

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Watkins Mill Elementary School  
19001 Watkins Mill Road  
Montgomery Village, MD 20886**

**Report Date: July 24th, 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	4/19/23
# of Outlets Tested	54
# of Outlets $\geq$ 5 ppb	12

## **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](mailto: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](http://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 Watkins Mill ES

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
LW00484	In classroom 14	Classroom Combination Drinking Fountain	13.0	Fail	Remediation Action Plan
LW00488	In health room by administration	Nurses Office Sink	<1.0	Pass	Testing Complete
LW00490	In hallway left of main office	Drinking Fountain	<1.0	Pass	Testing Complete
LW00492	In break room staff lounge across from cafeteria	Teachers Lounge Sink	<1.0	Pass	Testing Complete
LW00493	In kitchen by cafeteria	Kitchen Sink	3.5	Pass	Testing Complete
LW00494	In kindergarten K 2	Classroom Combination Drinking Fountain	34.9	Fail	Remediation Action Plan
LW02448	In classroom CR-7	Classroom Combination Drinking Fountain	4.2	Pass	Testing Complete
LW02452	In hallway next to gym	Drinking Fountain	<1.0	Pass	Testing Complete
LW06664	In classroom 21	Classroom Combination Drinking Fountain	2.8	Pass	Testing Complete
LW06677	In hallway across from room 2 special ed	Drinking Fountain	1.2	Pass	Testing Complete
LW06684	In hallway 8	Drinking Fountain	1.5	Pass	Testing Complete
LW06690	In classroom 10	Classroom Combination Drinking Fountain	29.3	Fail	Remediation Action Plan
M01533	In kitchen by cafeteria	Kitchen Sink	6.3	Fail	Remediation Action Plan
M05004	In hallway across from room 21	Drinking Fountain	1.8	Pass	Testing Complete
M27534	In classroom 65	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initials Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
M27536	In classroom 63	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27538	In classroom 66	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27541	In kindergarten 61	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27543	In kindergarten 59	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27545	In speech therapy 70	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27550	In hallway outside of room 59	Drinking Fountain	<1.0	Pass	Testing Complete
M27551	In hallway outside of room 59	Drinking Fountain	<1.0	Pass	Testing Complete
M27553	In kindergarten 56	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27556	In kindergarten 54	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27564	In kindergarten 47	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27567	In kindergarten 45	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27569	In special ed 32	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27571	In special ed 30	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27573	In classroom 33	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27576	In classroom 35	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27578	In classroom 29	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27580	In classroom 27	Classroom Combination Sink	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initials Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
M27585	In hallway across from BRs Downstairs	Drinking Fountain	<1.0	Pass	Testing Complete
M27586	In hallway across from BRs Downstairs	Drinking Fountain	<1.0	Pass	Testing Complete
M27588	In classroom 25	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M27590	In classroom 23	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW00453	Room 16	Classroom Combination Drinking Fountain	6.8	Fail	Remediation Action Plan
LW02446	K1	Classroom Combination Drinking Fountain	3.4	Pass	Testing Complete
LW05584	Hall Left of Office	Drinking Fountain	<1.0	Pass	Testing Complete
LW05585	Hall by gym BF	Drinking Fountain	<1.0	Pass	Testing Complete
Lw06666	Cr 20	Classroom Combination Drinking Fountain	9.2	Fail	Remediation Action Plan
LW06673	Cr 17	Classroom Combination Drinking Fountain	6.1	Fail	Remediation Action Plan
LW06676	Cr 20	Classroom Combination Drinking Fountain	4.1	Pass	Testing Complete
LW06678	Cr 2	Classroom Combination Drinking Fountain	3.8	Pass	Testing Complete
LW06682	CR 8	Classroom Combination Drinking Fountain	3.9	Pass	Testing Complete
LW12683	CR 9	Classroom Combination Drinking Fountain	14.5	Fail	Remediation Action Plan
LW12684	CR 11	Classroom Combination Drinking Fountain	10.9	Fail	Remediation Action Plan
LW12685	CR 12	Classroom Combination Drinking Fountain	10.8	Fail	Remediation Action Plan
LW12686	CR 5	Classroom Combination Drinking Fountain	2.5	Pass	Testing Complete
LW12688	Health room in 101B	Nurses Office Sink	27.1	Fail	Remediation Action Plan

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initials Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW12689	Health room 101D	Nurses Office Sink	1.6	Pass	Testing Complete
M01534	Kitchen	Kitchen Sink	<1.0	Pass	Testing Complete
LW12675	HW next to gym	Drinking Fountain	<1.0	Pass	Testing Complete
LW06662	CR-22	Classroom Combination Drinking Fountain	5.2	Fail	Remediation Action Plan

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Watkins Mill Elementary School  
19001 Watkins Mill Road  
Montgomery Village, MD 20886**

**Report Date: March 30<sup>th</sup>, 2020**

## LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/28/2020
# of Outlets Tested	73
# of Outlets $\geq$ 5 ppb	4

## 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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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](mailto: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](http://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 Watkins Mill ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00452	In work room 16	Classroom Combination Sink	3.8	Pass	N/A	Testing complete
LW00455	In Preschool 15	Classroom Combination Sink	7.4	Fail	NC	Remediation Action Plan
LW00484	In classroom 14	Classroom Combination Drinking Fountain	22.1	Fail	NC	Remediation Action Plan
LW00485	In classroom 14	Classroom Combination Sink	2.7	Pass	N/A	Testing complete
LW00487	In ESOL 13	Classroom Combination Drinking Fountain	7.3	Fail	NC	Remediation Action Plan
LW00488	In health room by administration	Nurses Office Sink	<1	Pass	N/A	Testing complete
LW00489	In work room by administration	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
LW00490	In hallway left of main office	Drinking Fountain	1.1	Pass	N/A	Testing complete
LW00491	In work room R Sblc across from conference room 3	Classroom Combination Sink	1.8	Pass	N/A	Testing complete
LW00492	In break room staff lounge across from cafeteria	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
LW00493	In kitchen by cafeteria	Kitchen Sink	1.3	Pass	N/A	Testing complete
LW00494	In kindergarten K 2	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing complete
LW02445	In kindergarten K 2	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW02447	In kindergarten K 1	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW02448	In classroom CR-7	Classroom Combination Drinking Fountain	11.9	Fail	NC	Remediation Action Plan
LW02449	In classroom CR-7	Classroom Combination Sink	1.2	Pass	N/A	Testing complete
LW02452	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing complete
LW03970	In classroom 12	Classroom Combination Drinking Fountain	3.6	Pass	N/A	Testing complete
LW06663	In classroom 21	Classroom Combination Sink	2.4	Pass	N/A	Testing complete
LW06664	In classroom 21	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing complete
LW06669	In classroom 18	Classroom Combination Sink	1.4	Pass	N/A	Testing complete
LW06674	In work room by media center	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06675	In special ed 3	Classroom Combination Sink	2.0	Pass	N/A	Testing complete
LW06677	In hallway across from room 2 special ed	Drinking Fountain	<1	Pass	N/A	Testing complete
LW06680	In special ed 1	Classroom Combination Sink	1.8	Pass	N/A	Testing complete
LW06681	In special ed 1	Classroom Combination Drinking Fountain	3.8	Pass	N/A	Testing complete
LW06683	In classroom 8	Classroom Combination Sink	2.0	Pass	N/A	Testing complete

LW06684	In hallway 8 across from room Umber 8	Drinking Fountain	<1	Pass	N/A	Testing complete
LW06689	In classroom 10	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06690	In classroom 10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06691	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M01533	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing complete
M05004	In hallway across from room 21	Drinking Fountain	1.1	Pass	N/A	Testing complete
M27533	In classroom 65	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27534	In classroom 65	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27535	In classroom 63	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27536	In classroom 63	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27537	In classroom 66	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27538	In classroom 66	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27540	In kindergarten 61	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27541	In kindergarten 61	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27542	In kindergarten 59	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27543	In kindergarten 59	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27544	In speech therapy 70	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27545	In speech therapy 70	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27550	In hallway outside of room 59	Drinking Fountain	<1	Pass	N/A	Testing complete
M27551	In hallway outside of room 59	Drinking Fountain	<1	Pass	N/A	Testing complete
M27552	In kindergarten 56	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27553	In kindergarten 56	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27555	In kindergarten 54	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27556	In kindergarten 54	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27563	In kindergarten 47	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27564	In kindergarten 47	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27566	In kindergarten 45	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27567	In kindergarten 45	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27568	In special ed 32 Grade 4- Sblc	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27569	In special ed 32 Grade 4-sblc	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27570	In special ed 30 Grade 5	Classroom Combination Sink	<1	Pass	N/A	Testing complete

M27571	In special ed 30 Grade 5- Sblc	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27572	In classroom 33	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27573	In classroom 33	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27575	In classroom 35	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27576	In classroom 35	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27577	In classroom 29	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27578	In classroom 29	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27579	In classroom 27	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27580	In classroom 27	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27585	In hallway across from BRs Downstairs	Drinking Fountain	<1	Pass	N/A	Testing complete
M27586	In hallway across from BRs Downstairs	Drinking Fountain	<1	Pass	N/A	Testing complete
M27587	In classroom 25	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27588	In classroom 25	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M27589	In classroom 23	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M27590	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



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

August 30, 2019

### Executive Summary:

#### Watkins Mill Elementary School

19001 Watkins Mill Rd.

Montgomery Village, Maryland 20886

Round of Testing:	Post-Remediation Follow-up
Sample Date	1/31/19
# of Outlets Tested:	5
# of Outlets $\geq 5$ ppb:	0
Low Value (ppb):	2.0
High Value (ppb):	4.9

### Project Status

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

Work Room 16 - Outlet (LW00452) will be placed back into service

ESOL 13 - Outlet (LW00487) will be placed back into service

Special Ed 1 - Outlet (LW06680) will be placed back into service

Classroom 10 - Outlet (LW06689) will be placed back into service

Classroom 12 - Outlet (LW03970) 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: Watkins Mill Elementary School**

19001 Watkins Mill Rd.  
Montgomery Village, Maryland 20886

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 Watkins Mill Elementary School, located at 19001 Watkins Mill Rd. in Montgomery Village, Maryland 20886.

**SCOPE OF SERVICES**

Five drinking water outlets were remediated at Watkins Mill 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 1/31/19 to collect post-remediation follow-up samples from 5 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
LW00452	16	Work Room		Faucet	55.7	1.3	3.2	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
LW00487	13	ESOL		Bubbler - Indoor	20.2	<1.0	4.9	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
LW06680	1	Special Ed		Faucet	107	1.1	2.7	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
LW06689	10	Classroom		Faucet	95.4	<1.0	2.5	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
LW03970*	12	Classroom		Faucet	46.6	7.3	2.0	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
*Fixture was assigned barcode LW03970 as previous barcode LW06691 could not be located at the time of sampling									

## 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.



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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

April 24, 2018

**Executive Summary:**  
**Watkins Mill Elementary School**  
19001 Watkins Mill Road  
Montgomery Village, MD 20886

Round of Testing:	Initial
# of Outlets Tested:	97
# of Outlets $\geq$ 20 ppb:	5
Low Value (ppb):	< 1.0
High Value (ppb):	107
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Classroom 13 (20.2 ppb) Classroom 12 (46.6 ppb) Work Room 16 (55.7 ppb) Classroom 10 (95.4 ppb) Classroom 1 (107 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	5

### **Project Status** **Testing Complete: Remediation Plan**

Classroom 13 – Replace fixture (LW00487), in addition to supply line and valve located under sink  
Classroom 12 – Replace fixture (LW06691), in addition to supply line and valve located under sink  
Work Room 16 – Replace fixture (LW00452), in addition to supply line and valve located under sink  
Classroom 10 – Replace fixture (LW06689), in addition to supply line and valve located under sink  
Classroom 1 – Replace fixture (LW06680), in addition to supply line and valve located under sink



April 24, 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: Watkins Mill Elementary School  
19001 Watkins Mill Road  
Montgomery Village, MD 20886

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 Watkins Mill Elementary School, located at 8720 Carroll Avenue in Silver Spring, MD 20903.

**Scope of Services:**

PSI conducted lead in water testing at Watkins Mill 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 02/22/18, 02/23/18, 02/28/18, and 03/01/18 to collect samples from 97 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. Five 30 second follow-up samples were collected on 4/12/18.

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)
LW00452	Work Room	2/23/2018	55.7	4/12/18	1.3
LW00487	Classroom	2/23/2018	20.2	4/12/18	Non Detect
LW06680	Classroom	2/23/2018	107.0	4/12/18	1.1
LW06689	Classroom	2/23/2018	95.4	4/12/18	Non Detect
LW06691	Classroom	2/23/2018	46.6	4/12/18	7.3

The initial lead in water sample results (02/23/18 and 3/1/18) and 30 second follow up results (4/12/18) 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.**

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Attachments: A – Lead in Water Test Summary Table

# ATTACHMENT A

## Watkins Mill ES Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Initial Sample Results for Watkins Mill Elementary School (2/23/18 and 3/1/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW00452	16	Work Room		Faucet	55.7	Fail	Follow-Up Testing Needed
LW00453	16	Work Room		Bubbler - Indoor	15.7	Pass	Testing Complete
LW00454	15	Preschool		Bubbler - Indoor	4.4	Pass	Testing Complete
LW00455	15	Preschool		Faucet	3.0	Pass	Testing Complete
LW00484	14	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW00485	14	Classroom		Faucet	3.5	Pass	Testing Complete
LW00486	13	ESOL		Faucet	9.9	Pass	Testing Complete
LW00487	13	ESOL		Bubbler - Indoor	20.2	Fail	Follow-Up Testing Needed
LW00488		Health Room		Faucet	1.1	Pass	Testing Complete
LW00489		Work Room		Faucet	3.4	Pass	Testing Complete
LW00490		Hallway	Left Of Main Office	Cooler	1.0	Pass	Testing Complete
LW00491	R	Work Room	SBLC Across From Conference Room 3	Faucet	3.6	Pass	Testing Complete
LW00492		Break Room	Staff Lounge Across From Cafeteria	Faucet	1.9	Pass	Testing Complete
LW00493		Kitchen Cafeteria		Faucet	2.7	Pass	Testing Complete
LW00494	K 2	Kindergarten		Bubbler - Indoor	2.1	Pass	Testing Complete
LW02445	K 2	Kindergarten		Faucet	2.4	Pass	Testing Complete
LW02446	K 1	Kindergarten		Bubbler - Indoor	5.1	Pass	Testing Complete
LW02447	K 1	Kindergarten		Faucet	1.8	Pass	Testing Complete
LW02449	CR-7	Classroom		Faucet	3.1	Pass	Testing Complete
LW02452		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW02453	4	Work Room		Faucet	6.3	Pass	Testing Complete
LW02454	4	Work Room		Bubbler - Indoor	4.0	Pass	Testing Complete
LW02455	5	Classroom		Bubbler - Indoor	7.1	Pass	Testing Complete
LW02456	5	Classroom		Faucet	5.2	Pass	Testing Complete
LW02458	CR-6	Work Room		Faucet	8.7	Pass	Testing Complete
LW02459	CR-6	Work Room		Bubbler - Indoor	8.7	Pass	Testing Complete
LW06661	22	Music		Faucet	7.6	Pass	Testing Complete
LW06662	22	Music		Bubbler - Indoor	10.7	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW06663	21	Classroom		Faucet	2.3	Pass	Testing Complete
LW06664	21	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW06665	20	Classroom		Faucet	6.3	Pass	Testing Complete
LW06666	20	Classroom		Bubbler - Indoor	8.1	Pass	Testing Complete
LW06669	18	Classroom		Faucet	1.9	Pass	Testing Complete
LW06670	18	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW06671	17	Classroom		Faucet	17.2	Pass	Testing Complete
LW06673	17	Classroom		Bubbler - Indoor	5.9	Pass	Testing Complete
LW06674		Work Room Media Center		Faucet	3.8	Pass	Testing Complete
LW06675	3	Special Ed		Faucet	3.2	Pass	Testing Complete
LW06676	3	Special Ed		Bubbler - Indoor	5.9	Pass	Testing Complete
LW06677		Hallway	Across From Room 2 Special Ed	Cooler	<1.0	Pass	Testing Complete
LW06678	2	Special Ed		Bubbler - Indoor	5.2	Pass	Testing Complete
LW06679	2	Special Ed		Faucet	5.3	Pass	Testing Complete
LW06680	1	Special Ed		Faucet	107	Fail	Follow-Up Testing Needed
LW06682	8	Classroom		Bubbler - Indoor	9.2	Pass	Testing Complete
LW06683	8	Classroom		Faucet	4.1	Pass	Testing Complete
LW06684	8	Hallway	Across From Room 8	Cooler	<1.0	Pass	Testing Complete
LW06685	11	Classroom		Faucet	11.6	Pass	Testing Complete
LW06686	11	Classroom		Bubbler - Indoor	16.7	Pass	Testing Complete
LW06687	9	Classroom		Bubbler - Indoor	17.2	Pass	Testing Complete
LW06688	9	Classroom		Faucet	13.1	Pass	Testing Complete
LW06689	10	Classroom		Faucet	95.4	Fail	Follow-Up Testing Needed
LW06691	12	Classroom		Bubbler - Indoor	46.6	Fail	Follow-Up Testing Needed
LW06692	12	Classroom		Faucet	10.5	Pass	Testing Complete
M01533		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M01534		Kitchen Cafeteria		Faucet	5.2	Pass	Testing Complete
M05004		Hallway	Across From Room 21	Cooler	2.7	Pass	Testing Complete
M27533	65	Classroom		Faucet	<1.0	Pass	Testing Complete
M27534	65	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27535	63	Classroom		Faucet	<1.0	Pass	Testing Complete
M27536	63	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27537	66	Classroom		Faucet	1.0	Pass	Testing Complete
M27538	66	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27540	61	Kindergarten		Faucet	1.0	Pass	Testing Complete
M27541	61	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M27542	59	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M27543	59	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27544	70	Speech Therapy		Faucet	1.2	Pass	Testing Complete
M27545	70	Speech Therapy		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27550		Hallway	Outside Of Room 59	Cooler	<1.0	Pass	Testing Complete
M27551		Hallway	Outside Of Room 59	Cooler	<1.0	Pass	Testing Complete
M27552	56	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M27553	56	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27555	54	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M27556	54	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27563	47	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M27564	47	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27566	45	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M27567	45	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27568	32	Special Ed	Grade 4 - SBLC	Faucet	<1.0	Pass	Testing Complete
M27569	32	Special Ed	Grade 4 - SBLC	Bubbler - Indoor	<1.0	Pass	Testing Complete
M27570	30	Special Ed	Grade 5	Faucet	<1.0	Pass	Testing Complete
M27571	30	Special Ed	Grade 5 - SBLC	Bubbler - Indoor	<1.0	Pass	Testing Complete
M27572	33	Classroom		Faucet	<1.0	Pass	Testing Complete
M27573	33	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27575	35	Classroom		Faucet	<1.0	Pass	Testing Complete
M27576	35	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27577	29	Classroom		Faucet	<1.0	Pass	Testing Complete
M27578	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27579	27	Classroom		Faucet	<1.0	Pass	Testing Complete
M27580	27	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27585		Hallway	Across from BRs Downstairs	Cooler	<1.0	Pass	Testing Complete
M27586		Hallway	Across from BRs Downstairs	Cooler	<1.0	Pass	Testing Complete
M27587	25	Classroom		Faucet	<1.0	Pass	Testing Complete
M27588	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27589	23	Classroom		Faucet	<1.0	Pass	Testing Complete
M27590	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*ppb = parts per billion

**Contractor:** Professional Services Industries, Inc.  
**Certified Laboratory:** Microbac Laboratories, Inc.

Follow Up Sample Results for Watkins Mill Elementary School (4/12/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	Initial draw (3 <sup>rd</sup> ) (PPB)	30 Second Draw (PPB)	Status
LW00452	16	Work Room	Faucet	13.3	19.4	1.3	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW00487	13	Classroom	Bubbler	DNS	13.9	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW06680	1	Classroom	Faucet	DNS	9.3	1.1	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW06689	10	Classroom	Faucet	16.4	13.7	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW06691	12	Classroom	Bubbler	126.0	21.0	7.3	Remediation required – replace fixture, in addition to supply line and valve located under sink

\*ppb = parts per billion  
 ND = Non Detect  
 DNS = Did Not Sample

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.