

ENVIRONMENTAL CONSULTANTS, LLC

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May 18, 2017

Mr. Chad Wagner
Superintendent
Elmwood Community Unit School District #322
301 West Butternut Street
Elmwood, Illinois 61529

Subject: Results of Drinking Water Testing for Lead Content

**Site(s): Elmwood Grade School
301 West Butternut Street
Elmwood, Illinois 61529**

Dear Mr. Wagner,

On the morning of May 10, 2017, Environmental Consultants, LLC (EC) performed lead testing of multiple water sources at the Elmwood Grade School located at 301 West Butternut Street in Elmwood, Illinois. Sampling was performed by trained and licensed personnel in accordance with USEPA, HUD and State of Illinois Regulations and Guidelines.

All inspectors involved with sampling activities had EPA approved training in Lead. Certifications for our firm and the inspector collecting the samples is included as Appendix C to this document.

All samples were collected on a "first draw" basis. "First draw" is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate "worst case scenario" conditions. As such, EC inspectors met at the school at 6:30 a.m. to collect water samples before the systems were used by staff or students. A second sample from each water source was collected as a "follow up" sample basis. "Follow-up" sampling is achieved by allowing the water system to run for thirty (30) seconds after the first draw sampling. The intent of this sampling is to determine if lead contamination may be in the water lines connected to the water sources and not just at the fixture. Sampling was completed in accordance with the Illinois Senate Bill 550 requirements. The Illinois Department of Public Health (IDPH) and other regulatory agencies recommend that water sources run for at least thirty seconds and as long as two minutes prior to use to avoid settling within the water system.

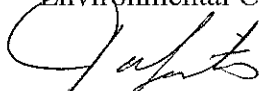
Drinking water samples were collected from fifteen (15) different locations throughout Elmwood Grade School during the sampling event. The water samples were collected from drinking fountains and sinks potentially utilized for cooking or drinking activities at the campus. After sample collection, samples were immediately iced down and delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP accredited and State of Illinois licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Appendix A of this report.

The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 micrograms per liter ($\mu\text{g/L}$). The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 microgram of lead per liter ($\mu\text{g/L}$). This reporting value equates to 1.0 parts per billion (ppb) of lead. The USEPA action level for lead in drinking water is 15.0 ppb for PSW. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. **All of the thirty-two (32) samples collected from the selected locations at the Elmwood Grade School reported sample results which were less than the action level.** This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results)

Although no samples were identified above the action level, EC recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

EC is pleased to provide this information to Ball-Chatham Community Unit School District #5 and we appreciate the opportunity to provide quality environmental consulting services. Please call us at (618) 343-3590 if you have any questions or to arrange a meeting to discuss.

Sincerely,
Environmental Consultants, LLC



Jim Yasitis
Principal

**Elmwood Grade School
301 West Butternut Street
Elmwood, Illinois 61529**

**Drinking Water Sampling for Lead Content
May 10, 2017**

Sample ID	Location	Water Source	Last Use	Collection Time	Results (ppb)
01	Kitchen – Left Dishwasher	Faucet	16:00	06:30	2.5
01A	Kitchen – Left Dishwasher	Faucet	16:00	06:30	<1.0
02	Kitchen – Three Bay, Left	Faucet	16:00	06:30	<1.0
02A	Kitchen – Three Bay, Left	Faucet	16:00	06:30	<1.0
03	Kitchen – Three Bay, Right	Faucet	16:00	06:30	<1.0
03A	Kitchen – Three Bay, Right	Faucet	16:00	06:30	<1.0
04	Kitchen – Right Dishwasher	Faucet	16:00	06:30	<1.0
04A	Kitchen – Right Dishwasher	Faucet	16:00	06:30	<1.0
05	Ice Machine	Service Line	16:00	06:30	<1.0
05A	Ice Machine	Service Line	16:00	06:30	<1.0
06	Kitchen – Hand Sink	Faucet	16:00	06:30	<1.0
06A	Kitchen – Hand Sink	Faucet	16:00	06:30	<1.0
07	Serving Area Three Bay, Left	Faucet	16:30	06:45	<1.0
07A	Serving Area Three Bay, Left	Faucet	16:30	06:45	<1.0
08	Serving Area Three Bay, Right	Faucet	16:30	06:45	<1.0
08A	Serving Area Three Bay, Right	Faucet	16:30	06:45	<1.0
09	Serving Area Dishwasher	Faucet	16:30	06:45	<1.0

Sample ID	Location	Water Source	Last Use	Collection Time	Results (ppb)
09A	Serving Area Dishwasher	Faucet	16:30	06:45	<1.0
10	Serving Area Hand Sink	Faucet	16:30	06:45	<1.0
10A	Serving Area Hand Sink	Faucet	16:30	06:45	<1.0
11	Restroom – Left	Fountain	16:45	07:00	<1.0
11A	Restroom – Left	Fountain	16:45	07:00	<1.0
12	Restroom – Right	Fountain	16:45	07:00	<1.0
12A	Restroom – Right	Fountain	16:45	07:00	<1.0
13	Teacher’s Lounge	Faucet	16:45	07:00	<1.0
13A	Teacher’s Lounge	Faucet	16:45	07:00	<1.0
14	Restroom – Left	Fountain	16:45	07:00	<1.0
14A	Restroom – Left	Fountain	16:45	07:00	<1.0
15	Restroom – Right	Fountain	16:45	07:00	<1.0
15A	Restroom – Right	Fountain	16:45	07:00	<1.0

“A” Samples were samples collected at 30 seconds following the “first draw” samples (A).

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Water source is above 5ppb and displays evidence of lead. The Illinois Senate Bill 550 requires the district to send written notification to parents and staff of any water sources above 5 ppb. The remaining water sampling sources shall be placed in writing or accessible on the district website.