Montgomery County Public Schools
Lead in Drinking Water Testing Report

Briggs Chaney Middle School
1901 Rainbow Drive
Silver Spring, MD 20905

Report Date: December 29, 2021

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	11/3/2021
# of Outlets Tested	30
# of Outlets ≥ 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 Briggs Chaney Middle School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
M45987	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05199	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05203	In classroom 15A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05204	In classroom 15A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04450	In classroom 16	Classroom Sink	<1	Pass	N/A	Testing Complete
M36908	In hallway across from classroom 23	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36903	In hallway across from classroom 27	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36882	In hallway across from classroom 37	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05202	In hallway across from classroom 6	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05201	In hallway adjacent to cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04447	In hallway adjacent to room 33	Drinking Fountain	<1	Pass	N/A	Testing Complete
M46016	In hallway next to computer 6	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04449	In health room	Nurses Office Sink	<1	Pass	N/A	Testing Complete
G75746	In kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW05193	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05198	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05197	In kitchen	Kitchen Sink	1.6	Pass	N/A	Testing Complete
LW05194	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M40058	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05195	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05196	In kitchen	Kitchen Sink	1.8	Pass	N/A	Testing Complete
M40070	In kitchen	Kitchen Sink	1.4	Pass	N/A	Testing Complete
LW05200	In locker room - boys	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04448	In locker room - girls	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05192	In Student Services	Teacher's Lounge Sink	1.5	Pass	N/A	Testing Complete
M40042	In team 6A	Teacher's Lounge Sink	2.3	Pass	N/A	Testing Complete
M46027	In team 6B	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW04446	In team room	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M36884	In team room B	Classroom Sink	2.4	Pass	N/A	Testing Complete
M36909	In work room 7A	Teacher's Lounge Sink	2.0	Pass	N/A	Testing Complete

KCI TECHNOLOGIES
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

Montgomery County Public Schools
Lead in Drinking Water Testing 2018

April 30, 2018

Executive Summary:
Briggs Chaney Middle School
1901 Rainbow Drive
Silver Spring, Maryland 20905

Round of Testing:	Initial
# of Outlets Tested:	29
# of Outlets ≥20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	6.9

Project Status:
Initial testing complete: All results less than 20 ppb.

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April 30, 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: Briggs Chaney Middle School
1901 Rainbow Drive
Silver Spring, Maryland 20905

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 Briggs Chaney Middle School, located at 1901 Rainbow Drive in Silver Spring, Maryland 20905.

SCOPE OF SERVICES

KCI conducted lead in water testing at Briggs Chaney 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 4/3/2018 and 4/4/2018 to collect samples from 29 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 4/4/2018 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 Briggs Chaney Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
G75746		Kitchen		Icemaker	<1.0	Pass	Testing Complete
LW04446		Team Room		Faucet	2.7	Pass	Testing Complete
LW04447	33	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04448		Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW04449		Health Room		Faucet	1.6	Pass	Testing Complete
LW04450	16	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05192	SS	Student Services		Faucet	2.8	Pass	Testing Complete
LW05193		Kitchen		Faucet	4.3	Pass	Testing Complete
LW05194		Kitchen		Faucet	4.9	Pass	Testing Complete
LW05195		Kitchen		Faucet	3.2	Pass	Testing Complete
LW05196		Kitchen		Faucet	4.0	Pass	Testing Complete
LW05197		Kitchen		Faucet	5.6	Pass	Testing Complete
LW05198		Kitchen		Faucet	2.5	Pass	Testing Complete
LW05199		Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW05200		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW05201		Hallway Cafeteria	Across From	Cooler	<1.0	Pass	Testing Complete
LW05202	6	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M36867	8A	Team Rm		Faucet	6.9	Pass	Testing Complete
M36882		Hallway	Across from CR 37	Cooler	<1.0	Pass	Testing Complete
M36884		Team Room		Faucet	4.9	Pass	Testing Complete
M36903		Hallway	Across from CR 27	Cooler	<1.0	Pass	Testing Complete
M36908		Hallway	Across from 23	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M36909	7A	Work Room		Faucet	4.7	Pass	Testing Complete
M40042	6A	Team Rm		Faucet	2.1	Pass	Testing Complete
M40058		Kitchen		Faucet	1.2	Pass	Testing Complete
M40070		Kitchen		Faucet	3.5	Pass	Testing Complete
M45987		Break Room		Faucet	3.3	Pass	Testing Complete
M46016		Hallway	Next Computer 6	Cooler	<1.0	Pass	Testing Complete
M46027	6B	Team Rm		Faucet	4.3	Pass	Testing Complete

*PPB = parts per billion