

Lead in Drinking Water – Public and Nonpublic Schools

IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT **Center for Educational Opportunity**

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 December 15, 2018, and January 3, 2019, one hundred thirty-eight (138) lead water samples were collected from the Center for Educational Opportunity. Of these lead water samples, **forty-four** 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 the Center for Educational Opportunity were as follows:

43.4 parts per billion (ppb) **Room 142 sink**
28.5 parts per billion (ppb) **Room 141 sink**
23.9 parts per billion (ppb) **Girl's locker room office restroom sink**
48.6 parts per billion (ppb) **Girl's locker room restroom, right sink**
39.4 parts per billion (ppb) **Work room restroom, left sink**
20 parts per billion (ppb) **Room 122 sink**
36.1 parts per billion (ppb) **Room 121 fountain**
32.7 parts per billion (ppb) **Room 120 sink**
3890 parts per billion (ppb) **Room 119 sink**
137 parts per billion (ppb) **Room 111 right sink**
25.2 parts per billion (ppb) **Room 110, third left sink**
69.7 parts per billion (ppb) **Room 110, fourth left sink**
171 parts per billion (ppb) **Room 110, right sink**
683 parts per billion (ppb) **Room 109, first left sink**
27 parts per billion (ppb) **Room 109, third left sink**
34.8 parts per billion (ppb) **Room 131 sink**
54.2 parts per billion (ppb) **Room 124, left side, left sink**
28.4 parts per billion (ppb) **Room 124, left side, right sink**
22.4 parts per billion (ppb) **Health suite Room 116 sink**
23.8 parts per billion (ppb) **Room 7 teacher's desk sink**
42.8 parts per billion (ppb) **Room 5, teacher's desk sink**
55.2 parts per billion (ppb) **Room 5, left wall, first station, left sink**
51.8 parts per billion (ppb) **Room 5, left wall, first station, right sink**
53.8 parts per billion (ppb) **Room 5, left wall, second station, left sink**
54.8 parts per billion (ppb) **Room 5, left wall, second station right sink**
93.6 parts per billion (ppb) **Room 5, left wall, third station, left sink**
49.2 parts per billion (ppb) **Room 5, left wall, third station, right sink**
267 parts per billion (ppb) **Room 5, back wall, left station, left sink**
231 parts per billion (ppb) **Room 5, back wall, left station, right sink**
94.8 parts per billion (ppb) **Room 5, back wall, middle station, left sink**
108 parts per billion (ppb) **Room 5, back wall, middle station, right sink**
65.4 parts per billion (ppb) **Room 5, back wall, right station, left sink**
60.2 parts per billion (ppb) **Room 5, back wall, right station, right sink**
131 parts per billion (ppb) **Room 5, right wall, right station, left sink**
70.3 parts per billion (ppb) **Room 5, right wall, right station, right sink**
27.9 parts per billion (ppb) **Girl's restroom across from Room 5, second left sink**
27 parts per billion (ppb) **Girl's restroom across from Room 5, second right sink**
241 parts per billion (ppb) **Girl's restroom across from Room 5, right sink**
94.1 parts per billion (ppb) **Boy's restroom across from Room 5, left sink**

24.5 parts per billion (ppb) **Boy's restroom across from Room 5, second left sink**

119 parts per billion (ppb) **Planetarium drinking fountain, lobby**

23 parts per billion (ppb) **Planetarium Boy's restroom sink**

93.7 parts per billion (ppb) **Annex drinking fountain, left**

56.4 parts per billion (ppb) **Annex 144 drinking fountain, right**

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 June 26, 2019. Handwash only signs were placed at the sinks. Fountains were turned off. Sinks that are no longer used were turned off.

NEXT STEPS

At this time our remedial action is to use these sinks for hand washing only. Drinking fountains that are replaced and tested will be placed back into service after passing the test.

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.