

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 Wilson Middle School

Dear Mr. Bowers:

Pursuant to the request of Wyandotte Public Schools, Arch Environmental Group, Inc. (AEG) collected fourteen (14) representative first draw drinking water lead samples on November 5, 2022, at Wilson Middle School 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.

GRAND RAPIDS (616) 930-4116 Cedar Springs, MI AE220046 Lead Drinking Water Sampling Wilson Middle School

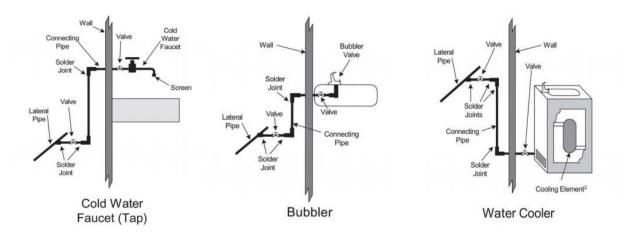
4. Brass Pipes, Faucets Fittings and Valves

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.



AE220046 Lead Drinking Water Sampling Wilson Middle School

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

Sabrina Fouche Consultant, D-5 Waterworks Operator #22153

Attachments: Results Table Analytical Results & Chain of Custody





Wilson Middle School

Date of Sampling: November 5, 2022

Sampler: Zachary Fortin

. ,									
Sample #	Location	Type ¹	Time Collected	District Lead Action Level (ug/L) ²	Lead Results		POU Filter Present Y/N	Filter Date/Color	Notes
Wilson-01	Hallway Across from Room 51, Bubbler	В	2:27 PM	12	3	N	Ν	N/A	Initial First Draw
Wilson-02	Hallway Outside of Cafeteria, Hydration Station, Bottle Fill	HS	2:48 PM	12	ND ³	Y	Y	Green	Initial First Draw
Wilson-03	Hallway Across from Room 108, Hydration Station, Bottle Fill	HS	2:52 PM	12	ND	Y	Y	Green	Initial First Draw
Wilson-04	Hallway Across from Room 115, Bubbler	В	2:56 PM	12	2	Y	N	Unknown	Initial First Draw
Wilson-05	Hallway Across from Room 101, Bubbler	В	3:09 PM	12	1	Y	Ν	N/A	Initial First Draw

1) 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

2) https://www.epa.gov/sites/default/files/2016-06/documents/npwdr_complete_table.pdf

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



Wilson Middle School

Date of Sampling: November 5, 2022

Sampler: Zachary Fortin

Sample #	Location	Type ¹	Time Collected	District Lead Action Level (ug/L) ²	Lead Results (ug/L)		POU Filter Present Y/N	Filter Date/Color	Notes
W/USOD-Ub	Hallway Across from Room 201, Bubbler	В	3:05 PM	12	2	Y	N	N/A	Initial First Draw
Wilson-07	Hallway Across from Room 206, Hydration Station, Bottle Fill	HS	3:02 PM	12	ND	Y	Y	Yellow	Initial First Draw
1///IICON-LIX	Hallway Across from Room 215, Bubbler	В	2:58 PM	12	2	Ν	Ν	Unknown	Initial First Draw
	Hallway Across from Room 33, Hydration Station, Bottle Fill	HS	3:15 PM	12	ND	Y	Y	Green	Initial First Draw
Wilson-10	Gymnasium, North Water Cooler	WC	2:40 PM	12	ND	Y	Y	Unknown	Initial First Draw

1) 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

2) https://www.epa.gov/sites/default/files/2016-06/documents/npwdr_complete_table.pdf

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



Wilson Middle School

Date of Sampling: November 5, 2022

Sampler: Zachary Fortin

Sample #	Location	Type ¹	Time Collected	District Lead Action Level (ug/L) ²	Lead Results	Aerator Present Y/N	POU Filter Present Y/N	Filter Date/Color	Notes
Wilson-11	Gymnasium, South Water Cooler	WC	2:44 PM	12	1	Ν	Y	Unknown	Initial First Draw
Wilson-17	Pool, North Entrance, Hydration Station, Bottle Fill	HS	2:35 PM	12	ND	Y	Y	Green	Initial First Draw
Wilson-13	Kitchen, Kitchen Kettle	КК	3:19 PM	12	ND	N	Y	2/10/22	Initial First Draw
Wilson-14	Kitchen, Food Prep Sink, Across from Kettle, Kitchen Faucet	KF	3:24 PM	12	2	Y	N	N/A	Initial First Draw

1) 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

2) https://www.epa.gov/sites/default/files/2016-06/documents/npwdr_complete_table.pdf

3) 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: Wilson Middle School 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 85912 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/	11/05/2022	14:27				Arch Envir	onmental Group				
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	rchange Dr.			
Report Date:		11/16/2022					Farmington	Hills, MI 48335			
BA Project #			Project Name:	Wilson	Middle S	chool					
BA Sample ID CS03273		773		Project Number	:: AE22	0046 - W	PS				
BA Sample ID CS03273				Sample ID:	Wilson-01	Hallway	Across Room 51 Bubb	oler			
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
									, ~-		_
Drinking Water M	letal An	alysis									
Total Lead (Drinking V	Water)		3	ug/L	1	15	EPA 200.8 rev5.4	13:59	LT	11/15/2022	
			1 .1 1	. 1 . 0			• •				

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.

typopa

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/7 Submit Date/7 Report Date:		2 13:40				37720 Inter	onmental Group rchange Dr. h Hills, MI 48335			
Report Date.	11/10/202	2				T annington				
BA Project #	85912		Project Name	e: Wilson	Middle S	chool				
BA Sample ID	CS03274		Project Numb Sample ID:		0046 - W Hallway	PS Outside Cafeteria Hy	dration Station Bl	F		
Analyte Na	me	Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	letal Analysis									
Total Lead (Drinking W	Vater)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:01	LT	11/15/2022	
RL=Reported detect	tical method re	quested. Son	ne compound	s 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.

topa

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	14:52				Arch Envir	onmental Group			
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	change Dr.			
Report Date:		11/16/2022					Farmington	Hills, MI 48335			
BA Project #	85912			Project Name:	Wilson	Middle S	chool				
BA Sample ID CS03275				Project Number		0046 - W					
DA Sample ID CS03275				Sample ID:	Wilson-03	Hallway	Across Room 108 Hyd	Iration Station BF			
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	/letal An	alysis									
Total Lead (Drinking V	Water)		Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:08	LT	11/15/2022	
			1 .1 1	. 1. 0			• •				

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.

topoa

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	14:56				Arch Envir	onmental Group		
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	rchange Dr.		
Report Date:		11/16/2022					Farmingtor	h Hills, MI 48335		
BA Project #	85912	2		Project Name:		Middle S				
BA Sample ID CS03276				Project Number Sample ID:		0046 - W Hallway	rs Across Room 115 But	obler		
Analyte Name			Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water Metal Analysis										
Total Lead (Drinking Water)		2	ug/L	1	15	EPA 200.8 rev5.4	14:11	LT	11/15/2022	
			1 /1 1	(1 0	1		• 1			

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.

topa

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/ Submit Date/ Report Date:	Time: 1	11/05/2022 11/09/2022 11/16/2022	15:09 13:40				37720 Inter	onmental Group rchange Dr. 1 Hills, MI 48335			
BA Project # BA Sample ID	85912 CS0327	17		Project Name: Project Number Sample ID:	:: AE22	Middle S 0046 - W Hallway		obler			
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water Metal Analysis Total Lead (Drinking Water)		ysis	1	ug/L	1	15	EPA 200.8 rev5.4	14:13	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.

topa

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/ Submit Date/ Report Date:	Time: 11	/05/2022 /09/2022 /16/2022	15:05 13:40				37720 Inter	onmental Group rchange Dr. 1 Hills, MI 48335			
BA Project # BA Sample ID	85912 CS03278	}		Project Name: Project Number Sample ID:	: AE22	Middle S 0046 - W Hallway		obler			
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water Metal Analysis Total Lead (Drinking Water)		sis	2	ug/L	1	15	EPA 200.8 rev5.4	14:15	LT	11/15/2022	
DT D D D D D D D D D D				1 0							

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.

topa

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	15:02				Arch Envir	onmental Group			
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	change Dr.			
Report Date:		11/16/2022					Farmington	Hills, MI 48335			
BA Project #	85912			Project Name:	Wilson	Middle S	chool				
BA Sample ID CS03279				Project Number		0046 - W					
BA Sample ID CS03279				Sample ID: V	Wilson-07	Hallway	Across Room 206 Hyd	Iration Station BF			
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	letal Ana	alysis									
Total Lead (Drinking Water)		Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:18	LT	11/15/2022		
			1 .1 1	. 1 . 0	1		• •				

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.

topa

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	14:58				Arch Envir	onmental Group		
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	change Dr.		
Report Date:		11/16/2022					Farmington	Hills, MI 48335		
BA Project #	85912			Project Name:		Middle S				
BA Sample ID	280		Project Number Sample ID:		0046 - W Hallway	PS Across Room 215 But	obler			
Analyte Name			Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water M										
Total Lead (Drinking Water) 2			2	ug/L	1	15	EPA 200.8 rev5.4	14:20	LT	11/15/2022
DI - Donortad data	al mathad m	amostad Cama			amaaial					

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.

Good

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	15:15				Arch Envir	onmental Group			
Submit Date/	Time:	11/09/2022	13:40				37720 Inter	change Dr.			
Report Date:		11/16/2022					Farmington	Hills, MI 48335			
BA Project # 85912 BA Sample ID CS03281				Project Name: Project Number		Middle S 0046 - W					-
BA Sample ID CS03281				Sample ID:	Wilson-09	Hallway	Across Room 33 Hydi	ration Station BF			
Analyte Name			Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	letal An	alysis									
Total Lead (Drinking Water)		Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:22	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.

typopa

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/ Submit Date/ Report Date:	Time:	11/05/2022 11/09/2022 11/16/2022	14:40 13:40				37720 Inter	onmental Group rchange Dr. 1 Hills, MI 48335			
BA Project # BA Sample ID	85912 CS03			Project Name: Project Number Sample ID:	r: AE22	Middle S 0046 - W Gymnasi		ler			-
Analyte Na	ime		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	Metal Ar	nalysis									
Total Lead (Drinking	Water)		Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:25	LT	11/15/2022	
DI - Domontad data	ation lin	nit fan analysi	a al un ath a d una	avastad Sama			amagial				

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.

typopa

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	14:44				Arch Envir	onmental Group			
Submit Date/T	Time:	11/09/2022	13:40				37720 Inter	rchange Dr.			
Report Date:		11/16/2022					Farmingtor	h Hills, MI 48335			
BA Project #	85912	2		Project Name:		Middle S					
BA Sample ID	CS03	283		Project Number Sample ID:		0046 - W Cumnasi	rs ium South Water Cool	low			
				Sample ID.	vv 115011-11	Gymnasi	ium south water Cool	ler			
Analyte Na	ne		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	letal An	alysis									
Total Lead (Drinking W	Vater)		1	ug/L	1	15	EPA 200.8 rev5.4	14:46	LT	11/15/2022	
DI - Dan anta dada a		· · · · · · · · · · · · · · · · · · ·	1 4 1	. 1. 0			• 1				

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.

typopa

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/ Submit Date/ Report Date:		11/05/2022 11/09/2022 11/16/2022	14:35 13:40				37720 Inter	onmental Group rchange Dr. h Hills, MI 48335		
Report Date.		11/10/2022					ranningtor	40333		
BA Project #	85912	2		Project Name:		Middle S				
BA Sample ID	CS03	284		Project Number Sample ID:		0046 - W Pool Nor	PS th Entrance Hydratio	on Station BF		
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date
Drinking Water M	Ietal An	alysis								
Total Lead (Drinking V	Water)		Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:53	LT	11/15/2022
DI _D			1 (1 1	(1 G	1		• 1			

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.

typopa

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/ Submit Date/ Report Date:	Time:	11/05/2022 11/09/2022 11/16/2022	15:19 13:40				37720 Inter	onmental Group rchange Dr. h Hills, MI 48335			
BA Project #	85912	2		Project Name:		Middle S					
BA Sample ID	CS03	3285		Project Numbe Sample ID:		0046 - W Kitchen	PS Kitchen Kettle				
Analyte Na	me		Result	Units	RL	MCL	Method Reference	Analysis Time	Analyst	Analysis Date	
Drinking Water M	Aetal Ar	nalysis									
Total Lead (Drinking V	Water)		1	ug/L	1	15	EPA 200.8 rev5.4	14:55	LT	11/15/2022	
DI - Domontad data	ation lin	nit fon on alertia	al mathad m	awastad Sama			amaaial				

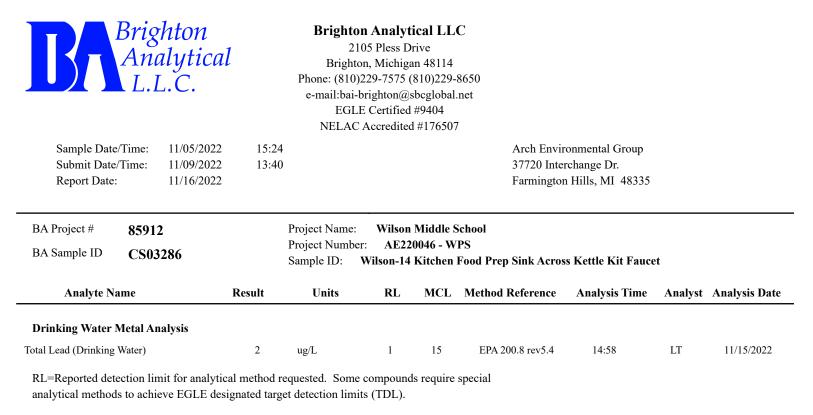
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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

typopa

Date 11/16/2022



MCL = Maximum contaminant Levels.

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

300

Date 11/16/2022

			D 1. 1. 1. 4.	- 14					A			B	A PR	OJEC	T #:			Δ	nalv	sis P	Sean	estec	l/Mef	hod		PAGE:	1 OF	-
			Brighton An	alyti Pless E		L.I	L.(1	_	ABB	S	1	5 FOI	Ř	-		1	1	1	1	1	1 1		REPORT	RESULTS	TO:
				on, MI										E MAT												Arch Environme	ntal Group	
			Phone: 810-229-7)-22	9-86	50			S = 5 L = L	Solid Liquid																
PRO	JEC.	т					_				DW :	= Drin = Wa	iking						×						2			
		IND	Wilson Mi	ddle So	chool I	FD					0=(P=)	OII														Attn:	Jenna Sendra	
	JEC	_						_				Air (Te	ədlar	Bag)														
			Α	E22004	6						T = 1	ſube														PHONE:		
P.O. N			Wyandotte	Public	: Schoo	ols					GW=	Misc Grou		ater Water												FAX:		
		-		lf R	USH	1		0.			-	-	-	-	-	-										EMAIL:	labs@archenv	group.com
Sample of	ollecte	ed by:	Zachary Fortin	аррго	ved by:	-	r		ntall	ner	i ype	9 6. (_	Intity	r	-	-									Sample received wit	hin holding time	? vest?) no 🗆
			OUND:(X BOX WITH TAT NEEDED)					Ē	Ð	RED				ERVE	RIA		Xi									Temperature of sam	ples °C:	
Defa RUSH: 1 Bi		ay (verif		1		(PRES)	PRES	SER/		FILTE	so,	NAOH	LASS	LASS	ACTE	Prese	Matrix									pH verified in login? Headspace/bubbles in	yes/S+no 🗆 /OA'S? yes 🗆 no	⊐ n/aj 75
		RUSH:	usiness days 2 2 3 Business days 3 URCHARGE 3 1			L'S (P	VOA'S (UNPRES)	UNPRESERVED	HNO3 FILTERED	HNO ₃ UNFILTERED	HDPE H2SO4	HDPE N	AMBER GLASS	SER G	ZED B	f Pres (L)ab										Sample containers a	nd COC match	yes-Prho 🗆
1 DAY≕	ax cost		Y = 2X COST 3 DAY = 1.5X COST	Sam	npling	VOA'S	VOA:	HDPE (Ξ Ш		H	표	AME	AMBER GLASS (PRESERVE)(NOT PRESERVE	STERILIZED BACTERIA	MEOH Preserved: (F)ield or (L)ab Preser	Sample											1
Brighton	ID#		Sample Description 35 Characters Limit	Time	Date			Ŧ	HDPE	HDPE				(PRE	°.	j.	Sa	Lead								BILLING ADDRESS	(IF REQUIRED	·
USD 37	23	Wilson Bubble	-01 Hallway Across from Room 51, r	14:27	11/5/2022					Х							DW	X										
2)	ail		-02 Hallway Outside of Cafeteria, on Statlon, Bottle FIII	14:48	11/5/2022					Х							DW	X										
3)	25	Wilson	-03 Hallway Across from Room 108, on Station, Bottle Fill	14:52	11/5/2022					Х							DW	X										
4)	n	Wilson	-04 Hallway Across from Room 115,	14:56	11/5/2022		'n			Х				1			DW	X		1		1						
5)			-05 Hallway Across from Room 101,	15:09	11/5/2022					Х							DW	X				\square						
6)	751		-06 Hallway Across from Room 201	15:05	11/5/2022	†	-			Х	_		-		-		DW	X		1		-	-					
	00		-07 Hallway Across from Room 206,	15:02	11/5/2022	-			_	X	_			<u> </u>			DW	X	-			+	\vdash					
7)	11		on Station, Bottle Fill -08 Hallway Across from Room 215,			-	-	-	=	X	-	-	-	-		-	DW	X		-	-		-			Dr	inking Wa	er:
	20	Bubble	r -09 Hallway Across from Room 33,	14:58	11/5/2022	-	-			-	_		-	-		-	-		-		-	+				Fax to LCHD? yes	-	
9)			on Station, Bottle Fill	15:15	11/5/2022	_				X			_	<u> </u>			DW	X		-		<u> </u>				Chlorinated Water Supp	oly? yes 🗆 no 🗆	
10) (82	Wilson	10 Gymnasium, North Water Cooler	14:40	11/5/2022					Х			_		_		DW	X							_	MCL Failure yes D no Client Notified (date/tim		
Special I	nstructi	ions:																			_							
			Please fill out	the Cha	nin of C	usto	ody	соп	plet	tely	and	rev	iew	. Inc	orr	rect o			lete il	nforn	natior	will	result	in a "h	nold'	" on all analyse	s.	
Trans #		F			RECEIVE				-			DATE	:		т	'IME:	Tran #	s.		RELIN		BY:			REC	CEIVED BY:	DATE:	TIME:
1	2	a.v	ATEN	KK		X				(1/.	9/2	2		12	-15	3		U	ć	1	Y		6	leg	lood	11/2/22	1:40
2	/		0		,												4				ł				C			
_	-									-			_	_	-	_	-			_		_						

	Duinhton An	- 14:			-	TM				B	APR	OJEC	r#:	_		A	nalv	sis F	Reau	estec	l/Met	hod		PAC	E:_2 OF	2	-
DA	Brighton Ana			L.L	C					ARR	D)	TION:	S FOR	-	-		T	T	Т	1	1		_	REPO	RT RESL	ILTS	TO:
	Brighte	Piess E on. MI 4										E MAT											ſ	Arch Environ	nental Gro	up	
	Phone: 810-229-75)-229	-86	50			S = 5 L = 1	Solid .lquid																	
PROJEC	г				-				DW :	= Drin = Wa	nking																
	Wilson Mid	ddle So	chool I	FD					0 = (P = V	OII		aror												Attn:	Jenna S	endra	
PROJEC	r I				2				A = /	Air (Te	ədlar	Bag)												Aun			
	Le la	22004	6						F = F T = T	ube														PHONE:			
P.O. NUMB		Public	Schoo	ols						Grou		ater Water												FAX:			
Comple collecte	d by: Zachary Fortin	-	USH ved by:			Con	tain	ner T		-	-	-	-											EMAIL:	labs@a	chenvç	roup.com
Sample collecte		appro						0				Ű.			×									ample received		ig time'	? yes 🗆 no 🗖
Default TAT	JRNAROUND:(X BOX WITH TAT NEEDED) Standard: 5 - 10 Business days av (verify with lab) RUSH:			(s)	(SS)	UNPRESERVED	HNO ₃ FILTERED	HNO3 UNFIL TERED	5	Ŧ	SS	ISS RESER	STERILIZED BACTERIA	ved:	atri								p	emperature of s	in? yes 🗆 no		
RUSH: 1 Business d	2 Business days			VOA'S (PRES)	VOA'S (UNPRES)	PRES	BIL.	UNFI	HDPE H2SO4	NAOH	AMBER GLASS	K GLA	D BAG	MEOH Preserved: eld or (L)ab Preserv	Σ									leadspace/bubbles			
1 DAY=3X COST	RUSH SURCHARGE 3 DAY = 1.5X COST	Sam	pling	OA'S) S.V(S	P I	HNO ₃	HDPE	HDPE	MBEI	WIBEI	SILIZE	EOH F	ble								8	ampie containe		naton	yes 🗆 no 🗅
Brighton ID #	Sample Description 35 Characters Limit	Time	Date	11	2	HDPE		HDPE			4	ÂMBER GLÂSS (PRESERVE)(NOT PRESERVI	STEI	ME (F)ield	Sample Matrix	Lead							в	ILLING ADDRE	SS (IF REQI	JIRED)	
1) 83	Wilson-11 Gymnasium, South Water Cooler	14:44	11/5/2022					Х							DW	Χ											
2) 0.4	Wilson-12 Pool, North Entrance, Hydration Station, Bottle Fill	14:35	11/5/2022					Х							DW	Χ											
3) 85	Wilson-13 Kitchen, Kitchen Kettle	15:19	11/5/2022					Х							DW	Χ											
	Wilson-14 Kitchen, food prep sink, across from kettle, kitchen faucet	15:24	11/5/2022					х							DW	Χ						T					
5)															DW												
6)															DW												
7)															DW												
8)															DW										Drinking	Wat	er:
9)															DW									ax to LCHD? yes hlorinated Water \$		no 🗆	
10)													1		DW								M	CL Failure yes 🗆			
Special Instruct	ions:			<u> </u>																	<u> </u>	J		lient Notified (date		-	
	Please fill out t	he Cha	in of C	usto	dy (com	olet	ely	and	rev	iew	. Inc	orr	ect o	or inc	omp	lete ir	nform	atior	will	result	in a "ho	old" o	on all analy	ses.	_	
Trans. #	RELINQUISHED BY:		RECEIVE	D BY:					1	DATE			Т	IME:	Trans #				UISHEI	ву:			RECE	VED BY:	DAT		TIME:
1 2	aut E/ 2	ĽĽ		·y	h			,,	1/0	3/2	22		12	115	3	8	KK	(12	l	(Q	~	a	"/9/	'n	1:40
2															4				I								



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: 101722 H2O	Batch: 11/14/2022 B3
		an and a state of the state of
Matrix Spike Lab ID: CS03282	Matrix: Total	Analyst: LT
	CONTRACT AND A DESCRIPTION	

	Matrix Spike -	Precision *		Matrix Spik	e - Accurac	y**	Miscellaneous***				
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	

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 20% recovery *** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: