

Montgomery County Public Schools Lead in Drinking Water Testing Report

Silver Spring International Middle School
313 Wayne Ave
Silver Spring, MD 20910

Report Date: March 6th, 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	46
# of Outlets \geq 5 ppb	2

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 Silver Spring International School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW04646	In health room by health	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW04647	In health room by health	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04648	In break room 110 by break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW04649	In health room 110 by health	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete
LW04650	In home economics 139 by home economics	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04651	In home economics 139 by home economics	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04652	In home economics 139 by home economics	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04653	In home economics 139 by home economics	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04654	In home economics 139 by home economics	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04655	In team room 136 by team room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW04657	In hallway outside of 133	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04660	In classroom 130	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04664	In hallway across from room 123	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04665	In hallway across from room 123	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04666	In hallway across from Stairway 3	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04668	In office 117	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
LW04669	In classroom 119A	Classroom Sink	6.6	Fail	NC	Remediation Action Plan
LW04670	In work room 114B by media center	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04671	In hallway across from room 139	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04672	In hallway outside of room 308	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04673	In team room 307	Teachers Lounge Sink	2.8	Pass	N/A	Testing Complete
LW04674	In team room 307	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04675	In hallway across from room 304	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04676	In classroom 244	Classroom Combination Sink	2.4	Pass	N/A	Testing Complete
LW04677	In hallway outside of room 242	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04678	In hallway across from room 233	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04679	In hallway across from room 233	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04680	In team room 225	Teachers Lounge Sink	6.7	Fail	NC	Remediation Action Plan

LW04682	In hallway across from room 216	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08430	In boy's locker room in Fieldhouse	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08431	In boy's locker room in Fieldhouse	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08432	In girl's locker room in Fieldhouse	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08433	In girl's locker room in Fieldhouse	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08434	In Fieldhouse 1st flood in gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08435	In Fieldhouse 2nd floor by stairs	Drinking Fountain	4.5	Pass	N/A	Testing Complete
LW08436	In lobby next to admin	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38271	In Lob by next admin	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38272	In work room 105A	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M38288	In office 117	Classroom Combination Sink	2.7	Pass	N/A	Testing Complete
M38290	In classroom 120	Classroom Sink	2.0	Pass	N/A	Testing Complete
M38333	In hallway across from room 139	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38456	In hallway outside of room 308	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38457	In work room 308	Teachers Lounge Sink	1.7	Pass	N/A	Testing Complete
M38458	In work room 308	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M38494	In break room 227	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M38499	In team room 224	Classroom Combination Drinking Fountain	<1	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 Post-Remediation Follow-Up Testing 2019

August 30, 2019

Executive Summary:

Silver Spring International Middle School

313 Wayne Avenue

Silver Spring, Maryland 20910

Round of Testing:	Post-Remediation Follow-up
Sample Date	2/1/19
# of Outlets Tested:	2
# of Outlets ≥ 5 ppb:	0
Low Value (ppb):	1.3
High Value (ppb):	1.7

Project Status

Testing Complete: Post-remediation follow-up testing completed for following rooms:

Classroom 130 - Outlet (LW04660) will be placed back into service

Work Room - Outlet (M38457) will be placed back into service



August 30, 2019

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Dr., Bldg A, 1st Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Post-Remediation Follow-up Testing Service

Location: Silver Spring International Middle School

313 Wayne Avenue
Silver Spring, Maryland 20910

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation follow-up lead in water testing at Silver Spring International Middle School, located at 313 Wayne Avenue in Silver Spring, Maryland 20910.

SCOPE OF SERVICES

Two drinking water outlets were remediated at Silver Spring International Middle School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). KCI Technologies, Inc. conducted lead in water post-remediation follow-up testing in accordance with the Maryland Code of Regulations (COMAR) 26.16.07 - Lead in Drinking Water - Public and Nonpublic Schools.

KCI Technologies, Inc. visited the site on 2/1/19 to collect post-remediation follow-up samples from 2 drinking water outlets that had been replaced. 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

The initial, flush, and post-remediation follow-up results are highlighted in the summary table below:

Barcode ID	Room Number	Location	Notes	Equipment Type	Initial (ppb)	Flush (ppb)	Post-Remediation Follow-up (ppb)	Post-Remediation Follow-up Pass/Fail	Status
LW04660	130	Classroom		Faucet	29	<1.0	1.3	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
M38457		Work Room		Faucet	31	1.8	1.7	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service

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. The Environmental Protection Agency (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.

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
KCI Job #1214634186



Montgomery County Public Schools Lead in Drinking Water Testing 2018

April 27, 2018

Executive Summary:

Silver Spring International Middle School

313 Wayne Avenue

Silver Spring, Maryland 20910

Round of Testing:	Initial
# of Outlets Tested:	42
# of Outlets ≥ 20 ppb:	2
Low Value (ppb):	<1.0
High Value (ppb):	31.0
Follow-Up Testing Required (Samples ≥ 20 ppb):	Classroom 130 (29.0 ppb) Workroom (31.0 ppb)

Round of Testing:	Follow-Up - 30 sec draw
# of Outlets Tested:	2

Project Status:

Testing Complete: Remediation Plan

Classroom 130 - Replace fixture (LW04660), in addition to supply line and valve located under sink

Workroom - Replace fixture (M38457), in addition to supply line and valve located under sink



April 27, 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: Silver Spring International Middle School

313 Wayne Avenue
Silver Spring, Maryland 20910

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 Silver Spring International Middle School, located at 313 Wayne Avenue in Silver Spring, Maryland 20910.

SCOPE OF SERVICES

KCI conducted lead in water testing at Silver Spring International 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 2/15/2018 and 2/16/2018 to collect samples from 42 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 4/11/2018, two 30 second follow-up samples were 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 were two results 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)
LW04660	Faucet - Classroom 130	2/16/2018	29.0	4/11/2018	ND
M38457	Faucet - Workroom	2/16/2018	31.0	4/11/2018	1.8

The initial lead in water sample results (2/16/2018) and 30 second follow up results (4/11/2018) 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 Silver Spring International Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04646		Health Room		Faucet	<1.0	Pass	Testing Complete
LW04647		Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04648	110	Break Room		Faucet	<1.0	Pass	Testing Complete
LW04649	110	Health Room		Bubbler - Indoor	4.9	Pass	Testing Complete
LW04650	139	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04651	139	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04652	139	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04653	139	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04654	139	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04655	136	Team Room		Faucet	<1.0	Pass	Testing Complete
LW04657		Hallway Hallway	Outside Of Rm 133	Cooler	<1.0	Pass	Testing Complete
LW04658	131	Classroom		Faucet	7.3	Pass	Testing Complete
LW04660	130	Classroom		Faucet	29.0	Fail	Follow-up Testing Needed
LW04662	127	Math		Faucet	14.3	Pass	Testing Complete
LW04664		Hallway	Across From Room 123	Cooler	<1.0	Pass	Testing Complete
LW04665		Hallway	Across From Room 123	Cooler	<1.0	Pass	Testing Complete
LW04666		Hallway	Across From Stairway 3	Cooler	<1.0	Pass	Testing Complete
LW04668	117	Office		Bubbler - Indoor	2.2	Pass	Testing Complete
LW04669	119A	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04670	114B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW04671		Hallway	Across From Room 139	Cooler	<1.0	Pass	Testing Complete
LW04672		Hallway	Outside Of Room 308	Cooler	<1.0	Pass	Testing Complete
LW04673	307	Team Room		Faucet	1.8	Pass	Testing Complete
LW04674	307	Team Room		Bubbler - Indoor	1.5	Pass	Testing Complete
LW04675		Hallway	Across From Room 304	Cooler	<1.0	Pass	Testing Complete
LW04677		Hallway	Outside Of Room 242	Cooler	<1.0	Pass	Testing Complete
LW04678		Hallway	Across From Room 233	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04679		Hallway	Across From Room 233	Cooler	<1.0	Pass	Testing Complete
LW04680	225	Team Room		Faucet	4.6	Pass	Testing Complete
LW04681		Hallway	Across From Room 216	Cooler	<1.0	Pass	Testing Complete
LW04682		Hallway	Across From Room 216	Cooler	<1.0	Pass	Testing Complete
M38270		Lobby	Next Admin	Cooler	<1.0	Pass	Testing Complete
M38271		Lobby	Next Admin	Cooler	<1.0	Pass	Testing Complete
M38272	105A	Work Room		Faucet	1.6	Pass	Testing Complete
M38288	117	Office		Faucet	<1.0	Pass	Testing Complete
M38290	120	Classroom		Faucet	<1.0	Pass	Testing Complete
M38333		Hallway	Across From Room 139	Cooler	<1.0	Pass	Testing Complete
M38457	308	Work Room		Faucet	31.0	Fail	Follow-up Testing Needed
M38458	308	Work Room		Bubbler - Indoor	1.5	Pass	Testing Complete
M38494	227	Break Room		Faucet	<1.0	Pass	Testing Complete
M38498	224	Team Room		Faucet	12.7	Pass	Testing Complete
M38499	224	Team Room		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = Parts per billion

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Silver Spring International Middle School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW04660	130	Classroom	Faucet	ND	70.1	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink
M38457	308	Work Room	Faucet	65.4	224	1.8	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.