious concern, with children in many schools potentially drinking water with dangerous levels of lead. Even when water entering a facility meets all federal and state public health standards for lead concentrations, older plumbing materials found in schools can contribute to elevated lead levels in the drinking water.

The New Jersey Department of Environmental Protection's (NJDEP) action level for lead in drinking water is set at 15. However, for the purposes of compliance, any concentration greater than 15  $\mu\text{g/L}$  (as defined as greater than or equal to 15.5  $\mu\text{g/L}$ ) is considered to exceed the lead action level. If sampling exceeds the level, then the action will need to be taken.

The Environmental Protection Agency (EPA) itself states that 15  $\mu\text{g/L}$  is not a health-based standard, but rather based on what is feasible for water systems to achieve. According to the EPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

On October 8, 2024, the Environmental Protection Agency (EPA) announced the finalization of key improvements to the Lead and Copper Rule (LCR), which introduces new regulations that will reshape how public water suppliers manage lead service lines. These changes are critical to protecting public health and will become effective in late 2027, three years after their publication.

One of the most significant changes is the reduction of the lead action level to 10  $\mu\text{g/L}$ . Water systems that exceed this threshold must take immediate corrective actions, including notifying the public, implementing corrosion control treatments, and expediting lead service line replacement.

*-END OF SECTION-*

### **3.0 SAMPLING AND ANALYSES**

During this sampling event one point of entry sample, three first draw samples, three flush samples and one field blank were collected.

All the collected samples were labeled with a unique identification number and transported to Suburban Laboratory for analysis of lead in drinking water using EPA Method 200.8. Suburban Testing Labs located at 1037F MacArthur Rd, Reading, PA 19605, is a NJ certified Lead in Drinking Water testing facility.

The following guidance documents were followed for sampling:

1. New Jersey Department of Education N.J.A.C. 6A:26
2. The USEPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water as well as the Safe Drinking Water Act of 1974".

*-END OF SECTION-*

## 4.0 SAMPLE RESULTS

The Table below shows the first draw concentrations of lead (microgram per liter) at sampled locations. The NJDEP establishes 15.5 ug/L as the lead action limit. No first draw sample exceeded the action limit of 15.5 micrograms per liter (ug/L).

### Middlesex Stem Charter School

Location Code	Results (ug/L)	Action Level (ug/L)	Lead Hazard (Yes/No)
1 MCSC-GL-POE-Janitors Slop Sink	<1.00	15.5	No
2 MCSC-GL-FP-Kitchen	<1.00	15.5	No
3 MCSC-1FL-WC-Main Office	<1.00	15.5	No
4 MCSC-2FL-WC-O/S Rm 6	<1.00	15.5	No
5 Field Blank	<1.00	15.5	No

*-END OF SECTION*



## 5.0 DISCUSSION & RECOMMENDATIONS

Based on laboratory results of the samples analyzed, none of the first draw samples exceeded the action limit of 15.5 ug/L. Hence, the corresponding flush samples were not analyzed.

### Action Required:

Currently, **no immediate action required**.

*-END OF SECTION-*



## 6.0 DISCLAIMER

The type of samples collected for this assessment are referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location.

No guarantee or warranty of the findings and conclusions is implied within the intent of this report. It is limited to only those items listed in the report and is a snapshot of the conditions existing at the time of the assessment as conditions may vary with time.

WCE assumes no liability with regards to decisions made or the use of any information contained in this report, which is prepared exclusively for and is confidential to the above noted client. These services are designed to provide an analytical tool to assist the client, and the user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC

A handwritten signature in black ink, appearing to read 'Christopher Piccininni'.

Christopher Piccininni  
Environmental Specialist

*-END OF REPORT-*



## **APPENDIX I**

**LEAD IN DRINKING WATER SAMPLING  
CHAINS-OF-CUSTODY & LAB REPORTS**

**Results Report**

Order ID: 4J06359

Westchester Environmental  
1248 Wrights Lane  
West Chester, PA 19380

Project: Central Jersey College Prep Somerset & Perth Amboy  
101 Mettlers Rd  
Somerset, NJ 08873

Attn: Christopher Piccininni

Regulatory ID:

Sample Number: 4J06359-01

Site: CJCP-GF-POE-RR O/S Water Main-F

Sample ID: Flush 001

Collector: CMP

Collect Date: 10/26/2024 6:38 am

Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/07/24	OYK	11/11/24 18:34	RPV
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Sample Number: 4J06359-02

Site: CJCP-1FL-NS-Nurse Sink Rm 630-S

Sample ID: First 002

Collector: CMP

Collect Date: 10/26/2024 6:40 am

Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:04	RPV
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Sample Number: 4J06359-03

Site: CJCP-1FL-BF-Near Rm 630-S

Sample ID: First 003

Collector: CMP

Collect Date: 10/26/2024 6:42 am

Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:10	RPV
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Sample Number: 4J06359-04

Site: CJCP-1FL-FP-Kitchen 1-S

Sample ID: First 004

Collector: CMP

Collect Date: 10/26/2024 6:44 am

Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	1.28	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:13	RPV
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Sample Number: 4J06359-05

Site: CJCP-1FL-FP-Kitchen 2-S

Sample ID: First 005

Collector: CMP

Collect Date: 10/26/2024 6:46 am

Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:14	RPV
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Report Generated On: 11/13/2024 5:23 pm      4J06359  
STL\_Results Revision #3.0      Effective: 05/29/2024



Sample Number: 4J06359-06	Site: CJCP-1FL-NS-Nurse-Sink Rm 216-S	Sample ID: First 006
Collector: CMP	Collect Date: 10/26/2024 6:48 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:16	RPV
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Sample Number: 4J06359-07	Site: CJCP-1FL-WC-O/S Rm 216-Left-S	Sample ID: First 007
Collector: CMP	Collect Date: 10/26/2024 6:50 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:18	RPV
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Sample Number: 4J06359-08	Site: CJCP-1FL-WC-O/S Rm 216-Right-S	Sample ID: First 008
Collector: CMP	Collect Date: 10/26/2024 6:52 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:22	RPV
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Sample Number: 4J06359-09	Site: Field Blank	Sample ID: First 009
Collector: CMP	Collect Date: 10/26/2024 6:54 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:24	RPV
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Sample Number: 4J06359-10	Site: MCSC-GL-POE-Janitors Slop Sink-F	Sample ID: Flush 010
Collector: CMP	Collect Date: 10/26/2024 7:50 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/07/24	OYK	11/11/24 18:45	RPV
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Sample Number: 4J06359-11	Site: MCSC-GL-FP-Kitchen-S	Sample ID: First 011
Collector: CMP	Collect Date: 10/26/2024 7:52 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:26	RPV
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Sample Number: 4J06359-12	Site: MCSC-1FL-WC-Main Office-S	Sample ID: First 012
Collector: CMP	Collect Date: 10/26/2024 7:54 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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**Metals**

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/01/24	RPV	11/04/24 13:27	RPV
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Report Generated On: 11/13/2024 5:23 pm      4J06359  
 STL\_Results   Revision #3.0      Effective: 05/29/2024

**SUBURBAN TESTING LABS**

1037F MacArthur Road, Reading, PA 19605   Phone: 610-375-TEST   Fax: 610-375-4090   [suburbantestinglabs.com](http://suburbantestinglabs.com)



PA DEP # 06-00208  
NJDEP# PA081



Sample Number: 4J06359-13	Site: MCSC-2FL-WC-O/S Rm 6-S	Sample ID: First 013
Collector: CMP	Collect Date: 10/26/2024 7:56 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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## Metals

Lead	< 1.00	µg/L	EPA 200.8	1.00		1	11/01/24	RPV	11/04/24 13:29	RPV
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Sample Number: 4J06359-14	Site: Field Blank-S	Sample ID: First 014
Collector: CMP	Collect Date: 10/26/2024 7:58 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
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## Metals

Lead	< 1.00	µg/L	EPA 200.8	1.00		1	11/01/24	RPV	11/04/24 13:30	RPV
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## Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

\**pH, Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's NELAP Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate usability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

## Reviewed and Released By:

Lauren Ulle

Project Manager I

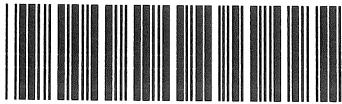
Report Generated On: 11/13/2024 5:23 pm      4J06359  
STL\_Results   Revision #3.0      Effective: 05/29/2024

**SUBURBAN TESTING LABS**

1037F MacArthur Road, Reading, PA 19605   Phone: 610-375-TEST   Fax: 610-375-4090   [suburbantestinglabs.com](http://suburbantestinglabs.com)



PA DEP # 06-00208  
NJDEP # PA081



4J06359  
Lauren Ulle

COC Pg 1



TESTING LABS

of Custody Record

1037F MacArthur Road, Reading, PA 19605  
610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

TAT (Check One) Standard 24hr 48hr 72hr Other

Client Name:	Westchester Environmental LLC.			Project Name:	Central Jersey College Prep				
Address:	1248 Wrights Lane	Phone:	610-431-7545	Address:	Somerset & Perth Amboy				
	West Chester, PA 19380	Email:	cpiccininni@westchesterenvironmental.com		101 Mettlers Rd, Somerset, NJ 08873				
Contact Name:	Chris Piccininni			Payment / P.O. Info:					

Comments:

Flush / First Draw	Location Code	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample Description / Site ID
Flush	CJCP-GF-POE-RR o/s Water Main	10/26/24	6:38AM	CMP	001	Pb EPA 200.8	1	PW	G	P	H	POE-Girls RR o/s Water Main
First	CJCP-1FL-NS-Nurse Sink Rm 630	10/26/24	06:40 AM	CMP	002	Pb EPA 200.8	1	PW	G	P	H	Nurse Office Rm 630
First	CJCP-1FL-BF-Near Rm 630	10/26/24	06:42 AM	CMP	003	Pb EPA 200.8	1	PW	G	P	H	BF near Rm 630
First	CJCP-1FL-FP-Kitchen 1	10/26/24	06:44 AM	CMP	004	Pb EPA 200.8	1	PW	G	P	H	Kitchen 1
First	CJCP-1FL-FP-Kitchen 2	10/26/24	06:46 AM	CMP	005	Pb EPA 200.8	1	PW	G	P	H	Kitchen 2
First	CJCP-1FL-NS-Nurse Sink Rm 216	10/26/24	06:48 AM	CMP	006	Pb EPA 200.8	1	PW	G	P	H	Nurse Office Rm 216
First	CJCP-1FL-WC-o/s Rm 216 - Left	10/26/24	06:50 AM	CMP	007	Pb EPA 200.8	1	PW	G	P	H	WC o/s Rm 216
First	CJCP-1FL-WC-o/s Rm 216 - Right	10/26/24	06:52 AM	CMP	008	Pb EPA 200.8	1	PW	G	P	H	WC o/s Rm 216
First	Field Blank	10/26/24	06:54 AM	CMP	009	Pb EPA 200.8	1	PW	G	P	H	Field Blank
Flush	MCSC-GL-POE-Janitors Slop Sink	10/26/24	7:50AM	CMP	010	Pb EPA 200.8	1	PW	G	P	H	POE- Ground Floor Janitors Slop Sink

Relinquished by:

Date: 10/28/24  
Time: 8:00 AM

Received By:

Date: 10/28/24 Temp °C:

Relinquished by:

Date: 10/28/24 Temp °C:  
Time: Acceptable Y / N

Received in Lab By:

Date: 10/28/24 Temp °C: 15°  
Time: Acceptable Y / N

Sample Conditions		Matrix Key		Bottle Type Key	
Submitted w/ CCC	Y / N	NPW = Non-Potable Water Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l) PW = Potable Water (not for SWDA compliance) SWDA = Safe Drinking Water Act Potable Sample	Y / N	P = Plastic G = Glass O= Other	
Number of containers match number on CCC?	Y / N				
All containers intact	Y / N				
Tests within holding times	Y / N	Sample Type Key	SWDA Sample Type	Preservative Key	
40 ml. VOA vials free of headspace?	Y / N	G = Grab 8 HC = 8 Hour Composite 24 HC = 24 Hour Composite	D = Distribution E = Entry Point R = Raw C = Check S = Special M = Maximum Residence	H = Sodium Thiosulphate A = Ascorbic Acid C = HCl H <sub>2</sub> SO <sub>4</sub> O = Other	H = HNO <sub>3</sub> S = NaOH NA = None Required

10/28 sum up in HNO<sub>3</sub> pH 2 ms 10/28/24

