



Water Resources and Infrastructure Planning Program
an Indiana Finance Authority Environmental Program

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July 19, 2018

Mr. Mike Megyesi, Principal
Chesterton Middle School
651 W. Morgan Ave.
Chesterton, IN 46304

Re: Chesterton Middle School Lead Sampling Program Results

Dear Mr. Megyesi:

On May 18, 2018, water samples were collected from 65 drinking water fixtures at Chesterton Middle School and sent to a state-certified laboratory to be analyzed for the presence of lead. The laboratory determined that 3 fixtures had results above the EPA Action Level for Lead. See table below. The IFA recommends that you take these fixtures offline immediately. We spoke with facility staff about the preliminary results for this school and recommend that you speak with them about remediation plans. The sample type refers to either an "initial" sample or a "flush" sample. The initial sample represents the fixture itself and the flush sample potentially represents the internal plumbing. The laboratory results of all samples taken are attached.

Table with 4 columns: Fixture Code, Fixture Type & Location, Sample Type, Lead (ppb)*. Rows include data for fixtures 112, 113, and 164 with their respective lead levels and sample types.

*EPA Lead Action Level is 15 parts per billion (PPB)

Recommended Actions

- 1. Take fixtures with elevated lead concentrations offline (either turn water off at that location or place a bag over the fixture);
2. Communicate the remediation actions you will take to IFA;
3. Carry out your selected remediation actions within 60 days;
4. Communicate with staff, students, and parents about sample results and remediation plans;
5. Communicate results to the local Public Water System and Health Department.

Resources

1. To help you address sources of lead at your school, we provide remediation recommendations for each fixture at or above 15 ppb (see lab results). We have also discussed remediation options in more detail with facility staff.
2. To help you communicate with your school community, we have included a template letter to parents and your school community.

Future Considerations

Due to the variable nature of lead concentrations in drinking water, we recommend schools put together a long-term monitoring plan using the tools this program has provided, such as the sample plan map specific to your school. In the short-term, follow-up samples could be used to confirm problems have been addressed if the school opts to replace problem fixtures. In the long term, we recommend that schools routinely monitor for the presence of lead in drinking water.

To help you manage future sampling at your school, the IFA has prepared a Lead Sampling Program Guidance for Schools and an online training quiz for school officials. The purpose of the guidance and quiz is to help school officials understand the procedures for collecting drinking water samples to test for the presence of lead, but also includes suggestions for remediation actions. The guidance and training quiz is available on our website: <http://www.in.gov/ifa/2958.htm>.

We truly appreciate your willingness to protect the health and safety of children in Indiana. Please contact me if you have any questions about these results, remediation recommendations, or future sampling efforts.

Sincerely,



Erica Walker

Attachments:

Laboratory results of all samples taken
Template Press Release and Letter to School Community
Sample Plan Map

Cc:

Dr. Ginger Bolinger, Superintendent (electronic)
Mr. Quint Yarber, Maintenance Director (electronic)
Mr. Mark Singer, Mechanical Maintenance Supervisor (electronic)
Mr. Greg Lindy, Director of Support Services (electronic)

School Name: Chesterton Middle School
 School Code: 6930

Sample Collection Date: 05/18/2018
 Analysis Date: 06/14/2018

Lab Name: Element
 Detection Limit: 0.5 ppb

Sample Code	Sample Type	Fixture Type	Fixture Location	Lead Results (ppb)	Recommended Remediation Actions
101	Initial	Water Cooler	north hallway	0.5	
101	Flush: 30 seconds	Water Cooler	north hallway	0.5	
102	Initial	Faucet	nurse clinic	0.7	
102	Flush: 30 seconds	Faucet	nurse clinic	0.5	
102	Flush: 180 seconds	Faucet	nurse clinic	0.5	
103	Initial	Faucet	main office workroom	0.5	
104	Initial	Water Cooler	main office lobby	0.5	
104	Flush: 30 seconds	Water Cooler	main office lobby	0.9	
105	Initial	Water Cooler	main office lobby	0.5	
105	Flush: 30 seconds	Water Cooler	main office lobby	0.6	
106	Initial	Faucet	rm a109	0.5	
107	Initial	Water Cooler	north hallway	0.6	
107	Flush: 30 seconds	Water Cooler	north hallway	0.7	
108	Initial	Faucet	north concession	12.4	
109	Initial	Water Cooler	sports boys locker room	1.0	
109	Flush: 30 seconds	Water Cooler	sports boys locker room	1.3	
110	Initial	Bubbler	pe boys locker room	1.2	
111	Initial	Water Cooler	girls pe locker room	1.4	
111	Flush: 30 seconds	Water Cooler	girls pe locker room	6.7	
112	Initial	Bubbler	2nd fl locker rm	26.2	Remove or Replace & Retest
113	Initial	Bubbler	2nd floor gym	19.1	
113	Flush: 30 seconds	Bubbler	2nd floor gym	18.6	
114a	Initial	Water Cooler	exit 18 hallway	0.7	
114a	Flush: 30 seconds	Water Cooler	exit 18 hallway	2.4	
115b	Initial	Water Cooler	exit 18 hallway	0.5	
115b	Flush: 30 seconds	Water Cooler	exit 18 hallway	0.5	
116	Initial	Water Cooler	cafeteria	0.5	
116	Flush: 30 seconds	Water Cooler	cafeteria	0.5	
119	Initial	Bubbler	south hallway	1.4	
119	Flush: 30 seconds	Bubbler	south hallway	0.5	
120	Initial	Faucet	facs rm c 139	0.5	
121	Initial	Faucet	facs rm c 139	0.5	
122	Initial	Faucet	facs rm c 139	0.5	
123	Initial	Faucet	facs rm c 139	0.5	
124	Initial	Faucet	facs rm c 139	0.5	
125	Initial	Faucet	facs rm c 139	0.5	
126	Initial	Faucet	facs rm c 139	0.5	
127	Initial	Faucet	facs rm c 139	0.6	
127	Flush: 30 seconds	Faucet	facs rm c 139	0.5	
128	Initial	Faucet	facs rm c 141	1.9	
129a	Initial	Water Cooler	across b 136	0.5	
129a	Flush: 30 seconds	Water Cooler	across b 136	0.5	
130b	Initial	Water Cooler	across b 136	0.5	
130b	Flush: 30 seconds	Water Cooler	across b 136	0.5	
131a	Initial	Other	pool	0.5	
132b	Initial	Water Cooler	pool	0.5	
132b	Flush: 30 seconds	Water Cooler	pool	0.5	
133	Initial	Bubbler	boys locker room	4.1	
136a	Initial	Bubbler	pool	1.0	
137b	Initial	Bubbler	pool	1.7	
137b	Flush: 30 seconds	Bubbler	pool	0.5	
138a	Initial	Water Cooler	exit 11 hallway	0.5	
138a	Flush: 30 seconds	Water Cooler	exit 11 hallway	0.6	
139	Initial	Water Cooler	e 159	1.2	
139	Flush: 30 seconds	Water Cooler	e 159	2.1	
140	Initial	Water Cooler	e 157	0.8	
140	Flush: 30 seconds	Water Cooler	e 157	0.5	
141	Initial	Water Cooler	d 158	0.5	
141	Flush: 30 seconds	Water Cooler	d 158	0.5	
142a	Initial	Water Cooler	exit 11 hallway	0.5	
142a	Flush: 30 seconds	Water Cooler	exit 11 hallway	0.5	
143b	Initial	Water Cooler	exit 11 hallway	0.5	
143b	Flush: 30 seconds	Water Cooler	exit 11 hallway	0.5	
144a	Initial	Bottle Filler	east gym	0.5	
145b	Initial	Water Cooler	east gym	0.5	
145b	Flush: 30 seconds	Water Cooler	east gym	0.5	
146a	Initial	Water Cooler	middle hallway	0.5	
146a	Flush: 30 seconds	Water Cooler	middle hallway	0.5	
147b	Initial	Water Cooler	middle hallway	0.5	
147b	Flush: 30 seconds	Water Cooler	middle hallway	0.5	
149	Initial	Faucet	rm b 135	2.3	
150a	Initial	Water Cooler	middle hallway	0.5	
150a	Flush: 30 seconds	Water Cooler	middle hallway	0.5	
151b	Initial	Water Cooler	middle hallway	0.5	
151b	Flush: 30 seconds	Water Cooler	middle hallway	0.5	
152	Initial	Faucet	kitchen, see schematic	0.5	
153	Initial	Ice Machine	kitchen, see schematic	0.5	
154	Initial	Faucet	kitchen, see schematic	0.8	
154	Flush: 30 seconds	Faucet	kitchen, see schematic	0.5	
155	Initial	Faucet	A207	2.5	
156	Initial	Water Cooler	a 207	1.5	
156	Flush: 30 seconds	Water Cooler	a 207	3.3	
157a	Initial	Water Cooler	2nd floor east hallway	0.5	
157a	Flush: 30 seconds	Water Cooler	2nd floor east hallway	0.5	
158b	Initial	Water Cooler	2nd floor east hallway	0.5	
158b	Flush: 30 seconds	Water Cooler	2nd floor east hallway	0.5	

School Name: Chesterton Middle School

Sample Collection Date: 05/18/2018

Lab Name: Element

School Code: 6930

Analysis Date: 06/14/2018

Detection Limit: 0.5 ppb

Sample Code	Sample Type	Fixture Type	Fixture Location	Lead Results (ppb)	Recommended Remediation Actions
159a	Initial	Water Cooler	2nd floor west hallway	0.5	
159a	Flush: 30 seconds	Water Cooler	2nd floor west hallway	0.5	
160b	Initial	Water Cooler	2nd floor west hallway	0.5	
160b	Flush: 30 seconds	Water Cooler	2nd floor west hallway	0.5	
161	Initial	Faucet	219 a	6.9	
161	Flush: 30 seconds	Faucet	219 a	0.5	
162a	Initial	Water Cooler	2nd floor south hallway	0.5	
162a	Flush: 30 seconds	Water Cooler	2nd floor south hallway	0.5	
163b	Initial	Water Cooler	2nd floor south hallway	0.5	
163b	Flush: 30 seconds	Water Cooler	2nd floor south hallway	0.5	
164	Initial	Spigot	outside concession stand, see schematic	27.6	Restrict Access or Replace with Lead-Free Certified Spigot
165	Initial	Faucet	outside concession stand, see schematic	1.9	
166	Flush: 180 seconds	Spigot	outside gray building	1.0	
501a	Initial	Bottle Filler	Cafeteria	0.5	
502b	Initial	Water Cooler	Cafeteria	0.5	
502b	Flush: 30 seconds	Water Cooler	Cafeteria	0.5	
503b	Initial	Water Cooler	Exit 11 Hallway	0.5	
503b	Flush: 30 seconds	Water Cooler	Exit 11 Hallway	0.6	
504a	Initial	Bottle Filler	Middle Hallway	0.5	
505b	Initial	Water Cooler	Middle Hallway	0.5	
505b	Flush: 30 seconds	Water Cooler	Middle Hallway	0.5	
Column	Term	Description			
Sample Type	Initial	First 250 mL draw of water from the fixture. Testing fixture itself			
Sample Type	Flush: 30 seconds	Water ran for 30 seconds after initial draw, then was sampled. Testing fixture and/or upstream plumbing			
Sample Type	Flush: 180 seconds	Water ran for 3 minutes after the initial draw and flush. Testing upstream plumbing			
Sample Code	a, b, c, etc.	Used when fixtures are next to each other, assigned from left to right when facing the fixture			
Fixture Type	Water Cooler	A water fountain with an internal cooling unit and storage tank			
Fixture Type	Bubbler	A drinking fountain without a cooling unit or storage tank			
Results	IS	Improper sample location. Not currently used for cooking/drinking water			
Results	NS	Unable to sample location during visit			
Remediation Action Recommended	Sign	Put up a "For Handwashing Only" Sign above fixture and inform staff not to use for cooking/drinking			
Remediation Action Recommended	Replace	Update with Lead-Free certified fixture, replace the incoming water line from shutoff valve to fixture and re-test water			
Remediation Action Recommended	Remove	Take the fixture offline permanently or remove it			
Remediation Action Recommended	Flush	Routinely flush fixture and educate staff on flushing protocol			
Remediation Action Recommended	Plumber	Potentially a larger issue. Speak with a plumber about remediation			