

Montgomery County Public Schools Lead in Drinking Water Testing Report

Jackson Road Elementary School
900 Jackson Rd.
Silver Spring, MD 20904

Report Date: June 12th, 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	5/1/2024
# of Outlets Tested	40
# 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 Jackson Road ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW03611	In classroom 153	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03613	In classroom 152	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03615	In classroom 154	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03617	In classroom 155	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03699	In hallway next to staff bathroom	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW03700	In hallway next to staff bathroom	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW03710	In classroom 106	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03712	In classroom 175	Drinking Water fountain - Bubbler Style	3.5	Pass	Testing Complete
LW03714	In classroom 174	Drinking Water fountain - Bubbler Style	16.8	Fail	Remediation Action Plan
LW03716	In hallway next to room 204	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW03717	In classroom 202	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW03719	In classroom 204	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03721	In classroom 206	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW03748	In hallway across from 110	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
LW04425	In health room 124	Faucet, Cold	<2.0	Pass	Testing Complete
LW04428	In kitchen 138	Faucet, Cold	<2.0	Pass	Testing Complete
LW04429	In kitchen 138	Faucet, Cold	<2.0	Pass	Testing Complete
LW04430	In kitchen 138	Faucet, Cold	<2.0	Pass	Testing Complete
LW04431	In kitchen 138	Faucet, Cold	2.3	Pass	Testing Complete
LW04432	In music 139	Drinking Water fountain - Bubbler Style	2.1	Pass	Testing Complete
LW04434	In classroom 143	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW04436	In classroom 145	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW10622	Hallway adjacent to 151 girls	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW10920	Hallway adjacent to 134	Bottle Refill Dispenser/Water Refill Station	<2.0	Pass	Testing Complete
LW10922	In classroom 369	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
LW10923	In hallway next to staff bathroom	Bottle Refill Dispenser/Water Refill Station	<2.0	Pass	Testing Complete
M09875	In staff lounge 163	Faucet, Cold	<2.0	Pass	Testing Complete
M09877	In classroom 164	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09881	In classroom 168	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09883	In hallway across from CR 169	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M09887	In classroom 171	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09918	In hallway across from CR 369	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M09919	In hallway across from CR 369	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M09928	In classroom 375	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09932	In classroom 371	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M09934	In classroom 372	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09936	In classroom 374	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M09938	In classroom 374	Drinking Water fountain - Bubbler Style	<2.0	Pass	Testing Complete
M50685	In hallway across from APR of stage	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete
M50686	In hallway across from APR of stage	Drinking Water Fountain - Cooler/Chiller Style	<2.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

Jackson Road Elementary School
900 Jackson Road
Silver Spring 20904

Report Date: February 20th, 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	11/9/2021
# of Outlets Tested	103
# of Outlets \geq 5 ppb	7

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 Jackson Road Elementary School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03606	In classroom 147	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03607	In classroom 147	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
LW03608	In classroom 150	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW03609	In classroom 150	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03610	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03611	In classroom 153	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03612	In classroom 153	Classroom Combination Sink	3.7	Pass	N/A	Testing Complete
LW03613	In classroom 152	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW03614	In classroom 152	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03615	In classroom 154	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW03616	In classroom 154	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
Lw03617	In classroom 155	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
Lw03618	In classroom 155	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03697	In classroom 211	Classroom Combination Drinking Fountain	30.4	Fail	Device removed	Testing Complete
LW03698	In classroom 211	Classroom Combination Sink	34.1	Fail	7.5	Testing Complete
LW03699	In hallway next to staff bathroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03700	In hallway next to staff bathroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03710	In classroom 106	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW03711	In classroom 175	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03712	In classroom 175	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW03713	In classroom 174	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03714	In classroom 174	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03715	In classroom 374	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03716	In hallway next to room 204	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03717	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03718	In classroom 202	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
LW03719	In classroom 204	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW03720	In classroom 204	Classroom Combination Sink	3.3	Pass	N/A	Testing Complete
LW03721	In classroom 206	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW03722	In classroom 206	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03724	In classroom 109	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW03725	In classroom 107	Classroom Combination Drinking Fountain	36.3	Fail	Device removed	Testing Complete
LW03726	In classroom 107	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03727	In classroom 108	Classroom Combination Sink	4.8	Pass	N/A	Testing Complete
LW03728	In classroom 108	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03730	In classroom 105	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03732	In classroom 105	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03734	In classroom 106	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03735	In classroom 106	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03736	In resource center 135	Classroom Combination Drinking Fountain	13.7	Fail	Device removed	Testing Complete
LW03737	In ESOL 135	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW03739	In work room 126	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03741	In classroom 114	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03742	In classroom 114	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW03744	In classroom 113	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03745	In classroom 113	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03746	In classroom 110	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03747	In classroom 110	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
LW03748	In hallway across from 110	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04425	In health room 124	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW04427	In media center office 118A	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW04428	In kitchen 138	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04429	In kitchen 138	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04430	In kitchen 138	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04431	In kitchen 138	Kitchen Sink	1.4	Pass	N/A	Testing Complete
LW04432	In music 139	Classroom Combination Drinking Fountain	2.3	Pass	N/A	Testing Complete
LW04433	In music 139	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04434	In classroom 143	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
LW04435	In classroom 143	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW04436	In classroom 145	Classroom Combination Drinking Fountain	2.3	Pass	N/A	Testing Complete
LW04437	In classroom 145	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10621	In classroom 100	Classroom Combination Sink	5.7	Fail	1.2	Testing Complete
Lw10622	Hallway adjacent to 151 girls	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10738	In classroom 100	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
Lw10920	Hallway adjacent to 134	Bottle Filler	<1	Pass	N/A	Testing Complete

LW10922	In classroom 369	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
Lw10923	In hallway next to staff bathroom	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw10924	In classroom 104	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW10925	In classroom 104	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW10926	In classroom 104	Classroom Combination Drinking Fountain	11.3	Fail	Device removed	Testing Complete
LW10927	In classroom 104	Classroom Combination Sink	5.7	Fail	13.0	Testing Complete
LW10928	In office 103	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
Lw10929	In office 103	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09875	In staff lounge 163	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M09876	In HALLWAY 164	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09877	In classroom 164	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
M09878	In classroom 166	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09880	In classroom 168	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09881	In classroom 168	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09882	In hallway across from CR 169	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09883	In hallway across from CR 169	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09884	In classroom 169	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09886	In classroom 171	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09887	In classroom 171	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09888	In classroom 172	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09912	In classroom 363	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M09914	In classroom 366	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09915	In classroom 366	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09916	In classroom 368	Classroom Sink	<1	Pass	N/A	Testing Complete
M09918	In hallway across from CR 369	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09919	In hallway across from CR 369	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09927	In classroom 375	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09928	In classroom 375	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09929	In classroom 369	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09931	In classroom 371	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09932	In classroom 371	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09933	In classroom 372	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09934	In classroom 372	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09936	In classroom 374	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M09937	In classroom 374	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09938	In classroom 374	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M50685	In hallway across from APR of stage	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50686	In hallway across from APR of stage	Drinking Fountain	<1	Pass	N/A	Testing Complete



**MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER
POST-REMEDATION FOLLOW-UP TESTING 2019**

August 29, 2019

Executive Summary:

Jackson Road Elementary School
900 Jackson Road, Silver Spring, MD 20904

Round of Testing:	Post-Remediation Follow-Up
Sample Date	02/01/2019
# of Outlets Tested:	1
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	1.7
High Value (ppb):	1.7

Project Status

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

ESOL 135: Outlet (LW03736) will be placed back into service



August 29, 2019

Mr. Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Post-remediation follow-up Testing Service

Location: Jackson Road Elementary School
900 Jackson Road,
Silver Spring, MD 20904

Dear Mr. Mullikin:

Intertek-PSI Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation lead in water testing at Jackson Road Elementary School, located at 900 Jackson Road in Silver Spring, MD 20904.

Scope of Services:

One (1) drinking water outlet was remediated at Jackson Road Elementary School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). Intertek-PSI 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.

Intertek-PSI visited the site on 01/31/2019 and 02/01/2019 to collect post-remediation follow-up sample from 1 drinking water outlet 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
LW03736	135	ESOL		Bubbler-Indoor	40.9	6.7	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,

INTERTEK-PSI

Nan Lin
Department Manager, Environmental Services
nan.lin@intertek.com



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 11, 2018

Executive Summary:

Jackson Road Elementary School

900 Jackson Road

Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	91
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	40.9
Follow-Up Testing Required (Samples ≥ 20 ppb):	ESOL 135 (40.9 ppb)

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

Project Status:

Testing Complete: Remediation Plan

ESOL 135 - Replace fixture (LW03736), in addition to supply line and valve located under sink



May 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 #1214634191

Location: Jackson Road Elementary School

900 Jackson Road
Silver Spring, Maryland 20904

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 Jackson Road Elementary School, located at 900 Jackson Road in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Jackson Road 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 4/12/2018 and 4/13/2018 to collect samples from 91 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 5/2/2018, 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)
LW03736	Bubbler - Indoor - ESOL 135	4/13/2018	40.9	5/2/2018	1.5

The initial lead in water sample results (4/13/2018) and 30 second follow up result (5/2/2018) 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

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

Initial Sample Results for Jackson Road Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03606	147	Classroom		Bubbler - Indoor	2.7	Pass	Testing Complete
LW03607	147	Classroom		Faucet	1.2	Pass	Testing Complete
LW03608	150	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW03609	150	Classroom		Faucet	3.6	Pass	Testing Complete
LW03610		Hallway		Cooler	<1.0	Pass	Testing Complete
LW03612	153	Classroom		Faucet	3.8	Pass	Testing Complete
LW03613	152	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW03614	152	Classroom		Faucet	3.1	Pass	Testing Complete
LW03615	154	Classroom		Bubbler - Indoor	3.5	Pass	Testing Complete
LW03616	154	Classroom		Faucet	3.6	Pass	Testing Complete
LW03697	211	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW03698	211	Classroom		Faucet	2.0	Pass	Testing Complete
LW03700		Hallway	Across From Elevator	Cooler	<1.0	Pass	Testing Complete
LW03710	106	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW03711	175	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03712	175	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03713	174	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03714	174	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03715	374	Classroom		Faucet	3.9	Pass	Testing Complete
LW03716		Hallway	Next To Room 204	Cooler	<1.0	Pass	Testing Complete
LW03717	202	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
LW03718	202	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03719	204	Classroom		Bubbler - Indoor	2.3	Pass	Testing Complete
LW03720	204	Classroom		Faucet	4.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03721	206	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW03722	206	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03723	109	Classroom		Bubbler - Indoor	5.8	Pass	Testing Complete
LW03724	109	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03725	107	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW03726	107	Classroom		Faucet	2.6	Pass	Testing Complete
LW03727	108	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03728	108	Classroom		Faucet	1.5	Pass	Testing Complete
LW03730	105	Classroom		Faucet	2.6	Pass	Testing Complete
LW03732	105	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03733	106	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW03734	106	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03735	106	Classroom		Faucet	1.2	Pass	Testing Complete
LW03736	135	ESOL		Bubbler - Indoor	40.9	Fail	Follow Up Testing Needed
LW03737	135	ESOL		Faucet	<1.0	Pass	Testing Complete
LW03738	126	Work Room		Bubbler - Indoor	19.7	Pass	Testing Complete
LW03739	126	Work Room		Faucet	<1.0	Pass	Testing Complete
LW03740	114	Classroom		Bubbler - Indoor	16.5	Pass	Testing Complete
LW03741	114	Classroom		Faucet	2.3	Pass	Testing Complete
LW03742	114	Classroom		Faucet	3.6	Pass	Testing Complete
LW03743	114	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW03744	113	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW03745	113	Classroom		Faucet	2.9	Pass	Testing Complete
LW03746	110	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03747	110	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03748		Hallway	Across From 110	Cooler	<1.0	Pass	Testing Complete
LW04425	124	Health Room		Faucet	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04427	118A	Media Center Office		Faucet	2.4	Pass	Testing Complete
LW04428	138	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04429	138	Kitchen		Faucet	2.5	Pass	Testing Complete
LW04430	138	Kitchen		Faucet	1.8	Pass	Testing Complete
LW04431	138	Kitchen		Faucet	4.7	Pass	Testing Complete
LW04432	139	Music		Bubbler - Indoor	1.4	Pass	Testing Complete
LW04433	139	Music		Faucet	2.0	Pass	Testing Complete
LW04434	143	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW04435	143	Classroom		Faucet	2.8	Pass	Testing Complete
LW04436	145	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW04437	145	Classroom		Faucet	2.8	Pass	Testing Complete
M09878	166	Classroom		Faucet	<1.0	Pass	Testing Complete
M09880	168	Classroom		Faucet	<1.0	Pass	Testing Complete
M09881	168	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09882		Hallway	Across from CR 169	Cooler	<1.0	Pass	Testing Complete
M09883		Hallway	Across from CR 169	Cooler	<1.0	Pass	Testing Complete
M09884	169	Classroom		Faucet	<1.0	Pass	Testing Complete
M09885	169	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09886	171	Classroom		Faucet	<1.0	Pass	Testing Complete
M09887	171	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09888	172	Classroom		Faucet	<1.0	Pass	Testing Complete
M09889	172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09912	363	Classroom		Faucet	<1.0	Pass	Testing Complete
M09914	366	Classroom		Faucet	<1.0	Pass	Testing Complete
M09915	366	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09916	368	Classroom		Faucet	<1.0	Pass	Testing Complete
M09918		Hallway	Across from CR 369	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M09918		Hallway	Across from CR 369	Cooler	<1.0	Pass	Testing Complete
M09927	375	Classroom		Faucet	<1.0	Pass	Testing Complete
M09928	375	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09929	369	Classroom		Faucet	<1.0	Pass	Testing Complete
M09931	371	Classroom		Faucet	<1.0	Pass	Testing Complete
M09932	371	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09933	372	Classroom		Faucet	<1.0	Pass	Testing Complete
M09934	372	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09936	374	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09937	374	Classroom		Faucet	<1.0	Pass	Testing Complete
M09938	374	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M50685		Hallway	Across from APR of Stage	Cooler	<1.0	Pass	Testing Complete
M50686		Hallway	Across from APR of Stage	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Result for Jackson Road Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW03736	135	ESOL	Bubbler - Indoor	N/A	6.7	1.5	Remediation required – replace fixture, in addition to supply line and valve located under sink

*PPB = parts per billion