Montgomery County Public Schools
Lead in Drinking Water Testing Report

Northwest High School
13501 Richter Farm Road
Germantown, MD 20874

Report Date: February 23rd, 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	11/11/2021
# of Outlets Tested	62
# of Outlets ≥ 5 ppb	4

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 Northwest HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
M41561	In boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41562	In boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41653	In break room 112	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M41654	In break room 112	Teachers Lounge Sink	2.4	Pass	N/A	Testing Complete
M41637	In break room 125A	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW10879	In break room 216	Teachers Lounge Sink	1.3	Pass	N/A	Testing Complete
M41694	In break room 233	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW10871	In break room 315	Teachers Lounge Sink	1.1	Pass	N/A	Testing Complete
M41614	In classroom 105	Classroom Sink	9.9	Fail	<1	Testing Complete
LW04499	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41628	In hallway adjacent to 100	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41662	In hallway adjacent to 110	Drinking Fountain	3.1	Pass	N/A	Testing Complete
M41663	In hallway adjacent to 110	Bottle Filler	2.5	Pass	N/A	Testing Complete
LW04500	In hallway adjacent to 115	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04496	In hallway adjacent to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45527	In hallway adjacent to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04495	In hallway adjacent to 124	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06401	In hallway adjacent to 176	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06402	In hallway adjacent to 176	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04501	In hallway adjacent to 180A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04502	In hallway adjacent to 180A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04490	In hallway adjacent to 218A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10869	In hallway adjacent to 221A	Bottle Filler	<1	Pass	N/A	Testing Complete
M41700	In hallway adjacent to 221B	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41725	In hallway adjacent to 226B	Drinking Fountain	1.5	Pass	N/A	Testing Complete
M41740	In hallway adjacent to 238	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04491	In hallway adjacent to 282A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04492	In hallway adjacent to 282A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06487	In hallway adjacent to 311	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10872	In hallway adjacent to 335	Bottle Filler	<1	Pass	N/A	Testing Complete

M41519	In hallway adjacent to 335	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06488	In hallway adjacent to 379	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06489	In hallway adjacent to 379	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10870	In hallway adjacent to auditorium	Bottle Filler	<1	Pass	N/A	Testing Complete
M41713	In hallway adjacent to auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41714	In hallway adjacent to auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41715	In hallway adjacent to auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41716	In hallway adjacent to auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
M41737	In hallway adjacent to main office 240B	Drinking Fountain	1.2	Pass	N/A	Testing Complete
M41738	In hallway adjacent to main office 240B	Drinking Fountain	6.5	Fail	<1	Testing Complete
LW04494	In hallway adjacent to media center office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10868	In hallway adjacent to media center office	Bottle Filler	<1	Pass	N/A	Testing Complete
M41710	In hallway adjacent to media center office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06404	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW06405	In kitchen	Kitchen Sink	2.4	Pass	N/A	Testing Complete
LW06406	In kitchen	Kitchen Sink	1.4	Pass	N/A	Testing Complete
LW06407	In kitchen	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW10877	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10878	In kitchen	Kitchen Sink	20.1	Fail	<1	Testing Complete
M14915	In kitchen	Kitchen Sink	6.0	Fail	<1	Testing Complete
M41646	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M41647	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M41648	In kitchen	Kitchen Sink	1.5	Pass	N/A	Testing Complete
LW04493	In office 200	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M41730	In office 228	Teachers Lounge Sink	1.1	Pass	N/A	Testing Complete
LW06486	In office 240	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW06491	In office 261	Classroom Sink	<1	Pass	N/A	Testing Complete
M41513	In office 333	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M41517	In office 335	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M41616	In room 105	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10876	In storage room 127D	Classroom Sink	3.0	Pass	N/A	Testing Complete
LW06403	In work room 203B	Teachers Lounge Sink	<1	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

June 5, 2018

Executive Summary:
Northwest High School
13501 Richter Farm Road
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets ≥20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.5

Project Status:
Testing Complete: **All results less than 20 ppb.**

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June 5, 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: Northwest High School
13501 Richter Farm Road
Germantown, Maryland 20874

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 Northwest High School, located at 13501 Richter Farm Road in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Northwest 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 4/24/2018 and 4/25/2018 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 4/25/2018 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

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Lead in Water Test Summary Table

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

Sample Results for Northwest High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04490		Hallway	Across From 218a	Cooler	<1.0	Pass	Testing Complete
LW04491		Hallway	Right Of 282a	Cooler	<1.0	Pass	Testing Complete
LW04492		Hallway	Right Of 282a	Cooler	<1.0	Pass	Testing Complete
LW04493	200	Office		Faucet	<1.0	Pass	Testing Complete
LW04494		Hallway	Outside Of Imc	Cooler	<1.0	Pass	Testing Complete
LW04495		Hallway	Outside Of 124	Cooler	<1.0	Pass	Testing Complete
LW04496		Hallway	Across From 116	Cooler	<1.0	Pass	Testing Complete
LW04497		Hallway	Left Of 119	Cooler	<1.0	Pass	Testing Complete
LW04498		Hallway	Left Of 119	Cooler	<1.0	Pass	Testing Complete
LW04499		Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW04500		Hallway	Across From 115	Cooler	<1.0	Pass	Testing Complete
LW04501		Hallway	Right Of 180a	Cooler	<1.0	Pass	Testing Complete
LW04502		Hallway	Right Of 180a	Cooler	<1.0	Pass	Testing Complete
LW06401		Hallway	Left Of 176	Cooler	<1.0	Pass	Testing Complete
LW06402		Hallway	Left Of 176	Cooler	<1.0	Pass	Testing Complete
LW06403		Lobby		Cooler	<1.0	Pass	Testing Complete
LW06404		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW06405		Kitchen		Faucet	1.1	Pass	Testing Complete
LW06406		Kitchen		Faucet	2.5	Pass	Testing Complete
LW06407		Kitchen		Faucet	1.1	Pass	Testing Complete
LW06486		Administration	In Break Room	Faucet	<1.0	Pass	Testing Complete
LW06487		Hallway	Across From 311	Cooler	<1.0	Pass	Testing Complete
LW06488		Hallway	Across From 379	Cooler	<1.0	Pass	Testing Complete
LW06489		Hallway	Across From 379	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06491	261	Office		Faucet	<1.0	Pass	Testing Complete
M41465		Hallway	Across from CR 310	Cooler	<1.0	Pass	Testing Complete
M41513	333	Office		Faucet	<1.0	Pass	Testing Complete
M41517	335	Office		Faucet	<1.0	Pass	Testing Complete
M41519		Hallway	Next to CR 335	Cooler	<1.0	Pass	Testing Complete
M41561		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M41562		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M41616	105	Preschool	CCE	Cooler	<1.0	Pass	Testing Complete
M41628		Hallway	Across from CR 100	Cooler	<1.0	Pass	Testing Complete
M41638		Hallway	Next to 127A	Cooler	<1.0	Pass	Testing Complete
M41639		Hallway	Next to 127A	Cooler	<1.0	Pass	Testing Complete
M41648		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
M41662		Hallway	Across from Athletic Director	Cooler	<1.0	Pass	Testing Complete
M41663		Hallway	Across from Athletic Director	Cooler	<1.0	Pass	Testing Complete
M41700		Hallway	Next to 221B	Cooler	<1.0	Pass	Testing Complete
M41710		Hallway	Next to IMC	Cooler	<1.0	Pass	Testing Complete
M41713		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41714		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41716		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41725		Hallway	Next to 226B	Cooler	<1.0	Pass	Testing Complete
M41730	228	Social Studies Office		Faucet	<1.0	Pass	Testing Complete
M41740		Hallway	Outside Of 238	Cooler	<1.0	Pass	Testing Complete
M45527		Hallway	Across CR 116	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion