

Montgomery County Public Schools Lead in Drinking Water Testing Report

North Bethesda Middle School
8935 Bradmoor Drive
Bethesda, MD 20817

Report Date: April 1st, 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	2/26/2020
# of Outlets Tested	58
# 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 North Bethesda MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03476	In work room 100D by administration	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03477	In classroom 104	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03478	In locker room - boys 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03479	In locker room - girls 130	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03480	In hallway 115 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03481	In hallway 109 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03482	In support room B101	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW03483	In hallway C101 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03484	In hallway C109 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03485	In hallway A106 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03486	In hallway A106 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03487	In hallway B200 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03488	In hallway C203 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03757	In hallway D125 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03758	In hallway D125 across from	Drinking Fountain	2.2	Pass	N/A	Testing Complete
LW03759	In work room D115	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW03761	In hallway D223 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03996	In hallway D223 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04737	In hallway 214 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04739	In home economics 225	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW04740	In home economics 225	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW04741	In home economics 225	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW04742	In home economics 225	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW04743	In home economics 225	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW04744	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04745	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04746	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04747	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04748	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete

LW04749	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04750	In break room 208A	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW04751	In hallway A204 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04752	In hallway outside of A204	Drinking Fountain	<1	Pass	N/A	Testing Complete
M27250	In hallway 109 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35437	In hallway 115 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35521	In hallway 128A outside	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35522	In hallway 128A across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35534	In locker room - boys 129 by locker room - girls ie. between	Classroom Sink	<1	Pass	N/A	Testing Complete
M35556	In health room 119 by health	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M35696	In work room 200B by media center	Classroom Sink	<1	Pass	N/A	Testing Complete
M35711	In support room C204	Classroom Sink	<1	Pass	N/A	Testing Complete
M35713	In support room C206	Classroom Sink	<1	Pass	N/A	Testing Complete
M35717	In hallway outside music hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35718	In hallway outside music hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35731	In kitchen 210 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M35735	In kitchen 210 by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
M35736	In cafeteria 209 by cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35737	In cafeteria 209 by cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35739	In hallway 208 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35740	In hallway 208 outside of	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36302	In support room 114	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M38193	In support room B102	Classroom Sink	<1	Pass	N/A	Testing Complete
M38205	In support room A106	Classroom Sink	<1	Pass	N/A	Testing Complete
M38219	In classroom 104	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08400	In hallway by D232	Drinking Fountain	4.1	Pass	N/A	Testing Complete
LW08401	In hallway across Classroom 221	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08402	Hallway across Classroom 221	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08336	In classroom 332	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2019

April 4, 2019

Executive Summary:

North Bethesda Middle School - Addition

8935 Bradmoor Dr.

Bethesda, Maryland 20817

Round of Testing:	Initial
# of Outlets Tested:	5
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	<1.0

Project Status:

Testing Complete: All results less than 20 ppb.



April 4, 2019

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

Re: Drinking Water Testing

KCI Job #1214634189

Location: North Bethesda Middle School - Addition

8935 Bradmoor Dr.
Bethesda, Maryland 20817

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 North Bethesda Middle School - Addition, located at 8935 Bradmoor Dr. in Bethesda, Maryland 20817.

SCOPE OF SERVICES

KCI conducted lead in water testing at North Bethesda Middle School - Addition 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 3/25/2019 and 3/26/2019 to collect samples from 5 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 3/26/2019 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

Attachments:

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 North Bethesda MS - Addition

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03757	D125	CORR		Cooler - Bottle Filling Station	<1.0	Pass	Testing Complete
LW03758	D125	CORR		Cooler	<1.0	Pass	Testing Complete
LW03759	D115	WKRM		Faucet - Teachers Lounge Sink	<1.0	Pass	Testing Complete
LW03761	D223	CORR		Cooler - Bottle Filling Station	<1.0	Pass	Testing Complete
LW03996	D223	CORR		Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

North Bethesda Middle School

8935 Bradmoor Drive

Bethesda, Maryland 20814

Date of Test Report:	3/22/2018
Round of Testing:	Initial
# of Outlets Tested:	50
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	9.3

Project Status:

Initial testing complete: All results less than 20 ppb.



3/22/2018

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: North Bethesda Middle School

8935 Bradmoor Drive
Bethesda, Maryland 20814

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 North Bethesda Middle School, located at 8935 Bradmoor Drive in Bethesda, Maryland 20814.

SCOPE OF SERVICES

KCI conducted lead in water testing at North Bethesda 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 2/28/2018 and 3/1/2018 to collect samples from 50 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 3/1/2018 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.

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Kamau McAbee
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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 North Bethesda Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03476	100D	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW03477	104	Classroom		Faucet	1.7	Pass	Testing Complete
LW03478	128	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW03479	130	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW03480	115	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03481	109	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03482	B101	Support Room		Faucet	<1.0	Pass	Testing Complete
LW03483	C101	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03484	C109	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03485	A106	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03486	A106	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03487	B200	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW03488	C203	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04737	214	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04738	225	Home Economics		Faucet	9.3	Pass	Testing Complete
LW04739	225	Home Economics		Faucet	1.3	Pass	Testing Complete
LW04740	225	Home Economics		Faucet	1.7	Pass	Testing Complete
LW04741	225	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW04742	225	Home Economics		Faucet	1.1	Pass	Testing Complete
LW04743	225	Home Economics		Faucet	2.7	Pass	Testing Complete
LW04744	210	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW04745	210	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW04746	210	Kitchen Cafeteria		Faucet	1.4	Pass	Testing Complete
LW04747	210	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW04748	210	Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04749	210	Kitchen Cafeteria		Faucet	1	Pass	Testing Complete
LW04750	208A	Break Room		Faucet	<1.0	Pass	Testing Complete
LW04751	A204	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04752	A204	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M27250	109	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M35437	115	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M35521	128A	Hallway	Outside	Cooler	<1.0	Pass	Testing Complete
M35522	128A	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M35534	129	Locker Room - Boys Locker Room - Girls	Between	Faucet	<1.0	Pass	Testing Complete
M35556	119	Health Room Health		Faucet	<1.0	Pass	Testing Complete
M35696	200B	Work Room Media Center		Faucet	1	Pass	Testing Complete
M35711	C204	Support Room		Faucet	1.6	Pass	Testing Complete
M35713	C206	Support Room		Faucet	<1.0	Pass	Testing Complete
M35717		Hallway	Outside Music Hall	Cooler	<1.0	Pass	Testing Complete
M35718		Hallway	Outside Music Hall	Cooler	<1.0	Pass	Testing Complete
M35731	210	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M35735	210	Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete
M35736	209	Cafeteria		Cooler	<1.0	Pass	Testing Complete
M35737	209	Cafeteria		Cooler	<1.0	Pass	Testing Complete
M35739	208	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M35740	208	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M36302	114	Support Room		Faucet	1	Pass	Testing Complete
M38193	B102	Support Room		Faucet	1.1	Pass	Testing Complete
M38205	A106	Support Room		Faucet	<1.0	Pass	Testing Complete
M38219	104	Classroom		Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion