



healthAIR - Industrial Hygiene Services cleanWATER - Consulting & Testing Services safeEARTH - Hazardous Waste & Recycling Services

November 18, 2022

Mr. Bernie Bowers Operations Supervisor Wyandotte Public Schools 639 Oak Street Wyandotte, Michigan 48192 Bowersb@wy.k12.mi.us

RE: AEG Project # AE220046

Lead Drinking Water Sampling JoBrighton Skill Center

Dear Mr. Bowers:

Pursuant to the request of Wyandotte Public Schools, Arch Environmental Group, Inc. (AEG) collected six (6) representative first draw drinking water lead samples on November 5, 2022, at JoBrighton Skill Center during a normal usage period.

#### General Information about Lead

There is no federal law requiring testing of drinking water in schools and childcare facilities, except for those that have and/or operate their own public water system and therefore are subject to comply with the Safe Drinking Water Act (SDWA). Drinking water programs are conducted on a voluntary basis.

#### Lead enters drinking water:

#### 1. Through Corrosion

Most lead gets into drinking water after the water leaves the local well or treatment plant and comes into contact with plumbing materials containing lead. These include lead pipe and lead solder (commonly used until 1986) as well as faucets, valves, and other components made of brass. The physical/chemical interaction that occurs between the water and plumbing is referred to as corrosion. The extent to which corrosion occurs contributes to the amount of lead that can be released into the drinking water.

#### 2. Faucet Aerators

Many taps that are used to provide water for human consumption have an aerator as part of the faucet assembly. Screens are not intended to remove contaminants in the water but may trap sediment or debris as water passes through the faucet. Lead bearing sediment may end up in drinking water from physical corrosion of leaded solder and can build up in the aerator over time.

#### 3. Galvanized Piping

Additionally, galvanized pipes are old iron pipes that were installed in many homes built before the 1960s. Over many years, old corrosion scales build up inside the walls of galvanized pipes. These pipes can cause discolored water and pressure issues. Galvanized pipes can also release lead in water if you have or ever have had a lead service line.

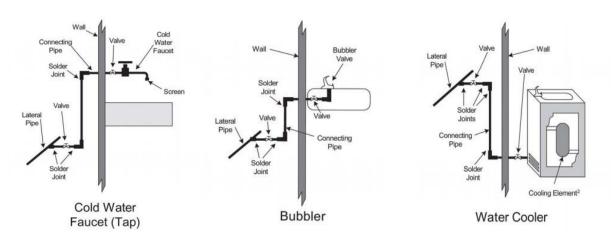
#### 4. Brass Pipes, Faucets Fittings and Valves

Brass used prior to 2014 to deliver drinking water can contribute to lead levels at the tap. Lead has long been used in the foundry process to make brass castings pressure tight. Lead is sometimes added in concentrations of about 2%.

#### **Action Levels**

The Lead and Copper Rule (LCR) is a treatment technique rule. Instead of setting a maximum contaminant level (MCL) for lead or copper, the rule requires public water systems to take certain actions to minimize lead and copper in drinking water. The Action Level for lead is 15 ug/L (15 ppb). Beginning January 1, 2025, the action level for lead in the State of Michigan will be lowered to 12 ug/L (12 ppb). In August 2016, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) recommended school districts use the contaminate level goal of 5 ug/L (5 ppb). Finally, in May of 2019, The American Academy of Pediatrics called for new federal standards to ensure water lead concentrations do not exceed 1 ug/L (1 ppb). For this sampling event, the district shall utilize 12 ug/L (ppb) as the Action Level.

#### **Common Drinking Water Outlets**



#### **Collection Procedures**

All water samples were collected utilizing 250 milliliter (mL) sample bottles as recommended in the August 1, 2016, Version 3.0 "EGLE Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies". Sample results are representative of the specific fixture sampled and do not represent the distribution system or other fixtures.

#### First Draw Sampling:

AEG collected first draw samples. A first draw is the water that is the first to come out of the tap after the period of 8-24 hours of inactivity.

All locations sampled identified lead below the 12 ug/L Action Level. No further action is recommended at this time.

If you have any questions regarding the report, please feel free to contact the cleanWATER team at (248) 426-0165 [office].



Sincerely,

Arch Environmental Group, Inc. Environmental Services

Victoria Heed

Consultant, D-5 Waterworks Operator #22152

Attachments: Results Table

Analytical Results & Chain of Custody





# Wyandotte Public Schools Drinking Water Analysis Project Number: AE220046

#### JoBrighton Skill Center

Date of Sampling: November 5, 2022

Sampler: Zachary Fortin

Sample #	Location	Type <sup>1</sup>	Time Collected	District Lead Action Level (ug/L) <sup>2</sup>	I I AAN KACIIITC		POU Filter Present Y/N	Filter Date/Color	Notes
JoBrighton-01	Hallway Next to Room 34, Right of Two Fixtures, Hydration Station, Bottle Fill	HS	1:24 PM	12	ND <sup>3</sup>	Υ	Y	Red	Initial First Draw
JoBrighton-02	Cafeteria Adjacent to Courtyard, Hydration Station, Bottle Fill	HS	1:34 PM	12		Y	Y	Green	Initial First Draw
JoBrighton-03	Room 18, Faucet	F	1:47 PM	12	1	N	N	N/A	Initial First Draw
JoBrighton-04	Hallway Adjacent to Room 17, Bubbler	В	1:40 PM	12	1	N	N	Unknown	Initial First Draw

<sup>1)</sup> Type: B = Bubbler, HS = Hydration Station, BT = Single Bottle Fill, WC = Single Water Cooler, C = Combination Sink, F = Faucet, KF = Kitchen Faucet, I = Ice Machine, KK = Kitchen Kettle, PC = Plumed Coffee Machine, G = Glass Filler

<sup>2)</sup> https://www.epa.gov/sites/default/files/2016-06/documents/npwdr\_complete\_table.pdf

<sup>3)</sup> ND = Non-Detected at Reported Detection Limit of 1 ug/L



# Wyandotte Public Schools Drinking Water Analysis Project Number: AE220046

JoBrighton Skill Center

Date of Sampling: November 5, 2022

Sampler: Zachary Fortin

Sample #	Location	Type <sup>1</sup>	Time Collected	District Lead Action Level (ug/L) <sup>2</sup>	Lead Results	Aerator Present Y/N	POU Filter Present Y/N	Filter Date/Color	Notes
JoBrighton-06	Hallway Adjacent to Cafeteria, Hydration Station, Bottle Fill	HS	12:44 PM	12	ND	Υ	Υ	Red	Initial First Draw
JoBrighton-10	Room 16, Left Faucet	F	1:08 PM	12	2	Υ	N	N/A	Initial First Draw

<sup>1)</sup> Type: B = Bubbler, HS = Hydration Station, BT = Single Bottle Fill, WC = Single Water Cooler, C = Combination Sink, F = Faucet, KF = Kitchen Faucet, I = Ice Machine, KK = Kitchen Kettle, PC = Plumed Coffee Machine, G = Glass Filler

<sup>2)</sup> https://www.epa.gov/sites/default/files/2016-06/documents/npwdr\_complete\_table.pdf

<sup>3)</sup> ND = Non-Detected at Reported Detection Limit of 1 ug/L



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

November 16, 2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Subject: JoBrighton Skill Center IFD

AE220046 - WPS

Dear Ms. Sendra:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 11/09/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 85914 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 11/05/2022 13:24 Submit Date/Time: 11/09/2022 13:40

Report Date: 11/16/2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

85914

Project Name:

JoBrighton Skill Center IFD

Project Number:

**AE220046 - WPS** 

BA Sample ID **CS03288** 

Sample ID: JoBrighton-01 Hallway Next Room 34 Right 2 Fixtures HydStaBF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	Not detected u	g/L	1	15	EPA 200.8 rev5.4	15:02	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date

11/16/2022



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 11/05/2022 13:34 Submit Date/Time: 11/09/2022 13:40

Report Date: 11/16/2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #
BA Sample ID

85914

CS03289

Project Name:

JoBrighton Skill Center IFD

Project Number: AI

AE220046 - WPS

Sample ID:

JoBrighton-02 Cafeteria Adjacent Courtyard HydSta BF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	Not detected 1	ıg/L	1	15	EPA 200.8 rev5.4	15:05	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date 11/16/2022



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 11/05/2022 Submit Date/Time: 11/09/2022

Report Date: 11/16/2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #
BA Sample ID

85914

CS03290

Project Name:

JoBrighton Skill Center IFD

Project Number:

**AE220046 - WPS** 

Sample ID:

JoBrighton-03 Room 18 Faucet

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	15:07	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

13:47

13:40

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date 11/16/2022



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 11/05/2022 13:40 Submit Date/Time: 11/09/2022 13:40 Report Date:

11/16/2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

85914

Project Name:

JoBrighton Skill Center IFD

Project Number:

AE220046 - WPS

BA Sample ID CS03291

Sample ID: JoBrighton-04 Hallway Adjacent Room 17 Bubbler

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	15:09	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date 11/16/2022



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 11/05/2022 12:44 Submit Date/Time: 11/09/2022 13:40

Report Date: 11/16/2022

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #
BA Sample ID

85914

CS03292

Project Name:

JoBrighton Skill Center IFD

Project Number: AE220046 - WPS

Sample ID: JoBrighton-06 Hallway Adjacent Cafeteria HydSta BF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	<b>Analysis Date</b>
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	Not detected	ıg/L	1	15	EPA 200.8 rev5.4	15:12	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date

11/16/2022



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date/Time: Submit Date/Time:

Report Date:

11/05/2022 11/09/2022 11/16/2022 13:08 13:40 Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

85914

Project Name:

JoBrighton Skill Center IFD

Project Number:

**AE220046 - WPS** 

BA Sample ID **CS03293** 

Sample ID: JoBrighton-10 Room 16 Left Faucet

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	<b>Analysis Date</b>
Drinking Water Metal Analysis								
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	15:37	LT	11/15/2022

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date

11/16/2022

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2) %	JoBrighton-02 Cafeteria Adjacent to courtyard, Hydration Station, Bottle Fill	ırtyard,	13:34 11/5/2022	2022			×				Δ	X wa								
3)	JoBrighton-03 Room 18, Faucet		13:47 11/5/2022	2022			×				Ω	X Ma								
4) 94	JoBrighton-04 Hallway adjacent to room 17, bubbler	.17,	13:40 11/5/2022	2022			×				Δ	X Ma								
5)	JoBrighton-06 Hallway Adjacent to Cafeteria, Hydration Station, Bottle Fill	teria,	12:44 11/5/2022	2022			×				D	X MO								
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#### AE220046 Wyandotte PS (JoBrighton Skill Center IFD) Chain of Custody - REVISED

From: Sabrina Fouche (sabrina@archenvgroup.com)

To: bai-brighton@sbcglobal.net

Date: Wednesday, November 9, 2022 at 01:56 PM EST

#### Hello,

A set of lead samples were submitted this morning under the project number of AE220046. I want to notify you of an error that was idented on the Chain of Custody form for the JoBrighton Skill Center IFD. The sample ID "JoBrighton-01" appears twice in both row one and row six. The correct sample ID for row six is "JoBrighton-10" with the location description of "Room 16, Left Faucet".

I have attached the corrected COC for your review. Please let me know if there is any additional information I can provide for this project.

Many Thanks,

#### Sabrina Fouche

Consultant I, cleanWATER
Arch Environmental Group, Inc.

37720 Interchange Drive, Farmington Hills, Michigan 48335

Office: (248) 426-0165 | Mobile: (248) 558-9294

www.archenvgroup.com

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AE220046 Wyandotte JoBrighton Skill Center IFD Lead COC.pdf

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## BRIGHTON ANALYTICAL, LLC

# QUALITY ASSURANCE/QUALITY CONTROL

### ICP-MS METHOD 200.8/6020

#### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date:	11/15/2022	Standard ID: 1	01722 H2O	Batch: 1	11/14/2022	B3
Matrix Spike Lab ID:	CS03282	Matrix:	Total	Analyst:	LT	

	Matrix Spike -	Precision *		Matrix Spik	e - Accurac	y**		Miscellaneo	us***	
Metals	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS- Method STD (%)	Ind. Std. (%)
Lead	748	769	2.8	1000	74.8	76.9	0	<1	93.0	109.9

Comments:	

<sup>\*</sup> Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 20% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery