



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

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May 29, 2018

Mrs. Christina Jarka, Principal
Liberty Elementary School
50-1 W 900 N
Chesterton, IN 46304

Re: Liberty Elementary School Lead Sampling Program Results

Dear Mrs. Jarka:

On April 11, 2018, water samples were collected from 124 drinking water fixtures at Liberty Elementary School and sent to a state-certified laboratory to be analyzed for the presence of lead. The laboratory determined that 9 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 fixtures 158a, 160c, 172a, 174a, 202b, 207a, 210a, 219a, and 224 with their respective lead levels.

*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. Mark Brust, Buildings & Grounds (electronic)
Mr. Quint Yarber, Maintenance Director (electronic)
Mr. Mark Singer, Mechanical Maintenance Supervisor (electronic)
Mr. Greg Lindy, Director of Support Services (electronic)

School Name: Liberty Elementary School
 School Code: 6823

Sample Collection Date: 04/16/2018
 Analysis Date: 04/24/2018

Lab Name: Pace
 Detection Limit: 1.0 ppb

Sample Code	Sample Type	Fixture Type	Fixture Location	Lead Results (ppb)	Recommended Remediation Actions
101	Initial	Faucet	rm 215	13.1	
101	Flush: 30 seconds	Faucet	rm 215	1.3	
101	Flush: 180 seconds	Faucet	rm 215	1.0	
102a	Initial	Faucet	rm 120	1.0	
103b	Initial	Bubbler	rm 120	1.0	
104a	Initial	Faucet	rm 120	1.0	
105b	Initial	Bubbler	rm 120	1.0	
106a	Initial	Faucet	rm 136	1.0	
107b	Initial	Bubbler	rm 136	1.0	
108a	Initial	Faucet	rm 136	1.0	
109b	Initial	Bubbler	rm 136	1.0	
110a	Initial	Faucet	rm 126	1.0	
111b	Initial	Bubbler	rm 126	1.0	
112a	Initial	Faucet	rm 126	1.0	
113b	Initial	Bubbler	rm 126	1.0	
113b	Flush: 30 seconds	Bubbler	rm 126	1.0	
114a	Initial	Faucet	rm 127	1.0	
115b	Initial	Bubbler	rm 127	1.0	
116a	Initial	Faucet	rm 127	1.0	
117b	Initial	Bubbler	rm 127	1.0	
118a	Initial	Faucet	rm 133	1.0	
119b	Initial	Bubbler	rm 133	1.0	
120a	Initial	Faucet	rm 133	1.0	
121b	Initial	Bubbler	rm 133	1.0	
121b	Flush: 30 seconds	Bubbler	rm 133	1.0	
122a	Initial	Water Cooler	art hallway	1.0	
122a	Flush: 30 seconds	Water Cooler	art hallway	1.0	
123b	Initial	Water Cooler	art hallway	1.0	
123b	Flush: 30 seconds	Water Cooler	art hallway	1.0	
124a	Initial	Faucet	rm 146	1.0	
125b	Initial	Bubbler	rm 146	1.0	
126a	Initial	Faucet	rm 146	1.0	
127b	Initial	Bubbler	rm 146	1.0	
127b	Flush: 30 seconds	Bubbler	rm 146	1.0	
128a	Initial	Faucet	rm 155	1.0	
129b	Initial	Bubbler	rm 155	1.0	
130a	Initial	Faucet	rm 155	1.0	
131b	Initial	Bubbler	rm 155	1.0	
132a	Initial	Faucet	rm 154	1.0	
133b	Initial	Bubbler	rm 154	1.0	
134a	Initial	Faucet	rm 154	1.0	
135b	Initial	Bubbler	rm 154	1.0	
136a	Initial	Faucet	rm 153	1.0	
137b	Initial	Bubbler	rm 153	1.0	
138a	Initial	Faucet	rm 153	1.0	
139b	Initial	Bubbler	rm 153	1.0	
140a	Initial	Faucet	rm 152	1.0	
141b	Initial	Bubbler	rm 152	1.0	
142a	Initial	Faucet	rm 152	1.0	
143b	Initial	Bubbler	rm 152	1.0	
143b	Flush: 30 seconds	Bubbler	rm 152	1.0	
144a	Flush: 30 seconds	Water Cooler	kitchen hallway	2.9	
144a	Initial	Water Cooler	kitchen hallway	1.3	
145b	Flush: 30 seconds	Water Cooler	kitchen hallway	2.8	
145b	Initial	Water Cooler	kitchen hallway	2.5	
146a	Initial	Faucet	rm 130	2.7	
147b	Initial	Faucet	rm 130	1.0	
148c	Initial	Bubbler	rm 130	1.4	
149a	Initial	Faucet	rm 129	2.3	
150b	Initial	Faucet	rm 129	2.5	
151c	Initial	Bubbler	rm 129	5.9	
151c	Flush: 30 seconds	Bubbler	rm 129	1.3	
152a	Initial	Faucet	rm 149	1.7	
153b	Initial	Faucet	rm 149	1.3	
154c	Initial	Bubbler	rm 149	1.1	
155a	Initial	Faucet	rm 151	1.8	
156b	Initial	Faucet	rm 151	1.0	
157c	Initial	Bubbler	rm 151	1.0	
157c	Flush: 30 seconds	Bubbler	rm 151	1.0	
158a	Initial	Faucet	rm 152	16.8	Remove, Replace & Retest, or Sign
159b	Initial	Faucet	rm 152	2.5	
160c	Initial	Bubbler	rm 152	21.0	Remove, Replace & Retest, or Sign
161a	Initial	Faucet	rm 150	9.1	
162b	Initial	Faucet	rm 150	2.7	
163c	Initial	Bubbler	rm 150	2.1	
165b	Initial	Water Dispenser	teacher lounge water dispenser in refrigerator	1.0	
166	Initial	Faucet	teacher lounge	1.0	
167	Initial	Water Dispenser	teacher lounge	1.0	
167	Flush: 30 seconds	Water Dispenser	teacher lounge	1.0	

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168b	Initial	Water Cooler	music hallway	1.0	
168b	Flush: 30 seconds	Water Cooler	music hallway	1.0	
169c	Initial	Water Cooler	music hallway	1.0	
169c	Flush: 30 seconds	Water Cooler	music hallway	1.0	
170a	Flush: 30 seconds	Water Cooler	gym	1.1	
170a	Initial	Water Cooler	gym	1.0	
171b	Initial	Water Cooler	gym	1.0	
171b	Flush: 30 seconds	Water Cooler	gym	1.0	
172a	Initial	Faucet	kitchen, see schematic, hot water	23.4	Remove, Replace & Retest, or Sign
172a	Flush: 30 seconds	Faucet	kitchen, see schematic, hot water	1.8	
173b	Flush: 30 seconds	Faucet	kitchen, see schematic	1.0	
174a	Initial	Faucet	rm 158	68.9	Remove, Replace & Retest, or Sign
175b	Initial	Faucet	rm 158	9.0	
176c	Initial	Bubbler	rm 158	12.5	
176c	Flush: 30 seconds	Bubbler	rm 158	3.3	
177a	Initial	Faucet	rm 157	2.2	
178b	Initial	Faucet	rm 157	1.6	
179c	Initial	Bubbler	rm 157	1.1	
180a	Initial	Faucet	rm 159	2.2	
181b	Initial	Faucet	rm 159	1.8	
182c	Initial	Bubbler	rm 159	1.4	
183a	Initial	Faucet	rm 160	4.8	
184b	Initial	Faucet	rm 160	3.1	
185c	Initial	Bubbler	rm 160	2.0	
186a	Initial	Faucet	rm 162	5.0	
187b	Initial	Faucet	rm 162	1.7	
188c	Initial	Bubbler	rm 162	2.1	
188c	Flush: 30 seconds	Bubbler	rm 162	1.0	
189a	Initial	Faucet	rm 161	3.2	
190b	Initial	Faucet	rm 161	2.0	
191c	Initial	Bubbler	rm 161	1.0	
192a	Initial	Faucet	rm 163	4.9	
193b	Initial	Faucet	rm 163	2.4	
194c	Initial	Bubbler	rm 163	2.5	
195a	Initial	Faucet	rm 164	3.9	
196b	Initial	Faucet	rm 164	1.3	
197 c	Initial	Bubbler	rm 164	1.3	
198a	Initial	Faucet	rm 169	2.2	
199b	Initial	Faucet	rm 169	1.1	
200c	Initial	Bubbler	rm 169	1.0	
201a	Initial	Faucet	rm 170	8.7	
202b	Initial	Faucet	rm 170	670	Remove, Replace & Retest, or Sign
203c	Initial	Bubbler	rm 170	7.4	
204a	Initial	Faucet	rm 171	4.5	
205b	Initial	Faucet	rm 171	1.9	
206c	Initial	Bubbler	rm 171	2.7	
206c	Flush: 30 seconds	Bubbler	rm 171	1.0	
207a	Initial	Faucet	rm 172	36.6	Remove, Replace & Retest, or Sign
208b	Initial	Faucet	rm 172	6.2	
209c	Initial	Bubbler	rm 172	5.4	
210a	Initial	Faucet	rm 173	46.0	Remove, Replace & Retest, or Sign
211b	Initial	Faucet	between faucet and bubbler	4.8	
212c	Initial	Bubbler	rm 173	1.4	
213a	Initial	Faucet	rm 174	1.9	
214b	Initial	Faucet	rm 174	1.0	
215c	Initial	Bubbler	rm 174	1.0	
216a	Initial	Faucet	rm 175	2.6	
217b	Initial	Faucet	rm 175	1.0	
218c	Initial	Bubbler	rm 175	1.0	
218c	Flush: 30 seconds	Bubbler	rm 175	1.0	
219a	Initial	Faucet	rm 176	220	Remove, Replace & Retest, or Sign
220b	Initial	Faucet	rm 176	2.8	
221c	Initial	Bubbler	rm 176	1.3	
222a	Flush: 30 seconds	Water Cooler	main office hallway	6.8	
222a	Initial	Water Cooler	main office hallway	3.9	
223b	Flush: 30 seconds	Water Cooler	main office hallway	1.3	
223b	Initial	Water Cooler	main office hallway	1.0	
224	Initial	Faucet	conference room 203	98.2	Remove, Replace & Retest, or Sign
225	Initial	Faucet	nurse office room 207	2.5	
225	Flush: 30 seconds	Faucet	nurse office room 207	1.0	
501a	Initial	Bottle Filling Station	Music Hall	1.0	

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Detection Limit: 1.0 ppb

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/Dishwashing 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