

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Candlewood Elementary School  
7210 Osprey Drive  
Rockville, MD 20855

Report Date: December 30, 2021

## 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	10/28/2021
# of Outlets Tested	71
# of Outlets $\geq$ 5 ppb	0

## 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 Candlewood Elementary School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
M32659	Classroom 200	Classroom Sink	<1	Pass	N/A	Testing Complete
M32745	In break room 121	Classroom Sink	<1	Pass	N/A	Testing Complete
M32751	In classroom 114	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32752	In classroom 114	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32746	In classroom 118	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32747	In classroom 118	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M32742	In classroom 122	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32743	In classroom 122	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32736	In classroom 124	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32737	In classroom 124	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32739	In classroom 125	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32733	In classroom 128	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32734	In classroom 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32728	In classroom 130	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32729	In classroom 130	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32716	In classroom 132	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32717	In classroom 132	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32711	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32712	In classroom 133	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32714	In classroom 136	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32715	In classroom 136	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32708	In classroom 138	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32709	In classroom 138	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32706	In classroom 142	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32707	In classroom 142	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32705	In classroom 146	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32704	In classroom 146	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M32683	In classroom 157	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
M32684	In classroom 157	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
M32631	In classroom 212	Classroom Combination Sink	4.5	Pass	N/A	Testing Complete

M32628	In classroom 216	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32629	In classroom 216	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
M32627	In classroom 218	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32626	In classroom 218	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32647	In classroom 219	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32646	In classroom 219	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32644	In classroom 221	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32645	In classroom 221	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32624	In classroom 222	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32625	In classroom 222	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
M32643	In classroom 225	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32642	In classroom 225	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32612	In classroom 228	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M32668	In classroom 239	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32669	In classroom 239	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32666	In classroom 243	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32667	In classroom 243	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32664	In classroom 245	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32665	In classroom 245	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32662	In classroom 249	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32663	In classroom 249	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32660	In classroom 253	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32661	In classroom 253	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32694	In hallway next to CR 146	Drinking Fountain	<1	Pass	N/A	Testing Complete
M32695	In hallway next to CR 146	Drinking Fountain	<1	Pass	N/A	Testing Complete
M32769	In health room 102 in office	Nurses Office Sink	4.1	Pass	N/A	Testing Complete
M32768	In health room 102 in office	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M32680	In Inst music 165	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M32681	In Inst music 165	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M32672	In kitchen	Kitchen Sink	1.1	Pass	N/A	Testing Complete
M32673	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M32674	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M32675	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M32767	In material prep 101A in media center	Classroom Sink	<1	Pass	N/A	Testing Complete

M32682	In music 161	Classroom Sink	<1	Pass	N/A	Testing Complete
M32688	In office 152	Classroom Sink	<1	Pass	N/A	Testing Complete
M32692	In special ed 145	Classroom Sink	<1	Pass	N/A	Testing Complete
M32693	In speech therapy 150	Classroom Sink	<1	Pass	N/A	Testing Complete
M32710	In support room 137	Classroom Sink	<1	Pass	N/A	Testing Complete
M32656	In support room 204	Classroom Sink	<1	Pass	N/A	Testing Complete
M32773	In work room 104	Classroom Sink	<1	Pass	N/A	Testing Complete



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

**Executive Summary:**  
**Candlewood Elementary School**  
7210 Osprey Drive  
Rockville, MD 20855

Date of Test Report:	04/03/2018
Round of Testing:	Initial
# of Outlets Tested:	85
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	7.2

### **Project Status**

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



April 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: Candlewood Elementary School  
7210 Osprey Drive  
Rockville, 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 Candlewood Elementary School, located at 7210 Osprey Drive, Rockville, MD 20855.

**Scope of Services:**

PSI conducted lead in water testing at Candlewood 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 03/15/18 and 03/16/18 to collect samples from 85 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 03/16/18 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 Candlewood Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M04587		Hallway	Outside of APR 168	Cooler	<1.0	Pass	Testing Complete
M04588		Hallway	Outside of APR 168	Cooler	<1.0	Pass	Testing Complete
M32612	228	Support Room		Faucet	<1.0	Pass	Testing Complete
M32622		Hallway	Across from Rm 222	Cooler	<1.0	Pass	Testing Complete
M32623		Hallway	Across from Rm 222	Cooler	<1.0	Pass	Testing Complete
M32624	222	Classroom		Faucet	<1.0	Pass	Testing Complete
M32625	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32626	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32627	218	Classroom		Faucet	<1.0	Pass	Testing Complete
M32628	216	Classroom		Faucet	<1.0	Pass	Testing Complete
M32630	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32631	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M32632		Hallway	Across from Rm 212	Cooler	<1.0	Pass	Testing Complete
M32633		Hallway	Across from Rm 212	Cooler	<1.0	Pass	Testing Complete
M32642	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32643	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M32644	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M32645	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32646	219	Classroom		Faucet	<1.0	Pass	Testing Complete
M32647	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32656	204	Support Room		Faucet	1.1	Pass	Testing Complete
M32657		Hallway	Next to Rm 200	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M32658		Hallway	Next to Rm 200	Cooler	<1.0	Pass	Testing Complete
M32659	200	Support Room		Faucet	1.0	Pass	Testing Complete
M32660	253	Classroom		Faucet	1.1	Pass	Testing Complete
M32661	253	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32662	249	Classroom		Faucet	<1.0	Pass	Testing Complete
M32663	249	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32664	245	Classroom		Faucet	<1.0	Pass	Testing Complete
M32665	245	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32666	243	Classroom		Faucet	<1.0	Pass	Testing Complete
M32667	243	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32668	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32669	239	Classroom		Faucet	<1.0	Pass	Testing Complete
M32672	168I	Kitchen		Faucet	3.0	Pass	Testing Complete
M32673		Kitchen		Faucet	<1.0	Pass	Testing Complete
M32674	168I	Kitchen		Faucet	<1.0	Pass	Testing Complete
M32675	168I	Kitchen		Faucet	<1.0	Pass	Testing Complete
M32680	165	Instrumental Music		Faucet	2.5	Pass	Testing Complete
M32681	165	Instrumental Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32682	161	Music		Faucet	<1.0	Pass	Testing Complete
M32683	157	Dual Purpose Room		Faucet	1.3	Pass	Testing Complete
M32684	157	Dual Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32688	152	Office		Faucet	<1.0	Pass	Testing Complete
M32692	145	Special Ed		Faucet	<1.0	Pass	Testing Complete
M32693	150	Speech Therapy		Faucet	1.1	Pass	Testing Complete
M32694		Hallway	Next to Rm 146	Cooler	<1.0	Pass	Testing Complete
M32695		Hallway	Next to Rm 146	Cooler	<1.0	Pass	Testing Complete
M32704	146	Classroom		Faucet	7.2	Pass	Testing Complete
M32705	146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M32706	142	Classroom		Faucet	<1.0	Pass	Testing Complete
M32707	142	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32708	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32709	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M32710	137	Support Room		Faucet	1.3	Pass	Testing Complete
M32711	133	Classroom		Faucet	<1.0	Pass	Testing Complete
M32712	133	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32714	136	Classroom		Faucet	<1.0	Pass	Testing Complete
M32715	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32716	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32717	132	Classroom		Faucet	<1.0	Pass	Testing Complete
M32718		Hallway	Next to Rm 132	Cooler	<1.0	Pass	Testing Complete
M32719		Hallway	Next to Rm 132	Cooler	<1.0	Pass	Testing Complete
M32728	130	Support Room		Faucet	1.0	Pass	Testing Complete
M32729	130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32733	128	Classroom		Faucet	<1.0	Pass	Testing Complete
M32734	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32736	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32737	124	Classroom		Faucet	<1.0	Pass	Testing Complete
M32739	125	Classroom		Faucet	<1.0	Pass	Testing Complete
M32740	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32742	122	Classroom		Faucet	<1.0	Pass	Testing Complete
M32743	122	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32745	121	Break Room		Faucet	<1.0	Pass	Testing Complete
M32746	118	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32747	118	Classroom		Faucet	<1.0	Pass	Testing Complete
M32751	114	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M32752	114	Classroom		Faucet	2.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M32760		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
M32761		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
M32767	101A	Material Prep Media Center	Inside Media Center	Faucet	1.1	Pass	Testing Complete
M32768	102	Health Room Health		Faucet	<1.0	Pass	Testing Complete
M32773	104	Work Room		Faucet	<1.0	Pass	Testing Complete
M32774		Hallway	Next to Elevator in the Main Entrance	Cooler	<1.0	Pass	Testing Complete
M32775		Hallway	Next to Elevator in the Main Entrance	Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion