

Montgomery County Public Schools Lead in Drinking Water Testing Report

Highland View Elementary School
3100 Medway Street
Silver Spring, MD 20902

Report Date: April 7th, 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	2/14/2020
# of Outlets Tested	51
# of Outlets \geq 5 ppb	1

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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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 Highland View ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW04683	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04684	In health room by office	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW04685	In health room by office	Classroom Combination Drinking Fountain	26.4	Fail	NC	Remediation Action Plan
LW04686	In work room by office	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04687	In hallway across from room 111	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04690	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW04692	In music 105	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04693	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04694	In classroom 21	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04695	In classroom 21	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04696	In classroom 22	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04697	In classroom 22	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04698	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04699	In classroom 3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04700	In classroom 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04701	In hallway across from room 8	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04702	In classroom 14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04703	In classroom 15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04704	In classroom 15	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04706	In classroom 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04707	In classroom 209	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04708	In classroom 211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04709	In classroom 212	Classroom Combination Drinking Fountain	3.7	Pass	N/A	Testing Complete
LW04710	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04711	In classroom 215	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04712	In hallway next to room 303	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04713	In classroom 316	Classroom Sink	<1	Pass	N/A	Testing Complete

LW05282	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M25024	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M25026	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M25040	In classroom 14	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25043	In classroom 5	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25046	In classroom 3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M25047	In classroom 23	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25070	In classroom 205	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25071	In classroom 205	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
M25074	In classroom 211	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25076	In classroom 213	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25077	In classroom 213	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M25078	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25081	In classroom 215	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M25082	In classroom 212	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25084	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25085	In classroom 210	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
M25088	In classroom 206	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25089	In classroom 206	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M25098	In work room 301B by media center	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25099	In work room 301B by media center	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M25102	In classroom 311	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M25103	In classroom 311	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Highland View Elementary School

9010 Providence Avenue

Silver Spring, Maryland 20901

Date of Test Report:	3/19/2018
Round of Testing:	Initial
# of Outlets Tested:	55
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	10.9

Project Status:

Initial testing complete: All results less than 20 ppb.



3/19/2018

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

Re: Drinking Water Testing

KCI Job #1214634186

Location: Highland View Elementary School

9010 Providence Avenue
Silver Spring, Maryland 20901

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 Highland View Elementary School, located at 9010 Providence Avenue in Silver Spring, Maryland 20901.

SCOPE OF SERVICES

KCI conducted lead in water testing at Highland View Elementary 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 2/20/2018 and 2/21/2018 to collect samples from 55 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 2/21/2018 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 Highland View Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04683		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04684		Health Room Office		Faucet	4.9	Pass	Testing Complete
LW04685		Health Room Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04686		Work Room Office		Faucet	1.4	Pass	Testing Complete
LW04687		Hallway	Across From Room 111	Cooler	<1.0	Pass	Testing Complete
LW04688	104	Art		Faucet	8.1	Pass	Testing Complete
LW04689		Art		Faucet	1.8	Pass	Testing Complete
LW04690		Break Room		Faucet	1.8	Pass	Testing Complete
LW04691	105	Music		Faucet	7.2	Pass	Testing Complete
LW04692	105	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04693		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW04694	21	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04695	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04696	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04697	22	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
LW04698	23	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
LW04699	3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04700	5	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW04701		Hallway	Across From Room 8	Cooler	<1.0	Pass	Testing Complete
LW04702	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04703	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04704	15	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04705		Hallway	Next To Room 207	Cooler	2.8	Pass	Testing Complete
LW04706	209	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW04707	209	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04708	211	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW04709	212	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04710	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04711	215	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04712		Hallway	Next To Room 303	Cooler	<1.0	Pass	Testing Complete
LW04713	316	Classroom		Faucet	3	Pass	Testing Complete
LW05282		Kitchen		Faucet	<1.0	Pass	Testing Complete
M25024		Kitchen		Faucet	3.5	Pass	Testing Complete
M25026		Kitchen		Faucet	1.2	Pass	Testing Complete
M25040	14	Classroom		Faucet	<1.0	Pass	Testing Complete
M25043	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M25046	3	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
M25047	23	Classroom		Faucet	<1.0	Pass	Testing Complete
M25070	205	Classroom		Faucet	<1.0	Pass	Testing Complete
M25071	205	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
M25074	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M25076	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M25077	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25078	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M25081	215	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
M25082	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M25084	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M25085	210	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
M25088	206	Classroom		Faucet	<1.0	Pass	Testing Complete
M25089	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25098	301B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M25099	301B	Work Room Media Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25100	309	Classroom		Faucet	10.9	Pass	Testing Complete
M25102	311	Classroom		Faucet	<1.0	Pass	Testing Complete
M25103	311	Classroom		Bubbler - Indoor	2	Pass	Testing Complete

*PPB = parts per billion