



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

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May 9, 2018

Mr. Greg Guernsey, Principal  
Liberty Intermediate School  
50 W. 900 N.  
Chesterton, IN 46304

Re: Liberty Intermediate School Lead Sampling Program Results

Dear Mr. Guernsey:

On March 23, 2018, water samples were collected from 37 drinking water fixtures at Liberty Intermediate School and sent to a state-certified laboratory to be analyzed for the presence of lead. The laboratory determined that 10 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)*
116a	Water Cooler (main hallway)	Initial	28.3
		Flush: 30 seconds	20.5
117b	Water Cooler (main hallway)	Flush: 30 seconds	65.7
119b	Water Cooler (art hallway)	Flush: 30 seconds	84.5
120b	Water Cooler (library hallway)	Flush: 30 seconds	196
121c	Water Cooler (library hallway)	Flush: 30 seconds	188
122a	Water Cooler (main hallway)	Initial	50.8
123b	Water Cooler (main hallway)	Initial	59.0
125	Faucet (room 105, see schematic)	Initial	46.8
135	Water Cooler (music hallway)	Flush: 30 seconds	25.0
142a	Bottle Filling Station (library hall)	Initial	17.1

**\*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;

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4. Communicate with staff, students, and parents about sample results and remediation plans;
  - o **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

#### 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)

School Name: Liberty Intermediate School  
 School Code: 6821

Sample Collection Date: 03/26/2018  
 Analysis Date: 04/09/2018

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	kitchen	0.7	
101	Flush: 30 seconds	Water Cooler	kitchen	0.5	
102	Initial	Faucet	kitchen, see schematic	0.5	
102	Flush: 30 seconds	Faucet	kitchen, see schematic	0.5	
103a	Initial	Faucet	kitchen, see schematic	0.9	
103a	Flush: 30 seconds	Faucet	kitchen, see schematic	0.7	
103a	Flush: 180 seconds	Faucet	kitchen, see schematic	0.5	
104b	Flush: 30 seconds	Faucet	kitchen, see schematic, hot water	0.5	
105a	Initial	Kitchen Kettle, Cold	kitchen, see schematic	0.5	
105a	Flush: 30 seconds	Kitchen Kettle, Cold	kitchen, see schematic	0.5	
106b	Initial	Kitchen Kettle, Cold	kitchen, see schematic	0.5	
106b	Flush: 30 seconds	Kitchen Kettle, Cold	kitchen, see schematic	0.6	
107	Initial	Kitchen Kettle, Cold	kitchen, see schematic	0.9	
107	Flush: 30 seconds	Kitchen Kettle, Cold	kitchen, see schematic	0.5	
108a	Initial	Faucet	kitchen, see schematic	0.5	
108a	Flush: 30 seconds	Faucet	kitchen, see schematic	0.8	
109b	Flush: 30 seconds	Faucet	kitchen, see schematic, hot water	0.5	
110a	Initial	Faucet	servicing area, see schematic	1.0	
110a	Flush: 30 seconds	Faucet	servicing area, see schematic	0.5	
111b	Flush: 30 seconds	Faucet	servicing area, see schematic, hot water	0.5	
112a	Initial	Faucet	servicing area, see schematic	1.6	
112a	Flush: 30 seconds	Faucet	servicing area, see schematic	0.5	
113b	Flush: 30 seconds	Faucet	servicing area, see schematic, hot water	1.1	
114	Initial	Water Cooler	cafeteria	0.5	
114	Flush: 30 seconds	Water Cooler	cafeteria	0.9	
115b	Initial	Water Cooler	cafeteria	0.7	
115b	Flush: 30 seconds	Water Cooler	cafeteria	14.7	
116a	Initial	Water Cooler	main hallway	28.3	Remove or Replace & Retest
116a	Flush: 30 seconds	Water Cooler	main hallway	20.5	
117b	Initial	Water Cooler	main hallway	3.4	Remove or Replace & Retest
117b	Flush: 30 seconds	Water Cooler	main hallway	65.7	
118a	Initial	Water Cooler	art hallway	7.8	
118a	Flush: 30 seconds	Water Cooler	art hallway	0.9	
119b	Initial	Water Cooler	art hallway	3.3	Remove or Replace & Retest
119b	Flush: 30 seconds	Water Cooler	art hallway	84.5	
120b	Initial	Water Cooler	library hallway	2.9	Remove or Replace & Retest
120b	Flush: 30 seconds	Water Cooler	library hallway	196	
121c	Initial	Water Cooler	library hallway	3.9	Remove or Replace & Retest
121c	Flush: 30 seconds	Water Cooler	library hallway	188	
122a	Initial	Water Cooler	main hallway	50.8	
122a	Flush: 30 seconds	Water Cooler	main hallway	1.0	
123b	Initial	Water Cooler	main hallway	59.0	Remove or Replace & Retest
123b	Flush: 30 seconds	Water Cooler	main hallway	1.1	
124	Initial	Faucet	room 105, see schematic	2.8	
125	Initial	Faucet	room 105, see schematic	46.8	Remove, Replace & Retest, or Sign
126	Initial	Faucet	room 105, see schematic	2.0	
127	Initial	Faucet	room 105, see schematic	2.5	
128	Initial	Faucet	room 105, see schematic	7.7	
129	Initial	Faucet	room 105, see schematic	1.7	
130	Initial	Faucet	room 105, see schematic	7.1	
130	Flush: 30 seconds	Faucet	room 105, see schematic	0.5	
131	Initial	Bubbler	girls locker room	2.0	
131	Flush: 30 seconds	Bubbler	girls locker room	1.2	
133	Initial	Water Cooler	gym	1.1	
133	Flush: 30 seconds	Water Cooler	gym	0.5	
134	Initial	Water Cooler	music hallway	1.6	
134	Flush: 30 seconds	Water Cooler	music hallway	0.5	
135	Initial	Water Cooler	music hallway	0.5	Remove or Replace & Retest
135	Flush: 30 seconds	Water Cooler	music hallway	25.0	
136	Initial	Faucet	nurse office	6.6	
137	Initial	Faucet	bookstore	2.1	
137	Flush: 30 seconds	Faucet	bookstore	3.7	
138	Initial	Faucet	concessions	1.7	
138	Flush: 30 seconds	Faucet	concessions	0.5	
139a	Initial	Water Cooler	main hallway	2.5	
139a	Flush: 30 seconds	Water Cooler	main hallway	0.5	
140b	Initial	Water Cooler	main hallway	0.5	
140b	Flush: 30 seconds	Water Cooler	main hallway	1.4	
141a	Initial	Bottle Filling Station	Cafeteria	0.7	
142a	Initial	Bottle Filling Station	Library Hall	17.1	

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

School Name: Liberty Intermediate School  
School Code: 6821

Sample Collection Date: 03/26/2018  
Analysis Date: 04/09/2018

Lab Name: Element  
Detection Limit: 0.5 ppb

Column	Term	Description
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