

Montgomery County Public Schools Lead in Drinking Water Testing Report

Francis Scott Key Middle School
910 Schindler Drive
Silver Spring, MD 20903

Report Date: April 7th, 2022

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	11/04/2021
# of Outlets Tested	41
# of Outlets \geq 5 ppb	6

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 Francis Scott Key MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05891	In team room 139	Teachers Lounge Sink	3.7	Pass	N/A	Testing Complete
LW05892	In hallway adjacent to 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05893	In girls locker room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05894	In boys locker room 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05895	In boys locker room 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05896	In health room 106	Nurses Office Sink	2.1	Pass	N/A	Testing Complete
LW05897	In administration work room 100A	Teachers Lounge Sink	1.6	Pass	N/A	Testing Complete
LW05898	In media center work room 101B	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05899	In office 249	Teachers Lounge Sink	3.4	Pass	N/A	Testing Complete
LW05900	In hallway adjacent to 201	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05901	In team room 212	Teachers Lounge Sink	1.8	Pass	N/A	Testing Complete
LW10620	In hallway adjacent to multipurpose room 175	Bottle Filler	<1	Pass	N/A	Testing Complete
M50134	In hallway adjacent to girls locker room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50137	In girls locker room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50152	In hallway adjacent to 117	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50153	In hallway adjacent to 117	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50162	In hallway adjacent to 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50163	In hallway adjacent to 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50174	In home economics 186	Classroom Sink	122	Fail	<1	Testing Complete
M50175	In home economics 186	Classroom Sink	25.6	Fail	11.5	Testing Complete
M50176	In home economics 186	Classroom Sink	9.5	Fail	2.0	Testing Complete
M50177	In home economics 186	Classroom Sink	5.9	Fail	<1	Testing Complete
M50178	In home economics 186	Classroom Sink	23.5	Fail	<1	Testing Complete
M50179	In hallway adjacent to 173	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50180	In hallway adjacent to 173	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50187	In kitchen 187	Kitchen Sink	<1	Pass	N/A	Testing Complete
M50190	In kitchen 187	Kitchen Sink	2.1	Pass	N/A	Testing Complete
M50191	In kitchen 187	Kitchen Sink	<1	Pass	N/A	Testing Complete
M50192	In kitchen 187	Kitchen Sink	1.8	Pass	N/A	Testing Complete
M50193	In kitchen 187	Kitchen Sink	<1	Pass	N/A	Testing Complete

M50194	In kitchen 187	Kitchen Sink	<1	Pass	N/A	Testing Complete
M50202	In hallway adjacent to 175	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50203	In hallway adjacent to 175	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50211	In kitchen 187	Ice Machine	<1	Pass	N/A	Testing Complete
M50216	In hallway adjacent to 201	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50218	In office 210	Teachers Lounge Sink	7.7	Fail	<1	Testing Complete
M50221	In hallway adjacent to 234	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50222	In hallway adjacent to 234	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50225	In team room 247	Teachers Lounge Sink	1.5	Pass	N/A	Testing Complete
M50231	In hallway adjacent to 262	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50232	In hallway adjacent to 262	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 4, 2018

Executive Summary:

Francis Scott Key Middle School

910 Schindler Drive

Silver Spring, Maryland 20903

Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	17.1

Project Status:

Testing Complete: All results less than 20 ppb.



May 4, 2018

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

Re: Drinking Water Testing

KCI Job #1214634191

Location: Francis Scott Key Middle School

910 Schindler Drive
Silver Spring, Maryland 20903

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 Francis Scott Key Middle School, located at 910 Schindler Drive in Silver Spring, Maryland 20903.

SCOPE OF SERVICES

KCI conducted lead in water testing at Francis Scott Key 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 4/9/2018 and 4/10/2018 to collect samples from 47 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 4/10/2018 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

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Francis Scott Key Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05890	137	Team Room		Faucet	11.0	Pass	Testing Complete
LW05891	139	Team Room		Faucet	1.5	Pass	Testing Complete
LW05892	128	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05893	128	Locker Room - Girls	Inside Of	Cooler	<1.0	Pass	Testing Complete
LW05894	116	Locker Room - Boys	Inside Of	Cooler	<1.0	Pass	Testing Complete
LW05895	116	Locker Room - Boys	Inside Of	Cooler	<1.0	Pass	Testing Complete
LW05896	106	Health Room		Faucet	1.5	Pass	Testing Complete
LW05897	100A	Work Room Administration		Faucet	1.5	Pass	Testing Complete
LW05898	101B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW05899	249	Office		Faucet	2.9	Pass	Testing Complete
LW05900	201	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05901	212	Team Room		Faucet	1.5	Pass	Testing Complete
M50134	128	Hallway	Next to GLR 128	Cooler	<1.0	Pass	Testing Complete
M50137	128	Girls Locker Room	Inside Of	Cooler	<1.0	Pass	Testing Complete
M50147	116	Locker Room - Boys	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50148	116	Locker Room - Boys	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50149	141	Office		Faucet	5.1	Pass	Testing Complete
M50152	117	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50153	117	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50162	174	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50163	174	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50173	186	Home Economics		Faucet	1.2	Pass	Testing Complete
M50174	186	Home Economics		Faucet	4.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M50175	186	Home Economics		Faucet	<1.0	Pass	Testing Complete
M50176	186	Home Economics		Faucet	3.2	Pass	Testing Complete
M50177	186	Home Economics		Faucet	<1.0	Pass	Testing Complete
M50178	186	Home Economics		Faucet	3.7	Pass	Testing Complete
M50179	173	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50180	173	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50187	187	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M50188	187	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M50189	187	Kitchen Cafeteria		Faucet	17.1	Pass	Testing Complete
M50190	187	Kitchen Cafeteria		Faucet	1.6	Pass	Testing Complete
M50191	187	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M50192	187	Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
M50193	187	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M50194	187	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M50202	175	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50203	175	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50211	187	Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete
M50216	201	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M50218	210	Office		Faucet	2.2	Pass	Testing Complete
M50221	234	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50222	234	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M50225	247	Team Room		Faucet	1.1	Pass	Testing Complete
M50231	262	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
M50232	262	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion