

Montgomery County Public Schools Lead in Drinking Water Testing Report

Summit Hall Elementary School
101 West Deer Park Rd
Gaithersburg, MD 20877

Report Date: June 16th, 2023

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	3/14/23
# of Outlets Tested	61
# of Outlets \geq 5 ppb	5

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 workplace 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 Summit Hall ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW00716	In hallway across from mens restroom	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00717	In hallway across from mens restroom	Drinking Fountain	<1.0	Pass	Testing Complete
LW00718	In hallway across from mens restroom	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00720	In classroom 202	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00722	In classroom 201	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00724	In classroom 204	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00726	In classroom 203	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00728	In classroom 207	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00730	In classroom 208	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00732	In classroom 209	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00734	In classroom 210	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00735	In hallway across from mens restroom	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00736	In hallway across from mens restroom	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00737	In hallway across from mens restroom	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00739	In classroom 301	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00741	in classroom 302	Classroom Combination Sink	< 1.0	Pass	Testing Complete
LW00743	In classroom 303	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00745	In classroom 304	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW00747	In classroom 307	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00749	In classroom 308	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00751	In classroom 309	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00753	In classroom 310	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00754	In health room 121	Nurses Office Sink	< 1.0	Pass	Testing Complete
LW00755	In health room 109 by health	Nurses Office Sink	< 1.0	Pass	Testing Complete
LW00756	In health room 114	Nurses Office Sink	< 1.0	Pass	Testing Complete
LW00757	In health room 115	Nurses Office Sink	< 1.0	Pass	Testing Complete
LW00759	In classroom 26	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00760	In classroom 25	Classroom Combination Sink	< 1.0	Pass	Testing Complete
LW00761	In classroom 25	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00762	In classroom 24	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00764	In classroom 22	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00766	In classroom 21	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00767	in classroom 5	Classroom Combination Drinking Fountain	9.0	Fail	Remediation Action Plan
LW00770	in classroom 18	Classroom Combination Drinking Fountain	2.4	Pass	Testing Complete
LW00772	in classroom 17	Classroom Combination Drinking Fountain	4.4	Pass	Testing Complete
LW00774	in classroom 16	Classroom Combination Drinking Fountain	2.6	Pass	Testing Complete
LW00775	In hallway next to classroom 3	Drinking Fountain	5.4	Fail	Remediation Action Plan

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW00777	In music 1	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00779	In classroom 20	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00780	In hallway next to room 16	Drinking Fountain	< 1.0	Pass	Testing Complete
LW00783	In art 3	Classroom Combination Drinking Fountain	4.5	Pass	Testing Complete
LW00785	in classroom 4	Classroom Combination Drinking Fountain	4.9	Pass	Testing Complete
LW00788	In hallway between 12 and 14	Drinking Fountain	6.5	Fail	Remediation Action Plan
LW00790	in classroom 14	Classroom Combination Drinking Fountain	17.4	Fail	Remediation Action Plan
LW00794	In music 2	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00796	In work room by administration	Classroom Sink	< 1.0	Pass	Testing Complete
LW00798	In classroom 6	Classroom Combination Drinking Fountain	8.2	Fail	Remediation Action Plan
LW00800	In classroom 13	Classroom Combination Drinking Fountain	3.7	Pass	Testing Complete
LW00802	In classroom 12	Classroom Combination Drinking Fountain	2.3	Pass	Testing Complete
LW00804	In classroom 11	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00805	In classroom 10	Classroom Sink	< 1.0	Pass	Testing Complete
LW00808	In classroom 9	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00810	In classroom 8	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
LW00812	In classroom 7	Classroom Combination Drinking Fountain	4.3	Pass	Testing Complete
LW00813	In hallway next to gym entrance	Drinking Fountain	< 1.0	Pass	Testing Complete
LW05509	in classroom 15	Classroom Combination Drinking Fountain	1.3	Pass	Testing Complete
LW08281	In classroom 23	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW11713	in Kitchen	Kitchen Sink	< 1.0	Pass	Testing Complete
LW11714	in Kitchen	Kitchen Sink	< 1.0	Pass	Testing Complete
LW11715	in kitchen	Kitchen Sink	< 1.0	Pass	Testing Complete
M00101	In kitchen by kitchen ie. by loading dock	Kitchen Sink	5.0	Fail	Remediation Action Plan
M00103	In break room by administration	Teachers Lounge Sink	< 1.0	Pass	Testing Complete
M00145	In classroom 33	Classroom Combination Drinking Fountain	< 1.0	Pass	Testing Complete
M00192	In hallway across from CR 7	Drinking Fountain	< 1.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Summit Hall Elementary School
101 West Deer Park Road
Gaithersburg, MD 20877**

Report Date: March 31st, 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	1/31/2020
# of Outlets Tested	91
# of Outlets \geq 5 ppb	5

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.

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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 Summit Hall ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00716	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00717	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00718	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00719	In classroom 202	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00720	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00721	In classroom 201	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00722	In classroom 201	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00723	In classroom 204	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00724	In classroom 204	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00725	In classroom 203	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00726	In classroom 203	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00727	In classroom 207	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00728	In classroom 207	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00729	In classroom 208	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00730	In classroom 208	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00731	In classroom 209	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00732	In classroom 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00733	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00734	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00735	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00736	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00737	In hallway across from mens restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00738	In classroom 301	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00739	In classroom 301	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00740	In classroom 302	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00742	In classroom 303	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00743	In classroom 303	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW00744	In classroom 304	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00745	In classroom 304	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00746	In classroom 307	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00747	In classroom 307	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00748	In classroom 308	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00749	In classroom 308	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00750	In classroom 309	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00751	In classroom 309	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00752	In classroom 310	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00753	In classroom 310	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00754	In health room 121	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW00755	In health room 109 by health	Nurses Office Sink	1.4	Pass	N/A	Testing Complete
LW00756	In health room 114	Nurses Office Sink	1.5	Pass	N/A	Testing Complete
LW00757	In health room 115	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW00758	In classroom 26	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00759	In classroom 26	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00760	In classroom 25	Classroom Combination Sink	2.4	Pass	N/A	Testing Complete
LW00761	In classroom 25	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW00762	In classroom 24	Classroom Combination Drinking Fountain	6.2	Fail	<1	Remediation Action Plan
LW00763	In classroom 23	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00764	In classroom 22	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00765	In classroom 21	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00766	In classroom 21	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW00769	In classroom 19	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
LW00771	In classroom 17	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW00775	In hallway next to classroom 3	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00776	In music 1	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
LW00777	In music 1	Classroom Combination Drinking Fountain	4.2	Pass	N/A	Testing Complete
LW00779	In classroom 20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00780	In hallway next to room 16	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00781	In media center by media center	Classroom Sink	2.2	Pass	N/A	Testing Complete

LW00783	In art 3	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing Complete
LW00784	In classroom 4	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW00788	In hallway between 12 and 14	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00791	In classroom 15	Classroom Sink	2.2	Pass	N/A	Testing Complete
LW00794	In music 2	Classroom Combination Drinking Fountain	10.2	Fail	2.3	Remediation Action Plan
LW00795	In office DNKA by administration	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW00796	In work room by administration	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00797	In classroom 6	Classroom Combination Sink	9.3	Fail	2.2	Remediation Action Plan
LW00798	In classroom 6	Classroom Combination Drinking Fountain	4.7	Pass	N/A	Testing Complete
LW00799	In classroom 13	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW00800	In classroom 13	Classroom Combination Drinking Fountain	1.0	Pass	N/A	Testing Complete
LW00801	In classroom 12	Classroom Combination Sink	2.9	Pass	N/A	Testing Complete
LW00802	In classroom 12	Classroom Combination Drinking Fountain	32.7	Fail	41.7	Remediation Action Plan
LW00803	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00804	In classroom 11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00805	In classroom 10	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW00806	In classroom 10	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW00807	In classroom 9	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW00808	In classroom 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00809	In classroom 8	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00810	In classroom 8	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW00811	In classroom 7	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00812	In classroom 7	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete
LW00813	In hallway next to gym entrance	Drinking Fountain	<1	Pass	N/A	Testing Complete
M00099	In kitchen by kitchen	Kitchen Sink	1.6	Pass	N/A	Testing Complete
M00100	In kitchen by kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M00101	In kitchen by kitchen ie. by loading dock	Kitchen Sink	8.0	Fail	13.6	Remediation Action Plan
M00103	In break room by administration	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M00137	In classroom 24	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
M00141	In classroom 22	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M00145	In classroom 33	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M00192	In hallway across from CR 7	Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW08281	In classroom 23	Classroom Combination Drinking Fountain	4.2	Pass	N/A	Testing Complete



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

August 30, 2019

Executive Summary:

Summit Hall Elementary School

101 W Deer Park Road

Gaithersburg, Maryland 20877

Round of Testing:	Post-Remediation Follow-up
Sample Date	1/24/19
# of Outlets Tested:	2
# of Outlets ≥ 5 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.3

Project Status

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

Classroom 23 - Outlet (LW00763) will be placed back into service

Classroom 19 - Outlet (LW00769) 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: Summit Hall Elementary School

101 W Deer Park Road
Gaithersburg, Maryland 20877

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 Summit Hall Elementary School, located at 101 W Deer Park Road in Gaithersburg, Maryland 20877.

SCOPE OF SERVICES

Two drinking water outlets were remediated at Summit Hall 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 1/23/19 and 1/24/19 to collect post-remediation follow-up samples from 2 drinking water outlets 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
LW00763	23	Classroom		Faucet	21.5	<1.0	<1.0	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
LW00769	19	Classroom		Faucet	32.4	9.8	4.3	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 DRINKING WATER TESTING 2018

May 3, 2018

Executive Summary:
Summit Hall Elementary School
101 West Deer Park Road
Gaithersburg, MD 20877

Round of Testing:	Initial
# of Outlets Tested:	103
# of Outlets \geq 20 ppb:	2
Low Value (ppb):	< 1.0
High Value (ppb):	32.4
Follow-Up Testing Required (Samples \geq 20 ppb):	Room 23 (21.5 ppb) Room 19 (32.4 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	2

Project Status
Testing Complete: Remediation Plan

Room 19 – Replace fixture (LW00769), in addition to supply line and valve located under sink
Room 23 – Replace fixture (LW00763), in addition to supply line and valve located under sink



May 3, 2018

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 Testing Service

Location: Summit Hall Elementary School
101 West Deer Park Road
Gaithersburg, MD 20877

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Summit Hall Elementary School, located at 101 West Deer Park Road in Gaithersburg, MD 20877.

Scope of Services:

PSI conducted lead in water testing at Summit Hall 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.

PSI visited the site on 02/5/18 and 02/6/18 to collect samples from 103 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. Two 30 second follow-up samples were collected on 4/11/18.

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 were two results of the initial 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)
LW00763	Classroom 23	2/6/2018	21.5	4/11/18	Non Detect
LW00769	Classroom 19	2/6/2018	32.4	4/11/18	9.8

The initial lead in water sample results (02/6/18) and 30 second follow up results (4/11/18) 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,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Nand Kaushik, P.E.
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Attachments: A – Lead in Water Test Summary Table

ATTACHMENT A

Summit Hall ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Summit Hall Elementary School (2/6/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00716		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete
LW00717		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete
LW00718		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete
LW00719	202	Classroom		Faucet	1.2	Pass	Testing Complete
LW00720	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00721	201	Classroom		Faucet	1.1	Pass	Testing Complete
LW00722	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00723	204	Classroom		Faucet	1.0	Pass	Testing Complete
LW00724	204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00725	203	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00726	203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00727	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00728	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00729	208	Classroom		Faucet	1.4	Pass	Testing Complete
LW00730	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00731	209	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00732	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00733	210	Classroom		Faucet	1.2	Pass	Testing Complete
LW00734	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00735		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete
LW00736		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete
LW00737		Hallway	Across From Men's Restroom	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00738	301	Classroom		Faucet	2.4	Pass	Testing Complete
LW00739	301	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00740	302	Classroom		Faucet	3.7	Pass	Testing Complete
LW00741	302	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW00742	303	Classroom		Faucet	1.7	Pass	Testing Complete
LW00743	303	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00744	304	Classroom		Faucet	1.1	Pass	Testing Complete
LW00745	304	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00746	307	Classroom		Faucet	1.4	Pass	Testing Complete
LW00747	307	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00748	308	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00749	308	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00750	309	Classroom		Faucet	1.1	Pass	Testing Complete
LW00751	309	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00752	310	Classroom		Faucet	1.2	Pass	Testing Complete
LW00753	310	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00754	121	Health Room		Faucet	1.4	Pass	Testing Complete
LW00755	109	Health Room		Faucet	2.2	Pass	Testing Complete
LW00756	114	Health Room		Faucet	1.8	Pass	Testing Complete
LW00757	115	Health Room		Faucet	1.7	Pass	Testing Complete
LW00758	26	Classroom		Faucet	1.3	Pass	Testing Complete
LW00759	26	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW00760	25	Classroom		Faucet	2.3	Pass	Testing Complete
LW00761	25	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW00762	24	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW00763	23	Classroom		Faucet	21.5	Fail	Follow-Up Testing Needed
LW00764	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00765	21	Classroom		Faucet	2.6	Pass	Testing Complete
LW00766	21	Classroom		Bubbler - Indoor	2.7	Pass	Testing Complete
LW00768	18	Classroom		Faucet	10.1	Pass	Testing Complete
LW00769	19	Classroom		Faucet	32.4	Fail	Follow-Up Testing Needed
LW00770	19	Classroom		Bubbler - Indoor	7.6	Pass	Testing Complete
LW00771	17	Classroom		Faucet	4.4	Pass	Testing Complete
LW00773	16	Classroom		Faucet	9.6	Pass	Testing Complete
LW00774	16	Classroom		Bubbler - Indoor	6.2	Pass	Testing Complete
LW00775		Hallway	Next To Classroom 3	Cooler	<1.0	Pass	Testing Complete
LW00776	1	Music		Faucet	4.9	Pass	Testing Complete
LW00777	1	Music		Bubbler - Indoor	4.2	Pass	Testing Complete
LW00778	20	Classroom		Faucet	5.6	Pass	Testing Complete
LW00779	20	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW00780		Hallway	Next To Classroom 16	Cooler	<1.0	Pass	Testing Complete
LW00781		Media Center		Faucet	4.7	Pass	Testing Complete
LW00782	3	Art		Faucet	4.7	Pass	Testing Complete
LW00783	3	Art		Bubbler - Indoor	2.9	Pass	Testing Complete
LW00784	4	Classroom		Faucet	2.2	Pass	Testing Complete
LW00785	4	Classroom		Bubbler - Indoor	5.3	Pass	Testing Complete
LW00786	5	Classroom		Faucet	16.1	Pass	Testing Complete
LW00787	5	Classroom		Bubbler - Indoor	15.3	Pass	Testing Complete
LW00788		Hallway	Between Classroom 12 And 14	Cooler	<1.0	Pass	Testing Complete
LW00789	14	Classroom		Faucet	8.3	Pass	Testing Complete
LW00790	14	Classroom		Bubbler - Indoor	6.5	Pass	Testing Complete
LW00791	15	Classroom		Faucet	1.7	Pass	Testing Complete
LW00792	15	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW00793	2	Music		Faucet	6.8	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00795	DNIKA	Office Administration		Faucet	2.1	Pass	Testing Complete
LW00796		Work Room Administration		Faucet	1.8	Pass	Testing Complete
LW00797	6	Classroom		Faucet	4.4	Pass	Testing Complete
LW00798	6	Classroom		Bubbler - Indoor	3.8	Pass	Testing Complete
LW00799	13	Classroom		Faucet	2.4	Pass	Testing Complete
LW00800	13	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW00801	12	Classroom		Faucet	4.1	Pass	Testing Complete
LW00802	12	Classroom		Bubbler - Indoor	4.5	Pass	Testing Complete
LW00803	11	Classroom		Faucet	2.2	Pass	Testing Complete
LW00804	11	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW00805	10	Classroom		Faucet	4.7	Pass	Testing Complete
LW00806	10	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW00807	9	Classroom		Faucet	4.2	Pass	Testing Complete
LW00808	9	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW00809	8	Classroom		Faucet	2.4	Pass	Testing Complete
LW00810	8	Classroom		Bubbler - Indoor	4.6	Pass	Testing Complete
LW00811	7	Classroom		Faucet	2.1	Pass	Testing Complete
LW00812	7	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW00813		Hallway	Next To Gym Entrance	Cooler	<1.0	Pass	Testing Complete
M00099		Kitchen		Faucet	2.9	Pass	Testing Complete
M00100		Kitchen		Faucet	2.7	Pass	Testing Complete
M00101		Kitchen	By Loading Dock	Faucet	3.9	Pass	Testing Complete
M00103		Break Room Administration		Faucet	1.3	Pass	Testing Complete
M00137	24	Classroom		Faucet	2.4	Pass	Testing Complete
M00141	22	Classroom		Faucet	<1.0	Pass	Testing Complete
M00145	33	Classroom		Faucet	2.2	Pass	Testing Complete
M00192		Hallway	Across from CR 7	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Summit Hall Elementary School (4/11/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	Initial draw (3 rd) (PPB)	30 Second Draw (PPB)	Status
LW00763	23	Classroom	Faucet	3.4	2.3	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW00769	19	Classroom	Faucet	19.2	29.1	9.8	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion

ND = Non Detect

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.