

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Sequoyah Elementary School  
17301 Bowie Mill Road  
Derwood, MD 20855

Report Date: February 18<sup>th</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	10/29/2021
# of Outlets Tested	66
# of Outlets $\geq$ 5 ppb	2

## 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 Sequoyah ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW01665	In classroom 13	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01666	In media center office	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete
LW01667	In classroom 14	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW01668	In classroom 14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01669	In hallway across from 14	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01670	In kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
LW01671	In kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
LW01672	In kitchen	Kitchen Sink	3.4	Pass	N/A	Testing Complete
LW01673	In hallway right of main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01674	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW01675	In hallway across from gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01676	In work room by administration	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01677	In health room by administration	Nurses Office Sink	2.6	Pass	N/A	Testing Complete
LW01678	In classroom 18	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01681	In classroom 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01682	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01683	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01684	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01686	In classroom 1	Kitchen Sink	1.2	Pass	N/A	Testing Complete
LW01687	In classroom 2	Classroom Combination Sink	3.5	Pass	N/A	Testing Complete
LW01688	In classroom 2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01689	In classroom 7	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
LW01690	In classroom 7	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01691	In classroom 8	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW01692	In classroom 8	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW01693	In classroom 3	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
LW01694	In classroom 3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01695	In classroom 4	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
LW01696	In classroom 4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01743	In classroom 27	Classroom Combination Sink	2.7	Pass	N/A	Testing Complete

LW01744	In classroom 27	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01745	In classroom 22	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
LW01746	In classroom 22	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01748	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01749	In classroom 26	Classroom Combination Sink	3.3	Pass	N/A	Testing Complete
LW01750	In classroom 26	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01751	In classroom 20	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01752	In classroom 20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01753	In hallway next to elevator	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01754	In hallway across from 10	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01755	In classroom 10	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
LW02282	In ESOL 16	Classroom Sink	3.9	Pass	N/A	Testing Complete
LW02283	In classroom 10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02284	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02285	In classroom 11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02287	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02288	In classroom 13	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW07355	In hallway right of 25	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07356	In classroom 25	Classroom Combination Sink	4.4	Pass	N/A	Testing Complete
LW07357	In classroom 25	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07358	In classroom 30	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW07359	In classroom 30	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07361	In classroom 29	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35755	In classroom 24	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
M35767	In classroom 21	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35768	In classroom 21	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35836	In office in between gym and SMBR	Classroom Sink	<1	Pass	N/A	Testing Complete
M40364	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M40368	In music room	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
M40369	In Music room	Classroom Combination Sink	11.4	Fail	<1	Testing Complete
M40370	In music room	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M40377	In Resources	Classroom Sink	36.0	Fail	<1	Testing Complete
M40381	In classroom 18	Classroom Combination Sink	4.6	Pass	N/A	Testing Complete

M40386	In classroom 17	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
M40395	In classroom 15	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M46473	In classroom 15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete



**MONTGOMERY COUNTY PUBLIC SCHOOLS  
LEAD IN DRINKING WATER TESTING 2018**

**Executive Summary:**  
**Sequoyah Elementary School**  
17301 Bowie Mill Road  
Derwood, MD 20855

Date of Test Report:	04/13/2018
Round of Testing:	Initial
# of Outlets Tested:	74
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	15.2

**Project Status**

**Initial testing complete:** All results less than 20 ppb.



April 13, 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: Sequoyah Elementary School  
17301 Bowie Mill Road  
Derwood, MD 20855

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 Sequoyah Elementary School, located at 17301 Bowie Mill Road, Derwood, MD 20855.

**Scope of Services:**

PSI conducted lead in water testing at Sequoyah 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 03/19/18 and 03/20/18 to collect samples from 55 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water—Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

**Results:**

There were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 03/20/18 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.  
Department Manager, Environmental Services  
[Nand.Kaushik@psiusa.com](mailto:Nand.Kaushik@psiusa.com)

Attachments:           A – Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

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

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

### Sample Results for Sequoyah Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01665	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01666		Media Center Office		Faucet	2.0	Pass	Testing Complete
LW01667	14	Classroom		Faucet	4.5	Pass	Testing Complete
LW01668	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01669		Hallway	Across From Room 14	Cooler	<1.0	Pass	Testing Complete
LW01670		Kitchen		Faucet	2.0	Pass	Testing Complete
LW01671		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01672		Kitchen		Faucet	3.3	Pass	Testing Complete
LW01674		Break Room		Faucet	<1.0	Pass	Testing Complete
LW01675		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW01676		Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW01677		Health Room Administration		Faucet	2.4	Pass	Testing Complete
LW01678	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01679		Music		Faucet	5.7	Pass	Testing Complete
LW01680	5	Classroom		Faucet	8.5	Pass	Testing Complete
LW01681	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01682	6	Classroom		Faucet	7.5	Pass	Testing Complete
LW01683	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01684		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW01685	1	Classroom		Faucet	5.4	Pass	Testing Complete
LW01686	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01689	7	Classroom		Faucet	3.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01690	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01691	8	Classroom		Faucet	1.8	Pass	Testing Complete
LW01692	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01693	3	Classroom		Faucet	4.0	Pass	Testing Complete
LW01694	3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01695	4	Classroom		Faucet	2.1	Pass	Testing Complete
LW01696	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01743	27	Classroom		Faucet	4.0	Pass	Testing Complete
LW01744	27	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01745	22	Classroom		Faucet	3.6	Pass	Testing Complete
LW01746	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01747	23	Classroom		Faucet	11.9	Pass	Testing Complete
LW01748	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01749	26	Classroom		Faucet	3.5	Pass	Testing Complete
LW01750	26	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01751	20	Classroom		Faucet	4.0	Pass	Testing Complete
LW01752	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01753		Hallway	Next To Elevator	Cooler	<1.0	Pass	Testing Complete
LW01754		Hallway	Across From Room 10	Cooler	<1.0	Pass	Testing Complete
LW01755	10	Classroom		Faucet	3.9	Pass	Testing Complete
LW02282	16	ESOL		Faucet	3.4	Pass	Testing Complete
LW02283	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02284	11	Classroom		Faucet	1.5	Pass	Testing Complete
LW02285	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02286	12	Classroom		Faucet	8.6	Pass	Testing Complete
LW02287	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02288	13	Classroom		Faucet	1.8	Pass	Testing Complete
LW07355		Hallway	Right Of Room 25	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07356	25	Classroom		Faucet	4.5	Pass	Testing Complete
LW07357	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07358	30	Classroom		Faucet	3.3	Pass	Testing Complete
LW07359	30	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW07360	29	Classroom		Faucet	5.2	Pass	Testing Complete
LW07361	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07362	28	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35755	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35756	24	Classroom		Faucet	5.6	Pass	Testing Complete
M35758	28	Classroom		Faucet	10.1	Pass	Testing Complete
M35767	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35768	21	Classroom		Faucet	3.9	Pass	Testing Complete
M35836		Office	Rm in Between Gym and SMBR	Faucet	<1.0	Pass	Testing Complete
M40364		Kitchen		Faucet	3.7	Pass	Testing Complete
M40368		Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M40369		Inst Music		Faucet	15.2	Pass	Testing Complete
M40370		Inst Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M40377		Resource Rm		Faucet	8.8	Pass	Testing Complete
M40378		Resource Rm		Bubbler - Indoor	5.7	Pass	Testing Complete
M40381	18	Classroom		Faucet	4.8	Pass	Testing Complete
M40385	17	Classroom		Faucet	5.4	Pass	Testing Complete
M40386	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M40395	15	Classroom		Faucet	1.4	Pass	Testing Complete
M46473	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*ppb = parts per billion