

Montgomery County Public Schools Lead in Drinking Water Testing Report

James Hubert Blake High School
300 Norwood Road
Silver Spring, MD 20905

Report Date: January 21st, 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	11/10/2021
# of Outlets Tested	64
# 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 James Hubert Blake High School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05856	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05857	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05859	In staff lounge A102M	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05860	In hallway adjacent to A101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05861	In hallway adjacent to A157	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05862	In hallway adjacent to A157	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05863	In office B109	Kitchen Sink	1.6	Pass	N/A	Testing Complete
LW05864	In hallway adjacent to D153	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05865	In hallway adjacent to C146	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05866	In hallway adjacent to C146	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05867	In hallway adjacent to H1000	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05869	In concessions H1000	Ice Machine	<1	Pass	N/A	Testing Complete
LW05870	In girls locker room H1007	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05871	In boys locker room H1011	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05872	In hallway adjacent to H1009	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05873	In hallway adjacent to H1007	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05874	In hallway adjacent to G184	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05875	In special ed G190	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05877	In hallway adjacent to E165	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05878	In hallway adjacent to 162	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05879	In daycare E160	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05881	In hallway adjacent to C130	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05882	In hallway adjacent to A216	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05883	In A202	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05884	In office D247	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW05885	In hallway adjacent to C239	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05886	In hallway adjacent to C231	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05887	In hallway adjacent to E260	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05889	In hallway adjacent to F308	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09741	In kitchen	Ice Machine	<1	Pass	N/A	Testing Complete

Lw11311	In daycare E160	Classroom Sink	<1	Pass	N/A	Testing Complete
Lw11312	In daycare E160	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11313	In daycare E160	Classroom Sink	<1	Pass	N/A	Testing Complete
Lw11314	In health room H1009	Ice Machine	<1	Pass	N/A	Testing Complete
Lw11315	In H1009	Kitchen Sink	<1	Pass	N/A	Testing Complete
Lw11316	In hallway adjacent to H1000A	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11317	In hallway adjacent to cafeteria	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11318	In hallway adjacent to cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11319	In B223	Kitchen Sink	2.6	Pass	N/A	Testing Complete
Lw11320	In hallway adjacent to C231	Bottle Filler	<1	Pass	N/A	Testing Complete
M38729	In media center office C231B	Classroom Sink	3.1	Pass	N/A	Testing Complete
M38731	In staff lounge B229	Teachers Lounge Sink	1.5	Pass	N/A	Testing Complete
M38736	In hallway adjacent to A257	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38737	In hallway adjacent to A257	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38790	In office F305	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M38791	In F300	Kitchen Sink	<1	Pass	N/A	Testing Complete
M38807	In english office A217	Kitchen Sink	<1	Pass	N/A	Testing Complete
M38841	In concessions 157	Teachers Lounge Sink	2.9	Pass	N/A	Testing Complete
M39242	In office C135	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39258	In band office D148A	Classroom Sink	<1	Pass	N/A	Testing Complete
M39270	In concessions H1000	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39363	In office B125	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39364	In fine arts department office B119	Kitchen Sink	1.3	Pass	N/A	Testing Complete
M39366	In staff lounge B120	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M39370	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39371	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39372	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39373	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39374	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39375	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39378	In kitchen	Kitchen Sink	1.8	Pass	N/A	Testing Complete
M39379	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39390	In health room	Nurses Office Sink	<1	Pass	N/A	Testing Complete

M39399	In work room A103B	Kitchen Sink	<1	Pass	N/A	Testing Complete
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Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 11, 2018

Executive Summary:

Blake High School

300 Norwood Road

Silver Spring, Maryland 20905

Round of Testing:	Initial
# of Outlets Tested:	52
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	100
Follow-Up Testing Required (Samples ≥ 20 ppb):	Kitchen B110E (100 ppb)

Round of Testing:	Follow-Up - 30 sec draw
# of Outlets Tested:	1

Project Status:

Testing Complete: Remediation Plan

Kitchen B110E - Replace fixture (M39376), in addition to supply line and valve located under sink



May 11, 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: Blake High School

300 Norwood Road
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 and follow-up lead in water testing at Blake High School, located at 300 Norwood Road in Silver Spring, Maryland 20905.

SCOPE OF SERVICES

KCI conducted lead in water testing at Blake High 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 4/5/2018 and 4/6/2018 to collect samples from 52 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. On 5/2/2018, one 30 second follow-up samples was collected.

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 was one result of the lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:

Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
M39376	Ice Maker - Kitchen B110E	4/6/2018	100	5/2/2018	ND

The initial lead in water sample results (4/6/2018) and 30 second follow up result (5/2/2018) 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.

Initial Sample Results for Blake High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05858	B110	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05859	A102M	Break Room Counselor		Faucet	<1.0	Pass	Testing Complete
LW05860	A101	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05863		Office	Directors Office	Faucet	1.0	Pass	Testing Complete
LW05864	D153	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05865	C146	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW05866	C146	Hallway		Cooler	<1.0	Pass	Testing Complete
LW05869	H1000	Concession Gymnasium	Across From	Icemaker	<1.0	Pass	Testing Complete
LW05870	H1007	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW05871	H1011	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW05872	H1011	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05873	H1007	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05874	G184	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05875	G190	Special Ed		Faucet	<1.0	Pass	Testing Complete
LW05877		Hallway	Across From E165	Cooler	<1.0	Pass	Testing Complete
LW05878		Hallway	Across From 162	Cooler	<1.0	Pass	Testing Complete
LW05879	E160	Day Care		Cooler	<1.0	Pass	Testing Complete
LW05880	E160	Day Care		Cooler	<1.0	Pass	Testing Complete
LW05881		Hallway	Outside Of C130	Cooler	<1.0	Pass	Testing Complete
LW05882		Hallway	Outside Of A216	Cooler	<1.0	Pass	Testing Complete
LW05883	A202	Special Ed Office		Faucet	<1.0	Pass	Testing Complete
LW05885		Hallway	Next To C239	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05886		Hallway	Across From C231	Cooler	<1.0	Pass	Testing Complete
LW05887		Hallway	Across From E260	Cooler	<1.0	Pass	Testing Complete
LW05888		Hallway	Across From E268	Cooler	<1.0	Pass	Testing Complete
M38729	C231B	Office Media Center		Faucet	1.4	Pass	Testing Complete
M38731	B229	Break Room		Faucet	1.1	Pass	Testing Complete
M38736		Hallway	Across Rm A257	Cooler	<1.0	Pass	Testing Complete
M38737		Hallway	Across Rm A257	Cooler	<1.0	Pass	Testing Complete
M38790	F305	Dept. Office Math		Faucet	<1.0	Pass	Testing Complete
M38791	F300	Classroom	Office	Faucet	<1.0	Pass	Testing Complete
M38806	B223	Office		Faucet	5.6	Pass	Testing Complete
M38807	A217	English Office		Faucet	1.1	Pass	Testing Complete
M38841	A159A	Concession Auditorium		Faucet	1.2	Pass	Testing Complete
M39242	C135	Office		Faucet	<1.0	Pass	Testing Complete
M39258	D148A	Band Office		Faucet	<1.0	Pass	Testing Complete
M39270	H1000	Concession Gymnasium		Faucet	<1.0	Pass	Testing Complete
M39271	H1000	Concession Gymnasium		Faucet	1.5	Pass	Testing Complete
M39363	B125	Office Science	Dept. Office	Faucet	<1.0	Pass	Testing Complete
M39364	B119	Fine Arts Dept. Office		Faucet	<1.0	Pass	Testing Complete
M39366	B120	Break Room		Faucet	<1.0	Pass	Testing Complete
M39370	B110E	Kitchen		Faucet	3.4	Pass	Testing Complete
M39371	B110E	Kitchen		Faucet	<1.0	Pass	Testing Complete
M39372	B110E	Kitchen		Faucet	1.5	Pass	Testing Complete
M39373	B110E	Kitchen		Faucet	2.0	Pass	Testing Complete
M39374	B110E	Kitchen		Faucet	<1.0	Pass	Testing Complete
M39375	B110E	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M39376	B110E	Kitchen		Ice Maker	100	Fail	Follow Up Testing Needed
M39378	B110E	Kitchen		Faucet	<1.0	Pass	Testing Complete
M39379	B110E	Kitchen		Faucet	<1.0	Pass	Testing Complete
M39390		Health Room		Faucet	<1.0	Pass	Testing Complete
M39399	A1000	Work Room Admin		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion

Contractor: KCI Technologies, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Result for Blake High School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
M39376	B110E	Kitchen	Ice Maker	N/A	57.5	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

*PPB = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.