

Montgomery County Public Schools Lead in Drinking Water Testing Report

Herbert Hoover Middle School
8810 Postoak Road
Potomac, MD 20854

Report Date: April 2nd, 2020

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

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 (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	3/10/2020
# of Outlets Tested	55
# of Outlets \geq 5 ppb	0

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

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, cosmetics, exposure in the work place and from certain hobbies. 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.

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 Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. 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.
3. 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.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Herbert Hoover MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05629	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05630	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05631	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05632	In hallway across from CR 168	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05633	In hallway across from CR 168	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05634	In team room 161	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05637	In hallway next to 33	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05638	In hallway across from gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05639	In team room 24	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30909	In hallway across from CR 182 in hallway behind CR 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30910	In hallway across from CR 182 in hallway behind CR 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30913	In classroom 180 by office	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30914	In classroom 180	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30916	In team 154	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30917	In hallway next to CR 145 sciencelab	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30918	In hallway next to CR 145 sciencelab	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30928	In hallway across from 136 staff development	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30929	In hallway across from 136 staff development	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30930	In health room 115 by administration	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M30934	In work room 114 by admin ie. inside admin	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30938	In work room 138B by media center ie. inside 138 IMC	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30939	In hallway across from CR 194 Choral	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30940	In hallway across from CR 194 Choral	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30941	In Inst music 195	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30945	In kitchen left Corner	Kitchen Sink	<1	Pass	N/A	Testing Complete
M30947	In kitchen middle	Kitchen Sink	<1	Pass	N/A	Testing Complete

M30949	In kitchen back side of kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M30952	In kitchen by kitchen ie. right side of kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M30953	In kitchen right corner	Kitchen Sink	<1	Pass	N/A	Testing Complete
M30955	In kitchen by kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
M30956	In hallway across from 188 lounge	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30957	In hallway across from 188 lounge	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30958	In hallway across from 188 lounge	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30959	In hallway across from 188 lounge	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30960	In break room 188	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M30970	In break room 199 by BS office	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M30973	In team 219	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30974	In classroom 218	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30975	In hallway across from CR 207	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30976	In hallway across from CR 207	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30985	In team 201	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30986	In team 206	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M30997	In hallway across from 007 computer	Drinking Fountain	<1	Pass	N/A	Testing Complete
M30998	In hallway across from 007 computer	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31000	In specialty 17	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M31001	In hallway next to CR 033	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31006	In hallway across from gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31009	In boys locker room 44	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31015	In girls locker room 45	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31016	In girls locker room 45	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31022	In hallway next to GLR across from gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31023	In hallway next to GLR across from gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31027	In hallway across from 039 Aux gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31028	In hallway across from 039 Aux gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M31008	In boys locker room 44	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Herbert Hoover Middle School

8810 Postoak Road

Potomac, Maryland 20854

Date of Test Report:	3/27/2017
Round of Testing:	Initial
# of Outlets Tested:	36
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	1.0

Project Status:

Initial testing complete: All results less than 20 ppb.



3/27/2017

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634189

Location: Herbert Hoover Middle School

8810 Postoak Road
Potomac, Maryland 20854

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of Initial lead in water testing at Herbert Hoover Middle School, located at 8810 Postoak Road in Potomac, Maryland 20854.

SCOPE OF SERVICES

KCI conducted lead in water testing at Herbert Hoover Middle School in accordance with the Environmental Protection Agency (EPA) and Maryland House Bill (HB) 270. State regulation established an action level of 20 parts per billion (ppb) to evaluate lead levels in school buildings, a concentration EPA recommends that schools take action to reduce lead below this action level. Maryland requires periodic testing for the presence of lead in drinking water in occupied public and nonpublic school buildings. EPA developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

KCI visited the site on 3/7/2018 and 3/8/2018 to collect samples from 36 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water - Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

RESULTS

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 3/8/2018 are shown in Attachment A.

DISCUSSION

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,
KCI Technologies, Inc.



Kamau McAbee
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Herbert Hoover Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05629		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05630		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05631		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05632		Hallway	Across From Cr 168	Cooler	<1.0	Pass	Testing Complete
LW05633		Hallway	Across From Cr 168	Cooler	<1.0	Pass	Testing Complete
LW05634	161	Team Room		Faucet	<1.0	Pass	Testing Complete
LW05637		Hallway	Next To Rm 33	Cooler	<1.0	Pass	Testing Complete
LW05638		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW05639	024	Team Room		Faucet	<1.0	Pass	Testing Complete
M30909		Hallway	Across from CR 182 in Hallway behind CR 174	Cooler	<1.0	Pass	Testing Complete
M30910		Hallway	Across from CR 182 in Hallway behind CR 174	Cooler	<1.0	Pass	Testing Complete
M30913	180	Classroom Office		Faucet	<1.0	Pass	Testing Complete
M30914	180	Classroom		Faucet	<1.0	Pass	Testing Complete
M30916	154	Team Rm		Faucet	<1.0	Pass	Testing Complete
M30917		Hallway	Next to CR 145 Science Lab	Cooler	<1.0	Pass	Testing Complete
M30918		Hallway	Next to CR 145 Science Lab	Cooler	<1.0	Pass	Testing Complete
M30928		Hallway	Across from Rm 136 Staff Development	Cooler	<1.0	Pass	Testing Complete
M30929		Hallway	Across from Rm 136 Staff Development	Cooler	<1.0	Pass	Testing Complete
M30930	115	Health Room Administration		Faucet	<1.0	Pass	Testing Complete
M30934	114	Work Room Admin	inside Admin	Faucet	<1.0	Pass	Testing Complete
M30938	138B	Work Room Media Center	inside 138 IMC	Faucet	<1.0	Pass	Testing Complete
M30939		Hallway	Across from CR 194 Choral	Cooler	<1.0	Pass	Testing Complete
M30940		Hallway	Across from CR 194 Choral	Cooler	<1.0	Pass	Testing Complete
M30941	195	Inst Music		Faucet	<1.0	Pass	Testing Complete
M30945		Kitchen	Left Corner	Faucet	<1.0	Pass	Testing Complete
M30947		Kitchen	Middle	Faucet	<1.0	Pass	Testing Complete
M30949		Kitchen	Back side of Kitchen	Faucet	<1.0	Pass	Testing Complete
M30952		Kitchen Kitchen	Right side of Kitchen	Faucet	<1.0	Pass	Testing Complete
M30953		Kitchen	Right corner	Faucet	1	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M30955		Kitchen Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M30956		Hallway	Across from Rm 188 Lounge	Cooler	<1.0	Pass	Testing Complete
M30957		Hallway	Across from Rm 188 Lounge	Cooler	<1.0	Pass	Testing Complete
M30958		Hallway	Across from Rm 188 Lounge	Cooler	<1.0	Pass	Testing Complete
M30959		Hallway	Across from Rm 188 Lounge	Cooler	<1.0	Pass	Testing Complete
M30960	188	Break Room		Faucet	<1.0	Pass	Testing Complete
M30970	199	Break Room BS Office		Faucet	<1.0	Pass	Testing Complete
M30973	219	Team Rm		Faucet	<1.0	Pass	Testing Complete
M30974	218	Classroom		Faucet	<1.0	Pass	Testing Complete
M30975		Hallway	Across from CR 207	Cooler	<1.0	Pass	Testing Complete
M30976		Hallway	Across from CR 207	Cooler	<1.0	Pass	Testing Complete
M30985	201	Team Rm		Faucet	<1.0	Pass	Testing Complete
M30986	206	Team Rm		Faucet	<1.0	Pass	Testing Complete
M30997		Hallway	Across from 007 Computer	Cooler	<1.0	Pass	Testing Complete
M30998		Hallway	Across from 007 Computer	Cooler	<1.0	Pass	Testing Complete
M31000	17	Specialty Rm		Faucet	<1.0	Pass	Testing Complete
M31001		Hallway	Next to CR 033	Cooler	<1.0	Pass	Testing Complete
M31006		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
M31009	44	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M31015	45	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M31016	45	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M31022		Hallway	Next to GLR Across from Gym	Cooler	<1.0	Pass	Testing Complete
M31023		Hallway	Next to GLR Across from Gym	Cooler	<1.0	Pass	Testing Complete
M31027		Hallway	Across from 039 Aux Gym	Cooler	<1.0	Pass	Testing Complete
M31028		Hallway	Across from 039 Aux Gym	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion