Montgomery County Public Schools Lead in Drinking Water Testing Report

Roscoe R. Nix Elementary School 1100 Corliss St. Silver Spring, MD 20903

Report Date: May 22nd, 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	2/22/2024
# of Outlets Tested	30
# of Outlets ≥ 5 ppb	3

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:

- 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

Lead in Water Sample Results Table

Sampling Results for Roscoe R. Nix ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW05779	In resource center 237D	Faucet, Cold	<1.0	Pass	Testing Complete
LW05781	In classroom 159	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW05783	In classroom 156	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW05786	In classroom 148	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW05787	In Classroom 140	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW05789	In break room 100G	Faucet, Cold	<1.0	Pass	Testing Complete
LW11415	In health room 102D	Faucet, Cold	10.8	Fail	Remediation Action Plan
LW13112	In Hallway adjacent to 140	Bottle Filler/Drinking Fountain Combo Unit- Fountain-Bubbler style	<1.0	Pass	Testing Complete
LW13113	In Classroom 140	Drinking Water fountain - Bubbler Style	1.9	Pass	Testing Complete
LW13114	In Hallway adjacent to 118	Bottle Filler/Drinking Fountain Combo Unit- Fountain-Bubbler style	<1.0	Pass	Testing Complete
M28683	In hallway adjacent to 174	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M28684	In hallway adjacent to 174	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28698	In classroom 165	Drinking Water fountain - Bubbler Style	1.6	Pass	Testing Complete
M28704	In classroom 160	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M28710	In classroom 155	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M28713	In classroom 152	Drinking Water fountain - Bubbler Style	<1.0 Pass		Testing Complete
M28728	In hallway adjacent to 140	Drinking Water Fountain - Cooler/Chiller Style	<1.0 Pass		Testing Complete
M28729	In hallway adjacent to 140	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28738	In hallway adjacent to 118	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28739	In hallway adjacent to 118	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28751	In kitchen	Faucet, Cold	19.1 Fail		Remediation Action Plan
M28752	In kitchen	Faucet, Cold	<1.0 Pass		Testing Complete
M28753	In kitchen	Faucet, Cold	4.3	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M28754	In kitchen	Faucet, Cold	4.6	Pass	Testing Complete
M28757	In work room 104	Faucet, Cold	4.8	Pass	Testing Complete
M28783	In hallway adjacent to 220	Drinking Water Fountain - <1.0 Cooler/Chiller Style		Pass	Testing Complete
M28784	In hallway adjacent to 220	Drinking Water Fountain - <1.0 Cooler/Chiller Style		Pass	Testing Complete
M28785	In hallway adjacent to 224	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28786	In hallway adjacent to 224	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M28793	In staff development 203D	Faucet, Cold	5.1	Fail	Remediation Action Plan

Montgomery County Public Schools Lead in Drinking Water Testing Report

Roscoe R. Nix Elementary School 1100 Corliss Street Silver Spring, MD 20903

Report Date: February 19th, 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	56
# of Outlets ≥ 5 ppb	3

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:

- 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

Lead in Water Sample Results Table

Sampling Results for Roscoe R. Nix ES

Fixture Barcode	Fixture Location Fixture Type		Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05779	In resource center 237D	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05780	In classroom 159	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
LW05781	In classroom 159	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW05782	In classroom 156	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05783	In classroom 156	Classroom Combination Drinking Fountain	2.9	Pass	N/A	Testing Complete
LW05784	In classroom 151	Classroom Combination Drinking Fountain	3.5	Pass	N/A	Testing Complete
LW05785	In classroom 148	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05786	In classroom 148	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05789	In break room 100G	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW11415	In health room 102D	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M28683	In hallway adjacent to 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28684	In hallway adjacent to 174	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28690	In classroom 162	Classroom Sink	<1	Pass	N/A	Testing Complete
M28693	In classroom 166	Classroom Sink	<1	Pass	N/A	Testing Complete
M28695	In classroom 170	Classroom Sink	<1	Pass	N/A	Testing Complete
M28698	In classroom 165	Classroom Combination Drinking Fountain	5.0	Fail	1.4	Testing Complete
M28703	In classroom 160	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28704	In classroom 160	Classroom Combination Drinking Fountain	3.6	Pass	N/A	Testing Complete
M28709	In classroom 155	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28710	In classroom 155	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M28712	In classroom 152	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28713	In classroom 152	Classroom Combination Drinking Fountain	6.6	Fail	1.4	Testing Complete
M28715	In classroom 151	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28718	In classroom 147	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28719	In classroom 147	Classroom Combination Drinking Fountain	4.0	Pass	N/A	Testing Complete
M28725	In classroom 146	Classroom Sink	<1	Pass	N/A	Testing Complete
M28727	In classroom 142	Classroom Sink	<1	Pass	N/A	Testing Complete
M28728	In hallway adjacent to 140	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28729	In hallway adjacent to 140	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28738	In hallway adjacent to 118	Drinking Fountain	<1	Pass	N/A	Testing Complete

M28739	In hallway adjacent to 118	Drinking Fountain	<1	Pass	N/A	Testing
W128733	in nanway adjacent to 118	Drinking Fountain	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 033	11/7	Complete
M28751	In kitchen	Kitchen Sink	5.5	Fail	<1	Testing Complete
M28752	In kitchen	Kitchen Sink		Pass	N/A	Testing Complete
M28753	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28754	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28757	In work room 104	Teachers Lounge Sink	3.4	Pass	N/A	Testing Complete
M28761	In classroom 244	Classroom Sink	<1	Pass	N/A	Testing Complete
M28763	In classroom 240	Classroom Sink	1.5	Pass	N/A	Testing Complete
M28764	In classroom 236	Classroom Sink	<1	Pass	N/A	Testing Complete
M28765	In classroom 235	Classroom Sink	<1	Pass	N/A	Testing Complete
M28766	In classroom 234	Classroom Sink	<1	Pass	N/A	Testing Complete
M28767	In classroom 231	Classroom Sink	<1	Pass	N/A	Testing Complete
M28769	In classroom 230	Classroom Sink	<1	Pass	N/A	Testing Complete
M28770	In classroom 229	Classroom Sink	<1	Pass	N/A	Testing Complete
M28771	In classroom 213	Classroom Sink	1.5	Pass	N/A	Testing Complete
M28783	In hallway adjacent to 220	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28784	In hallway adjacent to 220	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28785	In hallway adjacent to 224	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28786	In hallway adjacent to 224	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28787	In classroom 211	Classroom Sink	<1	Pass	N/A	Testing Complete
M28788	In classroom 212	Classroom Sink	<1	Pass	N/A	Testing Complete
M28789	In classroom 207	Classroom Sink	<1	Pass	N/A	Testing Complete
M28790	In classroom 208	Classroom Sink	<1	Pass	N/A	Testing Complete
M28791	In classroom 204	Classroom Sink	<1	Pass	N/A	Testing Complete
M28792	In classroom 200	Classroom Sink	<1	Pass	N/A	Testing Complete
M28793	In staff development 203D	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete



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Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 24, 2018

Executive Summary: Roscoe R. Nix Elementary School

1100 Corliss Street Silver Spring, Maryland 20903

Round of Testing:	Initial
# of Outlets Tested:	56
# of Outlets ≥20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	14.2

Project Status:

Testing Complete: All results less than 20 ppb.



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May 24, 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: Roscoe R. Nix Elementary School

1100 Corliss Street Silver Spring, Maryland 20903

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 Roscoe R. Nix Elementary School, located at 1100 Corliss Street in Silver Spring, Maryland 20903.

SCOPE OF SERVICES

KCI conducted lead in water testing at Roscoe R. Nix 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 4/19/2018 and 4/20/2018 to collect samples from 56 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 4/20/2018 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.

Kara Hellen

Kamau McAbee

MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

Lead in Water Test Summary Table

Lead in Water Test Summary Table

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

Sample Results for Roscoe R. Nix Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05779	237D	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW05780	159	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05781	159	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05782	156	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05783	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05784	151	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05785	148	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05786	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05789	100G	Break Room		Faucet	<1.0	Pass	Testing Complete
LW11414	100G	Break Room		Instant Hot Water	<1.0	Pass	Testing Complete
LW11415	102D	Health Room		Faucet	<1.0	Pass	Testing Complete
LW11416	102G	Health Room		Faucet	14.2	Pass	Testing Complete
M28683		Hallway	Next To 172	Cooler	<1.0	Pass	Testing Complete
M28684		Hallway	Next To 172	Cooler	<1.0	Pass	Testing Complete
M28690	162	Classroom		Faucet	<1.0	Pass	Testing Complete
M28693	166	Classroom		Faucet	<1.0	Pass	Testing Complete
M28695	170	Classroom		Faucet	<1.0	Pass	Testing Complete
M28697	165	Special Ed		Faucet	<1.0	Pass	Testing Complete
M28703	160	Classroom		Faucet	<1.0	Pass	Testing Complete
M28704	160	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28709	155	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M28710	155	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28712	152	Classroom		Faucet	<1.0	Pass	Testing Complete
M28713	152	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28715	151	Classroom		Faucet	<1.0	Pass	Testing Complete
M28718	147	Classroom		Faucet	<1.0	Pass	Testing Complete
M28719	147	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28725	146	Classroom		Faucet	<1.0	Pass	Testing Complete
M28727	142	Classroom		Faucet	<1.0	Pass	Testing Complete
M28728		Hallway	Next To 136	Cooler	<1.0	Pass	Testing Complete
M28729		Hallway	Next To 136	Cooler	<1.0	Pass	Testing Complete
M28738		Hallway	Next To 120	Cooler	<1.0	Pass	Testing Complete
M28739		Hallway	Next To 120	Cooler	<1.0	Pass	Testing Complete
M28751		Kitchen		Faucet	3.9	Pass	Testing Complete
M28752		Kitchen		Faucet	2.7	Pass	Testing Complete
M28753		Kitchen		Faucet	1.4	Pass	Testing Complete
M28754		Kitchen		Faucet	<1.0	Pass	Testing Complete
M28757	104	Work Room		Faucet	1.3	Pass	Testing Complete
M28761	244	Classroom		Faucet	<1.0	Pass	Testing Complete
M28763	240	Classroom		Faucet	<1.0	Pass	Testing Complete
M28764	236	Classroom		Faucet	1.0	Pass	Testing Complete
M28765	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M28766	234	Classroom		Faucet	<1.0	Pass	Testing Complete
M28767	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M28769	230	Classroom		Faucet	<1.0	Pass	Testing Complete
M28770	229	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M28771	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M28785		Hallway	Next To 224	Cooler	<1.0	Pass	Testing Complete
M28786		Hallway	Next To 224	Cooler	<1.0	Pass	Testing Complete
M28787	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M28788	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M28789	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M28790	208	Classroom		Faucet	<1.0	Pass	Testing Complete
M28791	204	Classroom		Faucet	<1.0	Pass	Testing Complete
M28792	200	Classroom		Faucet	<1.0	Pass	Testing Complete
M28793	203D	Staff Development		Faucet	<1.0	Pass	Testing Complete

^{*}PPB = parts per billion