

Montgomery County Public Schools Lead in Drinking Water Testing Report

North Chevy Chase Elementary School
3700 Jones Bridge Rd.
Chevy Chase, MD 20815

Report Date: May 6th, 2024

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 State Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by Inspection Experts Inc. is presented in the table below.

Sampling Date	4/18/2024
# of Outlets Tested	39
# of Outlets \geq 5 ppb	1

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be shut-down within 24 hours, 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 outlets, 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 Chevy Chase ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW13125	In hallway adjacent to Gym	Bottle Refill Dispenser/Water Refill Station	<2.0	Pass	Testing Complete
LW10704	In hallway adjacent to all purpose room	Bottle Refill Dispenser/Water Refill Station	<2.0	Pass	Testing Complete
M42930	In classroom 14	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42932	In classroom 12	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42976	In classroom 27	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33313	In Testing room 107	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33314	In classroom 105	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33315	In classroom 103	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42846	In classroom 25	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42848	In classroom 23	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42850	In classroom 26	Drinking Water fountain - Bubblers Style	2.3	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M42852	In classroom 21	Drinking Water fountain - Bubblers Style	2.1	Pass	Testing Complete
M42901	Kitchen	Faucet, Cold	<2.0	Pass	Testing Complete
M42902	In kitchen	Faucet, Cold	30.9	Fail	Remediation Action Plan
M42903	Kitchen	Faucet, Cold	<2.0	Pass	Testing Complete
M42918	In classroom 18	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M42925	In classroom 17	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33309	In hallway adjacent to electrical room	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M42927	In classroom 16	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
LW06303	In health room by administration	Faucet, Cold	<2.0	Pass	Testing Complete
LW06305	Adjacent to classroom 18	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06306	Adjacent to classroom 18	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06307	In hallway adjacent to main office	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW06308	In hallway adjacent to main office	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06310	In hallway adjacent from gymnasium	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06311	In hallway adjacent from gymnasium	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06323	In classroom 31	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
LW06324	In hallway adjacent to all purpose room	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW06325	In hallway adjacent to all purpose room	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M33292	In classroom 104	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33293	In classroom 203	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33294	In classroom 200	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33295	In classroom 202	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33297	In classroom 205	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete
M33298	In classroom 207	Drinking Water fountain - Bubblers Style	<2.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M33299	In classroom 208	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M33304	In hallway outside 213	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M33305	In hallway outside 213	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M33308	In hallway adjacent to classroom 215	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

North Chevy Chase Elementary School
3700 Jones Bridge Road
Chevy Chase, MD 20815

Report Date: February 16th, 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	10/20/2021
# of Outlets Tested	67
# of Outlets \geq 5 ppb	10

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 Chevy Chase ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW06305	Adjacent to classroom 18	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06306	Adjacent to classroom 18	Drinking Fountain	<1	Pass	N/A	Testing Complete
M42868	Classroom 33	Classroom Sink	1.8	Pass	N/A	Testing Complete
LW06309	In break room	Classroom Sink	<1	Pass	N/A	Testing Complete
M33315	In classroom 103	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06315	In classroom 103	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M33292	In classroom 104	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06312	In classroom 104	Classroom Combination Sink	49.5	Fail	8.4	Testing Complete
LW06314	In classroom 105	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M33314	In classroom 105	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06313	In classroom 110A	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M42931	In classroom 12	Classroom Combination Sink	4.7	Pass	N/A	Testing Complete
M42932	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42928	In classroom 13	Classroom Sink	9.0	Fail	3.7	Testing Complete
M42929	In classroom 14	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
M42930	In classroom 14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42926	In classroom 16	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
M42927	In classroom 16	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42925	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42924	In classroom 17	Classroom Combination Sink	17.9	Fail	2.9	Testing Complete
M42917	In classroom 18	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
M42918	In classroom 18	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06319	In classroom 200	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
M33294	In classroom 200	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06320	In classroom 202	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M33295	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06318	In classroom 203	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M33293	In classroom 203	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06317	In classroom 205	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M33297	In classroom 205	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M33298	In classroom 207	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06316	In classroom 207	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
M33299	In classroom 208	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06321	In classroom 208	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M42851	In classroom 21	Classroom Combination Sink	153	Fail	8.4	Testing Complete
M42852	In classroom 21	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
M42847	In classroom 23	Classroom Combination Sink	7.2	Fail	<1	Testing Complete
M42848	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42845	In classroom 25	Classroom Combination Sink	8.5	Pass	4.9	Testing Complete
M42846	In classroom 25	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
M42850	In classroom 26	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
M42849	In classroom 26	Classroom Combination Sink	76.9	Fail	5.1	Testing Complete
M42975	In classroom 27	Classroom Combination Sink	5.0	Fail	<1	Testing Complete
M42976	In classroom 27	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06323	In classroom 31	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
M42870	In classroom 34	Classroom Sink	1.1	Pass	N/A	Testing Complete
M42869	In classroom 34	Classroom Sink	12.7	Fail	1.5	Testing Complete
LW06311	In hallway adjacent from gymnasium	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06310	In hallway adjacent from gymnasium	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06324	In hallway adjacent to all purpose room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06325	In hallway adjacent to all purpose room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10704	In hallway adjacent to all purpose room	Bottle Filler	<1	Pass	N/A	Testing Complete
M33308	In hallway adjacent to classroom 215	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33309	In hallway adjacent to electrical room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06307	In hallway adjacent to main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06308	In hallway adjacent to main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33304	In hallway outside 213	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33305	In hallway outside 213	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06303	In health room by administration	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06334	In Testing room 107	Classroom Combination Sink	4.8	Pass	N/A	Testing Complete
M33313	In Testing room 107	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M42909	In work room adjacent from classroom 10	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06304	In work room by media center	Classroom Sink	4.7	Pass	N/A	Testing Complete

M42901	Kitchen	Classroom Sink	<1	Pass	N/A	Testing Complete
M42902	Kitchen	Classroom Sink	10.6	Fail	21.5	Testing Complete
M42903	Kitchen	Classroom Sink	3.7	Pass	N/A	Testing Complete
M42904	Kitchen	Classroom Sink	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Post Remediation Follow Up Testing 2019

August 30, 2019

Executive Summary:

North Chevy Chase Elementary School
3700 Jones Bridge Road
Chevy Chase, Maryland 20815

Round of Testing:	Post-Remediation Follow-up
Sample Date	2/1/19
# of Outlets Tested:	1
# of Outlets ≥ 5 ppb:	0
Low Value (ppb):	2.3
High Value (ppb):	2.3

Project Status

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

Kitchen - Outlet (M42902) 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: North Chevy Chase Elementary School

3700 Jones Bridge Road
Chevy Chase, Maryland 20815

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 North Chevy Chase Elementary School, located at 3700 Jones Bridge Road in Chevy Chase, Maryland 20815.

SCOPE OF SERVICES

One drinking water outlet was remediated at North Chevy Chase Elementary 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 a post-remediation follow-up sample from 1 drinking water outlet that had been replaced. The sample was 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
M42902		Kitchen		Faucet	22	2.4	2.3	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

June 21, 2018

Executive Summary:

North Chevy Chase Elementary School

3700 Jones Bridge Road

Chevy Chase, Maryland 20815

Round of Testing:	Initial
# of Outlets Tested:	65
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	22.0
Follow-Up Testing Required (Samples ≥ 20 ppb):	Kitchen (22.0 ppb)

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

Project Status:

Testing Complete: Remediation Plan

Kitchen - Replace fixture (M42902), in addition to supply line and valve located under sink



June 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 #1214634193

Location: North Chevy Chase Elementary School

3700 Jones Bridge Road
Chevy Chase, Maryland 20815

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 North Chevy Chase Elementary School, located at 3700 Jones Bridge Road in Chevy Chase, Maryland 20815.

SCOPE OF SERVICES

KCI conducted lead in water testing at North Chevy Chase Elementary 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 5/3/2018 and 5/4/2018 to collect samples from 65 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 6/5/ 2018, one 30 second follow-up sample 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)
M42902	Faucet - Kitchen	5/4/2018	22.0	6/5/2018	2.4

The initial lead in water sample results (5/4/2018) and 30 second follow up result (6/5/2018) 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 North Chevy Chase Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06303		Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW06304		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW06305	18	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06306	18	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06307		Hallway Administration	Across From	Cooler	<1.0	Pass	Testing Complete
LW06308		Hallway Administration	Across From	Cooler	<1.0	Pass	Testing Complete
LW06309		Break Room		Faucet	<1.0	Pass	Testing Complete
LW06310		Hallway Gymnasium	Across From	Cooler	<1.0	Pass	Testing Complete
LW06311		Hallway Gymnasium	Across From	Cooler	<1.0	Pass	Testing Complete
LW06312	104	Classroom		Faucet	3.2	Pass	Testing Complete
LW06313	110A	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06314	105	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06315	103	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06316	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06317	205	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06318	203	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06319	200	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06320	202	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06321	208	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06322	31	Classroom		Faucet	7.9	Pass	Testing Complete
LW06323	31	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06324		Hallway All Purpose Room	Across From	Cooler	<1.0	Pass	Testing Complete
LW06325		Hallway All Purpose Room	Across From	Cooler	<1.0	Pass	Testing Complete
LW06334	107	Testing Room		Faucet	1.2	Pass	Testing Complete
M33292	104	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M33293	203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M33294	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33295	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33297	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33298	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33299	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33304	213	Hallway	Outside	Cooler	<1.0	Pass	Testing Complete
M33305	213	Hallway	Outside	Cooler	<1.0	Pass	Testing Complete
M33308	115	Hallway	Across From Elevator	Cooler	<1.0	Pass	Testing Complete
M33309	115	Hallway	Across From Elevator	Cooler	<1.0	Pass	Testing Complete
M33313	107	Testing Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33314	105	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33315	103	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33316	110A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42845	25	Classroom		Faucet	4.9	Pass	Testing Complete
M42846	25	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
M42847	23	Classroom		Faucet	1.9	Pass	Testing Complete
M42848	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42849	26	Classroom		Faucet	12.0	Pass	Testing Complete
M42850	26	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M42851	21	Classroom		Faucet	4.9	Pass	Testing Complete
M42852	21	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
M42901		Kitchen		Faucet	1.7	Pass	Testing Complete
M42902		Kitchen		Faucet	22.0	Fail	Follow-Up Testing Needed
M42903		Kitchen		Faucet	1.5	Pass	Testing Complete
M42904		Kitchen		Faucet	1.2	Pass	Testing Complete
M42909		Work Room Admin		Faucet	1.4	Pass	Testing Complete
M42917	18	Classroom		Faucet	1.2	Pass	Testing Complete
M42918	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42924	17	Classroom		Faucet	1.3	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M42925	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42926	16	Classroom		Faucet	2.1	Pass	Testing Complete
M42927	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42928	13	Classroom		Faucet	2.7	Pass	Testing Complete
M42929	14	Classroom		Faucet	2.9	Pass	Testing Complete
M42930	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42931	12	Classroom		Faucet	2.4	Pass	Testing Complete
M42932	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M42975	27	Classroom		Faucet	1.6	Pass	Testing Complete
M42976	27	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion

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

Follow Up Sample Result for North Chevy Chase Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
M42902		Kitchen	Faucet	N/A	13.2	2.4	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.