

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Cloverly Elementary School  
800 Briggs Chaney Road  
Silver Spring, MD 20905**

**Report Date: February 23<sup>rd</sup>, 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	11/03/2021
# of Outlets Tested	38
# 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.

## **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 Cloverly ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03514	In break room 47	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05667	In classroom 1	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
LW05663	In classroom 10	Teacher's Lounge Sink	1.1	Pass	N/A	Testing Complete
M10421	In classroom 12	Teacher's Lounge Sink	3.4	Pass	N/A	Testing Complete
LW05681	In classroom 16	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW05682	In classroom 17	Teacher's Lounge Sink	2.0	Pass	N/A	Testing Complete
M10493	In classroom 18	Teacher's Lounge Sink	1.3	Pass	N/A	Testing Complete
M10495	In classroom 19	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
Lw05668	In classroom 2	Classroom Sink	5.0	Fail	1.9	Testing Complete
LW05683	In classroom 20	Teacher's Lounge Sink	1.6	Pass	N/A	Testing Complete
M10477	In classroom 22	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M10472	In classroom 23	Teacher's Lounge Sink	7.0	Fail	<1	Testing Complete
M10470	In classroom 24	Teacher's Lounge Sink	4.7	Pass	N/A	Testing Complete
M10468	In classroom 25	Teacher's Lounge Sink	20.9	Fail	<1	Testing Complete
LW05684	In classroom 26	Teacher's Lounge Sink	3.3	Pass	N/A	Testing Complete
LW05669	In classroom 3	Teacher's Lounge Sink	1.6	Pass	N/A	Testing Complete
LW05671	In classroom 4	Teacher's Lounge Sink	4.5	Pass	N/A	Testing Complete
LW05673	In classroom 5	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
LW05675	In classroom 6	Teacher's Lounge Sink	2.2	Pass	N/A	Testing Complete
LW05674	In classroom 7	Teacher's Lounge Sink	1.1	Pass	N/A	Testing Complete
LW05672	In classroom 8	Teacher's Lounge Sink	13.2	Fail	3.1	Testing Complete
LW05670	In classroom 9	Teacher's Lounge Sink	1.1	Pass	N/A	Testing Complete
LW05676	In classroom across from classroom 6	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05677	In ESOL 123	Teacher's Lounge Sink	3.4	Pass	N/A	Testing Complete
M10459	In hallway across from classroom 6	Drinking Fountain	2.4	Pass	N/A	Testing Complete
LW05665	In hallway next to classroom 1	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05666	In hallway next to classroom 1	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05678	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05679	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05658	In hallway outside of kitchen	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW05659	In hallway outside of kitchen	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05660	In health room	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M10501	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M10503	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M10505	In kitchen	Kitchen Sink	1.7	Pass	N/A	Testing Complete
M10415	In music	Teacher's Lounge Sink	2.0	Pass	N/A	Testing Complete
M10475	In office 27 by media center	Teacher's Lounge Sink	5.8	Fail	<1	Testing Complete
M10413	In office by admin	Teacher's Lounge Sink	2.8	Pass	N/A	Testing Complete



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

November 13, 2019

**Executive Summary:**  
**Cloverly Elementary School**  
800 Briggs Chaney Road,  
Silver Spring, MD 20905

Round of Testing:	Post-Remediation Follow-up
Sample Date	02/01/2019
# of Outlets Tested:	1
# of Outlets $\geq$ 5 ppb:	1
Low Value (ppb):	6.7
High Value (ppb):	6.7

**Project Status**

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

Classroom 11 – Outlet (LW05664) will have signage affixed.



November 13, 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: Cloverly Elementary School  
800 Briggs Chaney Road,  
Silver Spring, MD 20905

Dear Mr. Mullikin:

Intertek-PSI, Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of post-remediation lead in water testing at Cloverly Elementary School, located at 800 Briggs Chaney Road, Silver Spring, MD 20905.

**Scope of Services:**

One (1) drinking water outlet was remediated at Cloverly Elementary School due to initial 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 02/01/2019 to collect post-remediation follow-up samples from 1 of 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
LW05664	11	Classroom		Faucet	40.3	ND	6.7	Fail	Post-remediation follow-up testing complete. Outlet will have signage affixed

\*ppb = parts per billion

### **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.**

Nan Lin  
Department Manager, Environmental Services  
[Nan.Lin@intertek.com](mailto:Nan.Lin@intertek.com)





## Montgomery County Public Schools Lead in Drinking Water Testing 2018

April 27, 2018

### Executive Summary:

**Cloverly Elementary School**  
800 Briggs Chaney Road  
Briggs Chaney, Maryland 20905

Round of Testing:	Initial
# of Outlets Tested:	45
# of Outlets $\geq 20$ ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	40.3
Follow-Up Testing Required (Samples $\geq 20$ ppb):	Classroom 11 (40.3 ppb)

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

### Project Status:

**Testing Complete: Remediation Plan**

Classroom 11 - Replace fixture (LW05664), in addition to supply line and valve located under sink



April 27, 2018

Mr. Brian Mullikin, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634189

**Location: Cloverly Elementary School**

800 Briggs Chaney Road  
Briggs Chaney, Maryland 20905

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 Cloverly Elementary School, located at 800 Briggs Chaney Road in Briggs Chaney, Maryland 20905.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Cloverly 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 3/13/2018 and 3/14/2018 to collect samples from 45 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 4/12/2018, 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.

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## **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:

<b>Barcode ID</b>	<b>Sample Location</b>	<b>Date Collected</b>	<b>Initial Sample Result (ppb)</b>	<b>Date Collected</b>	<b>30 Second Follow Up Sample Result (ppb)</b>
LW05664	Faucet - Classroom 11	3/14/2018	40.3	4/12/2018	ND

The initial lead in water sample results (3/14/2018) and 30 second follow up results (4/12/2018) 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.

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Respectfully Submitted,  
KCI Technologies, Inc.



Kamau McAbee  
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

## ATTACHMENT A

### Lead in Water Test Summary Table

**Contractor:** KCI Technologies, Inc.

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

#### Initial Sample Results for Cloverly Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03514	47	Break Room		Faucet	<1.0	Pass	Testing Complete
LW05658		Hallway	Outside Of Kitchen	Cooler	<1.0	Pass	Testing Complete
LW05659		Hallway	Outside Of Kitchen	Cooler	<1.0	Pass	Testing Complete
LW05660		Health Room		Faucet	<1.0	Pass	Testing Complete
LW05663	10	Classroom		Faucet	1.2	Pass	Testing Complete
LW05664	11	Classroom		Faucet	40.3	Fail	Follow-Up Testing Needed
LW05665		Hallway	Next To Cr 1	Cooler	<1.0	Pass	Testing Complete
LW05666		Hallway	Next To Cr 1	Cooler	<1.0	Pass	Testing Complete
LW05667	1	Classroom Kindergarten		Faucet	1.7	Pass	Testing Complete
LW05668	2	Classroom Kindergarten		Faucet	5.6	Pass	Testing Complete
LW05669	3	Classroom Kindergarten		Faucet	2.0	Pass	Testing Complete
LW05670	9	Classroom		Faucet	1.4	Pass	Testing Complete
LW05671	4	Classroom		Faucet	1.7	Pass	Testing Complete
LW05672	8	Classroom		Faucet	3.7	Pass	Testing Complete
LW05673	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05674	7	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05675	6	Classroom		Faucet	1.0	Pass	Testing Complete
LW05676		Classroom	Across From Cr 6	Cooler	<1.0	Pass	Testing Complete
LW05677	123	ESOL		Faucet	3.5	Pass	Testing Complete
LW05678		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW05679		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW05680	15	Classroom		Faucet	19.8	Pass	Testing Complete
LW05681	16	Classroom		Faucet	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05682	17	Classroom		Faucet	2.6	Pass	Testing Complete
LW05683	20	Classroom		Faucet	2.3	Pass	Testing Complete
LW05684	26	Classroom		Faucet	3.5	Pass	Testing Complete
M10413		Office Admin	Asst. Princ	Faucet	1.3	Pass	Testing Complete
M10414		Office Admin	Asst. Principal	Bubbler - Indoor	6.8	Pass	Testing Complete
M10415		Music Music		Faucet	4.3	Pass	Testing Complete
M10421	12	Classroom		Faucet	2.2	Pass	Testing Complete
M10459		Hallway	Across From Cr 6	Cooler	<1.0	Pass	Testing Complete
M10468	25	Classroom		Faucet	2.6	Pass	Testing Complete
M10470	24	Classroom		Faucet	1.7	Pass	Testing Complete
M10472	23	Classroom		Faucet	4.4	Pass	Testing Complete
M10475	27	Office Media Center		Faucet	4.2	Pass	Testing Complete
M10477	22	Classroom		Faucet	1.0	Pass	Testing Complete
M10479	21	Classroom		Faucet	5.7	Pass	Testing Complete
M10493	18	Classroom		Faucet	1.4	Pass	Testing Complete
M10495	19	Classroom		Faucet	1.2	Pass	Testing Complete
M10501		Kitchen		Faucet	4.7	Pass	Testing Complete
M10503		Kitchen		Faucet	1.2	Pass	Testing Complete
M10504		Kitchen		Faucet	7.2	Pass	Testing Complete
M10505		Kitchen		Faucet	1.5	Pass	Testing Complete

\*PPB = parts per billion

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

Follow Up Sample Result for Cloverly Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW05664	11	Classroom	Faucet	2.20	1.50	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

\*PPB = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.