

Pennoyer School District 79

Lead Mitigation and Flushing Protocols

November 2021

Committee Members

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The testing is required by The Lead in Drinking Water Testing Bill (SB550) which was signed into law by Governor Bruce Rauner effective January 17, 2017.

SB 550 requires elementary school buildings constructed prior to January 1, 2000 serving 5th grade and below to test the following sources;

- Drinking fountain and drinking sources in buildings
- Classroom sinks in classrooms under 1st grade (kindergarten and pre-kindergarten)

As safety is the top priority at Pennoyer School, all water sources were tested.

SB550 requires the District to provide notification to parents identifying each location with a detected concentration exceeding 5.0 ppb. The concentrations of lead in samples at the following location(s) exceeded 5.0 ppb;

Drinking Fountains	Sinks
1st Floor Hallway outside Room 104	1st Floor Room 105
1st Floor Hallway outside Room 99	2nd Floor Room 228
2nd Floor Hallway outside Room 220	Lower Level Girls East Restroom
Lower Level outside Room 130	
Lower Level Hallway outside of LRC	

None of the samples listed above exceeded the EPA's recommended action level of 20.0 ppb of lead in drinking water.[GBI2]

Based upon the results of this testing the District is taking the following steps;

1. The water to the sinks mentioned above has been shut off.
2. A committee of Pennoyer faculty, parents, community members and the Village of Norridge will be formed and an action plan will be developed.

Water testing followed protocol recommended by Illinois Department of Public Health (IDPH) and SD550 . All water sources have two samples collected. The first collection at each source is a "first draw" sample. Water collection occurs in first draw samples after sources were unused for at least eight (8) hours. The second sample at that source is collected after 30 seconds of flushing. The two (2) samples are intended to help identify if any concentrations are originating from the fixture or the potable water piping leading to the fixture.

Lead most frequently gets into drinking water by leaching from plumbing materials and fixtures as water moves through a school's distribution system. Even though the drinking water you receive from the water supplier may meet federal and state standards for lead, your facility may have elevated lead levels due to plumbing materials and water use patterns. Leaching can occur for several reasons but the most significant is corrosion which can occur if water is acidic.

Lead in new plumbing and plumbing repairs was banned in 1986. This ban did not entirely eliminate lead as 0.2% lead is still allowed in solder and 8% lead is allowed in piping systems. Pre-1986 plumbing systems have a higher potential to leach lead into drinking water.

Lead is a toxic metal that is harmful to human health. Young children, those 6 years and younger, are at particular risk for lead exposure because they have frequent hand-to-mouth activity and absorb lead more easily than do adults. Children's nervous systems are still undergoing development and thus are more susceptible to the effects of toxic agents. Lead is also harmful to the developing fetuses of pregnant women.

While there is no known safe level of lead in drinking water the guidance lists a recommended action level of 20.0 parts per billion (ppb) of lead. Effectively when lead concentrations are at 20.0 ppb or greater some action should be taken to reduce the concentration in the affected outlets.

Mitigation Plan

Drinking Fountains	Sinks
1st Floor Hallway outside Room 104	1st Floor Room 105
1st Floor Hallway outside Room 99	2nd Floor Room 228
2nd Floor Hallway outside Room 220	Lower Level Girls East Restroom
Lower Level outside Room 130	
Lower Level Hallway outside of LRC	

The above water sources have been shut off and are not available for use. The School District is in the process of capping these water sources off.

Flushing Plan and Protocols

Flushing of all water sources will be every Monday morning or Tuesday morning in the event we have a Monday off of school. All sources of water will need to be flushed for 2 full minutes.