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

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June 1, 2018

Mr. Kevin Zeck, Principal
Bailly Elementary School
800 S. 5th Street
Chesterton, IN 46304

Re: Bailly Elementary School Lead Sampling Program Results

Dear Mr. Zeck:

On April 20, 2018, water samples were collected from 76 drinking water fixtures at Bailly Elementary School and sent to a state-certified laboratory to be analyzed for the presence of lead. The laboratory determined that 4 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.

Results			
Fixture Code	**Fixture Type & Location**	**Sample Type**	**Lead (ppb)***
124b	**Faucet (Rm 189)**	**Initial** **Flush: 30 seconds**	**30.3** **18.7**
128b	**Faucet (Rm 192)**	**Initial**	**15.2**
147b	**Bubbler (Rm 116)**	**Initial**	**20.9**
155	**Bubbler (Gym)**	**Initial**	**15.5**

***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;
    - **Please note:** IFA will post all results from this program and the remediation actions reported by you to us to our website, no sooner than two weeks from the date of this letter.
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

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: Bailly Elementary School | **Sample Collection Date**: 04/20/2018 | **Lab Name:** Pace

School Code: 6928 | **Analysis Date:** 05/08/2018 | **Detection Limit:** 1.0 ppb

Sample Code	Sample Type	Fixture Type	Fixture Location	Lead Results (ppb)	Recommended Remediation Actions
101a	Initial	Water Cooler	Front Hall	1.0	
101a	Flush: 30 seconds	Water Cooler	Front Hall	1.0	
102b	Initial	Water Cooler	Front Hall	1.0	
102b	Flush: 30 seconds	Water Cooler	Front Hall	1.0	
103a	Initial	Bubbler	Rm 101	1.1	
104b	Initial	Faucet	Rm 101	1.3	
105a	Initial	Faucet	Rm 104	5.0	
106b	Initial	Bubbler	Rm 104	1.0	
106b	Flush: 30 seconds	Bubbler	Rm 104	1.0	
107a	Initial	Bubbler	Rm 103	1.0	
108b	Initial	Faucet	Rm 103	3.4	
109a	Initial	Faucet	Rm 102	5.0	
110b	Initial	Bubbler	Rm 102	1.0	
110b	Flush: 30 seconds	Bubbler	Rm 102	1.0	
111	Initial	Water Cooler	Front hall	4.4	
111	Flush: 30 seconds	Water Cooler	Front hall	5.8	
112	Initial	Faucet	Rm 209	5.8	
112	Flush: 30 seconds	Faucet	Rm 209	1.1	
112	Flush: 180 seconds	Faucet	Rm 209	1.0	
113a	Initial	Bubbler	Rm 185	1.3	
114b	Initial	Faucet	Rm 185	1.0	
114b	Flush: 30 seconds	Faucet	Rm 185	1.0	
115a	Initial	Faucet	Rm 187	1.7	
116b	Initial	Bubbler	Rm 187	2.9	
117a	Initial	Bubbler	Rm 188	1.0	
118b	Initial	Faucet	Rm 188	3.2	
119a	Initial	Faucet	Rm 186	2.7	
120b	Initial	Bubbler	Rm 186	1.5	
122b	Initial	Water Cooler	Outside restrooms	1.0	
122b	Flush: 30 seconds	Water Cooler	Outside restrooms	1.9	
123a	Initial	Bubbler	Rm 189	8.4	
124b	**Initial**	**Faucet**	**Rm 189**	**30.3**	**Remove, Replace & Retest, or Sign**
124b	**Flush: 30 seconds**	**Faucet**	**Rm 189**	**18.7**	
126b	Initial	Faucet	Rm 191	4.4	
127a	Initial	Bubbler	Rm 192	5.0	
128b	**Initial**	**Faucet**	**Rm 192**	**15.2**	**Remove, Replace & Retest, or Sign**
129a	Initial	Bubbler	Rm 193	6.9	
130b	Initial	Faucet	Rm 193	5.8	
130b	Flush: 30 seconds	Faucet	Rm 193	10.7	
131a	Initial	Bubbler	Rm 194	3.7	
132b	Initial	Faucet	Rm 194	5.2	
133a	Initial	Bubbler	Rm 196	3.2	
134b	Initial	Faucet	Rm 196	3.8	
135a	Initial	Bubbler	Rm 195	4.0	
136b	Initial	Faucet	Rm 195	8.4	
137a	Initial	Water Cooler	Back hall	1.0	
137a	Flush: 30 seconds	Water Cooler	Back hall	1.0	
138b	Initial	Water Cooler	Back hall	1.0	
138b	Flush: 30 seconds	Water Cooler	Back hall	1.0	
139a	Initial	Sprayer	Kitchen	2.7	
140b	Initial	Faucet	Kitchen	2.2	
140b	Flush: 30 seconds	Faucet	Kitchen	1.0	
141c	Flush: 30 seconds	Faucet, Hot	kitchen	2.0	
142a	Initial	Faucet	Rm 112	2.3	
143b	Initial	Bubbler	Rm 112	3.3	
144a	Initial	Water Cooler	Back hall	1.0	
144a	Flush: 30 seconds	Water Cooler	Back hall	1.0	
145b	Initial	Water Cooler	Back hall	1.0	
145b	Flush: 30 seconds	Water Cooler	Back hall	2.7	
146a	Initial	Faucet	Rm 116	3.3	
147b	**Initial**	**Bubbler**	**Rm 116**	**20.9**	**Take Fixture Offline, Replace Fixture**
147b	Flush: 30 seconds	Bubbler	Rm 116	5.2	
148a	Initial	Faucet	Rm 127	5.4	
149b	Initial	Bubbler	Rm 127	14.6	
150a	Initial	Faucet	Rm 132	1.0	
151b	Initial	Bubbler	Rm 132	1.0	
151b	Flush: 30 seconds	Bubbler	Rm 132	1.0	
152	Initial	Faucet	Rm 132	1.2	
153b	Initial	Water Cooler	Gym Hall	1.0	
153b	Flush: 30 seconds	Water Cooler	Gym Hall	1.0	
154c	Initial	Water Cooler	Gym Hall	1.0	
154c	Flush: 30 seconds	Water Cooler	Gym Hall	1.0	
155	**Initial**	**Bubbler**	**Gym**	**15.5**	**Take Fixture Offline, Replace Fixture**
155	Flush: 30 seconds	Bubbler	Gym	2.0	
156	Initial	Faucet	Rm 135	1.0	
157a	Initial	Faucet	Rm. 135	1.3	
158b	Initial	Bubbler	Rm 135	1.0	
159a	Initial	Faucet	Rm 144	1.0	
160b	Initial	Bubbler	Rm 144	1.0	
161a	Initial	Faucet	Rm 159	1.0	
162b	Initial	Bubbler	Front Hall	1.0	
162b	Flush: 30 seconds	Bubbler	Front Hall	1.0	
163a	Initial	Bubbler	Rn 162	1.3	
164b	Initial	Faucet	Rm 162	1.0	

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165a	Initial	Faucet	Rm 163	1.0	
166b	Initial	Bubbler	Rm 163	1.0	
166b	Flush: 30 seconds	Bubbler	Rm 163	1.0	
167a	Initial	Bubbler	Rm 166	1.0	
168b	Initial	Faucet	Rm 166	3.4	
169	Initial	Faucet	Rm 156	1.0	
170	Initial	Faucet	Rm 156	1.3	
170	Flush: 30 seconds	Faucet	Rm 156	1.0	
171b	Initial	Water Cooler	Front hall	1.0	
171b	Flush: 30 seconds	Water Cooler	Front hall	1.0	
172c	Initial	Water Cooler	Front Hall	1.0	
172c	Flush: 30 seconds	Water Cooler	Front Hall	1.0	
173	Initial	Faucet	rm 168	1.0	
173	Flush: 30 seconds	Faucet	rm 168	1.0	
174	Initial	Faucet	Rm 174	1.0	
175	Initial	Faucet	Rm 174	1.0	
501a	Initial	Bubbler	Rm 190	14.4	
502b	Initial	Faucet	Rm 190	7.7	
503a	Initial	Other	Gym Hall	1.0	
504a	Initial	Other	Front Hall	1.0	

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