

Lead in Drinking Water – Public and Nonpublic Schools

IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT

Patterson Mill Middle High School

ELEVATED LEAD WATER SAMPLE RESULT

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations. On October 2, 3, 4, and 5, 2018, one hundred fifty-six (156) lead water samples were collected from Patterson Mill Middle High School. Of these lead water samples, **thirty one** had levels of lead exceeding the action level of 20 parts per billion (ppb) for lead in drinking water in school buildings. The elevated lead results from the samples collected at Patterson Mill Middle High School were as follows:

21.9 parts per billion (ppb) **E112 sink, third left, right**
21.7 parts per billion (ppb) **E112 sink, back wall, left, right**
38.1 parts per billion (ppb) **E112 sink, right wall, second right, left**
21.1 parts per billion (ppb) **E112 sink, right wall, second right, right**
31.1 parts per billion (ppb) **E112 sink, right wall, right, left**
312 parts per billion (ppb) **E112 sink, right wall, right, right**
25.4 parts per billion (ppb) **E129 sink, across from E126, left wall left, right**
25.3 parts per billion (ppb) **E129 sink, across from E126, left wall right, left**
27.1 parts per billion (ppb) **E129 sink, across from E126, left wall right, right**
21.0 parts per billion (ppb) **E129 sink, across from E126, right wall fourth right, left**
23.2 parts per billion (ppb) **E129 sink, across from E126, right wall fourth right, right**
58.2 parts per billion (ppb) **E129 sink, across from E126, right wall, second right, right**
281 parts per billion (ppb) **F102 across from F116, left, right**
53.5 parts per billion (ppb) **F102 across from F116, third left, right**
93.0 parts per billion (ppb) **F102 across from F116, back wall, right, right**
23.7 parts per billion (ppb) **F123, across from F125, left wall, left**
68.8 parts per billion (ppb) **F123, across from F125, left wall, left right**
36.7 parts per billion (ppb) **F123, across from F125, second left, left**
217 parts per billion (ppb) **G124 sink, across from G126, second left**
22.5 parts per billion (ppb) **G124 sink, across from G126, third left**
28.8 parts per billion (ppb) **E227 sink, across from restroom, left, left**
21.8 parts per billion (ppb) **E227 sink, across from restroom, third left, left**
21.2 parts per billion (ppb) **E227 sink, across from restroom, third left, right**
34.9 parts per billion (ppb) **F209, across from F223, fourth left, left**
37.1 parts per billion (ppb) **F209, across from F223, back wall, right, left**
20.4 parts per billion (ppb) **F209, across from F223, right, right**
21.8 parts per billion (ppb) **F229, across from F202, left, right**
27.5 parts per billion (ppb) **F229, across from F202, second left, left**
21.5 parts per billion (ppb) **F229, across from F202, first right, left**
21.8 parts per billion (ppb) **G217, across from G231, second left, left**
42.5 parts per billion (ppb) **G236, across from G206, left, left**

ACTION LEVEL (AL)

The AL is 20 ppb for lead in drinking water in school buildings. The AL is the concentration of lead which, if exceeded, triggers required remediation.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red

blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, and cosmetics, exposure in the work place and exposure from certain hobbies, brass faucets, fittings, and valves. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

IMMEDIATE ACTIONS TAKEN

Results were received on April 25, 2019. Handwash only signs were placed at the sinks.

NEXT STEPS

At this time our remedial action is to use these sinks for hand washing only.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

Please note that boiling the water will not reduce lead levels.

ADDITIONAL INFORMATION

1. For additional information, please contact **Patti Jo Beard, Harford County Public Schools**, at **410-638-4088**. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.