

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Somerset Elementary School
5811 Warwick Place
Chevy Chase, MD 20815**

Report Date: July 27th, 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	05/27/2022
# of Outlets Tested	58
# of Outlets \geq 5 ppb	3

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 Somerset ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW06253	In hallway 1 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06254	In hallway 1 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06257	In classroom 128	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW06258	In classroom 128	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW06259	In classroom 113	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06262	In classroom 205	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW06266	In classroom 315	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06267	In classroom 315	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06268	In classroom 313	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06269	In classroom 313	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
LW06271	In classroom 323	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06272	In classroom 323	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06273	In classroom 307	Classroom Combination Sink	2.4	Pass	N/A	Testing Complete
LW06274	In classroom 307	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10843	In hallway next to 311	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10844	In hallway across from classroom 210	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10845	In hallway across from elevator	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10846	In hallway across from elevator	Bottle Filler	<1	Pass	N/A	Testing Complete
M06470	In health room 122 by health	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M06472	In work room 100C by admin	Teacher's Lounge Sink	2.4	Pass	N/A	Testing Complete
M06477	In classroom 131	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M06479	In classroom 125	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06481	In classroom 123	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06485	In classroom 135	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06486	In classroom 135	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M06502	In work room 101A by media center	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M06503	In classroom 208	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06504	In classroom 208	Classroom Combination Drinking Fountain	7.0	Fail	N/A	Testing Complete
M06509	In classroom 207	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06510	In classroom 207	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M06511	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M06512	In classroom 210	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
M06513	In classroom 212	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06514	In classroom 212	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
M06518	In classroom 211	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
M06519	In classroom 211	Classroom Combination Drinking Fountain	3.4	Pass	N/A	Testing Complete
M06520	In classroom 213	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06521	In classroom 213	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
M06522	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06524	In classroom 216	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06525	In classroom 216	Classroom Combination Drinking Fountain	8.2	Fail	N/A	Testing Complete
M06528	In classroom 221	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06529	In classroom 221	Classroom Combination Drinking Fountain	4.0	Pass	N/A	Testing Complete
M06533	In classroom 218	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06534	In classroom 218	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M06538	In classroom 17	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06539	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M06541	In classroom 32	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06542	In classroom 32	Classroom Combination Drinking Fountain	5.4	Fail	N/A	Testing Complete
M06548	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06549	In classroom 11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M06555	In classroom 15	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M06569	In classroom 9	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
M06570	In classroom 9	Classroom Combination Drinking Fountain	2.6	Pass	N/A	Testing Complete
M06572	In kitchen by kitchen	Kitchen Sink	1.3	Pass	N/A	Testing Complete
M06573	In kitchen by kitchen	Kitchen Sink	3.7	Pass	N/A	Testing Complete
M06574	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M06575	In kitchen by kitchen	Kitchen Sink	4.1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 26, 2018

Executive Summary:

Somerset Elementary School

5811 Warwick Place

Chevy Chase, Maryland 20815

Round of Testing:	Initial
# of Outlets Tested:	66
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	1.4

Project Status:

Testing Complete: All results less than 20 ppb.



June 26, 2018

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

Re: Drinking Water Testing

KCI Job #1214634193

Location: Somerset Elementary School

5811 Warwick Place
Chevy Chase, Maryland 20815

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 Somerset Elementary School, located at 5811 Warwick Place in Chevy Chase, Maryland 20815.

SCOPE OF SERVICES

KCI conducted lead in water testing at Somerset 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 4/26/2018 and 4/27/2018 to collect samples from 66 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 4/27/2018 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 Somerset Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06253	1	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06254	1	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06255	28	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06256	28	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06257	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06258	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06259	113	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06260	229	Classroom		Cooler	<1.0	Pass	Testing Complete
LW06261	229	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06262	205	Classroom		Faucet	1.4	Pass	Testing Complete
LW06263	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06264	207	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06265	207	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06266	315	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06267	315	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06268	313	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06269	313	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06270	313	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06271	323	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06272	323	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06273	307	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06274	307	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06275	131	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06276	131	Classroom	Across From	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06470	122	Health Room		Faucet	<1.0	Pass	Testing Complete
M06472	100C	Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M06477	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M06479	125	Classroom		Faucet	<1.0	Pass	Testing Complete
M06481	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M06482	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06485	135	Classroom		Faucet	1.2	Pass	Testing Complete
M06486	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06502	101A	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M06503	208	Classroom		Faucet	<1.0	Pass	Testing Complete
M06504	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06509	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M06510	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06511	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M06512	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06513	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M06514	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06518	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M06519	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06520	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M06521	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06522	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M06524	216	Classroom		Faucet	<1.0	Pass	Testing Complete
M06525	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06528	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M06529	221	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M06533	218	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06534	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06538	17	Classroom		Faucet	1.1	Pass	Testing Complete
M06539	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06541	32	Classroom		Faucet	<1.0	Pass	Testing Complete
M06542	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06548	11	Classroom		Faucet	<1.0	Pass	Testing Complete
M06549	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06555	15	Classroom		Faucet	<1.0	Pass	Testing Complete
M06556	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06569	9	Classroom		Faucet	<1.0	Pass	Testing Complete
M06570	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06572		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06573		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06574		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06575		Kitchen		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion