

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Oakland Terrace Elementary School  
2720 Plyers Mill Rd  
Silver Spring, MD 20902

Report Date: March 24<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	2/13/2020
# of Outlets Tested	76
# of Outlets $\geq$ 5 ppb	1

## 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 Oakland Terrace ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00451	In art 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06505	In classroom 2	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06506	In classroom 5	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06507	In classroom 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06508	In classroom 7	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06509	In classroom 7	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06510	In classroom 13	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06511	In classroom 13	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06512	In classroom 12	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06513	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06514	In art 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06515	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06516	In classroom 11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06517	In hallway across from CR 12	Drinking Fountain	<1	Pass	N/A	Testing complete
LW06518	In classroom 4	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06519	In classroom 4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06520	In hallway left of CR 5	Drinking Fountain	<1	Pass	N/A	Testing complete
LW06521	In classroom 6	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06522	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete

LW06523	In classroom 8	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06524	In classroom 8	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06525	In classroom 10	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06526	In classroom 10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06527	In classroom 17	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06528	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06529	In classroom 100	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06530	In classroom 100	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06531	In classroom 15	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06532	In classroom 15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06533	In classroom 14	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06534	In classroom 14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06535	In classroom 16	Classroom Combination Sink	1.3	Pass	N/A	Testing complete
LW06536	In classroom 16	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing complete
LW06537	In classroom 106	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06538	In classroom 106	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06539	In classroom 109	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06540	In classroom 109	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06541	In music 111	Classroom Sink	2.3	Pass	N/A	Testing complete
LW06542	In classroom 31	Classroom Sink	1.8	Pass	N/A	Testing complete
LW06543	In music 34	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06544	In classroom 101	Classroom Combination Sink	1.5	Pass	N/A	Testing complete

LW06546	In dual purpose room 110	Classroom Sink	2.0	Pass	N/A	Testing complete
LW06547	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing complete
LW06548	In classroom 20	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06549	In classroom 20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06550	In classroom 23	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06551	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06552	In classroom 27	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06554	In classroom 2	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06555	In classroom 29	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06556	In classroom 30	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06557	In classroom 19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06558	In classroom 18	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06559	In classroom 18	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06560	In classroom 21	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06561	In classroom 21	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06562	In media center	Classroom Sink	4.4	Pass	N/A	Testing complete
LW06563	In classroom 26	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06564	In classroom 26	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06565	In classroom 28	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW06566	In classroom 28	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06567	In kitchen cafeteria	Kitchen Sink	<1	Pass	N/A	Testing complete
LW06568	In health room	Nurses Office Sink	<1	Pass	N/A	Testing complete

LW06570	In classroom 30	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW06571	In classroom 32	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
LW06574	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
LW06583	In music 34	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M38855	In work room by admin	Classroom Sink	<1	Pass	N/A	Testing complete
M38858	In hallway across APR	Drinking Fountain	<1	Pass	N/A	Testing complete
M38859	In hallway across APR	Drinking Fountain	<1	Pass	N/A	Testing complete
M38860	In kitchen cafeteria	Kitchen Sink	<1	Pass	N/A	Testing complete
M38861	In kitchen cafeteria	Kitchen Sink	<1	Pass	N/A	Testing complete
M38862	In kitchen cafeteria	Kitchen Sink	1.2	Pass	N/A	Testing complete
M38896	In classroom 19	Classroom Combination Sink	42.7	Fail	NC	Remediation Action Plan
M42824	In hallway next CR 14	Drinking Fountain	<1	Pass	N/A	Testing complete
M42952	In hallway left of CR 5	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 TESTING 2018**

### **Executive Summary: Oakland Terrace Elementary School**

2720 Plyers Mill Road  
Silver Spring, MD 20902

Date of Test Report:	03/20/2018
Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	4.9

### **Project Status**

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





March 20, 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: Oakland Terrace Elementary School  
2720 Plyers Mill Road  
Silver Spring, MD 20902

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 Oakland Terrace Elementary School, located at 2720 Plyers Mill Road, Silver Spring, MD 20902.

**Scope of Services:**

PSI conducted lead in water testing at Oakland Terrace 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 02/20/18, 02/21/18, and 02/22/18 to collect samples from 80 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 02/21/18 and 02/22/18 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.**

A handwritten signature in black ink that reads "Nand Kaushik".

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 Oakland Terrace Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00447	9	Art		Faucet	<1.0	Pass	Testing Complete
LW00448	9	Art		Faucet	<1.0	Pass	Testing Complete
LW00451	9	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06505	2	Classroom		Faucet	1.1	Pass	Testing Complete
LW06506	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06507	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06508	7	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06509	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06510	13	Classroom		Faucet	1.4	Pass	Testing Complete
LW06511	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06512	12	Classroom		Faucet	1.7	Pass	Testing Complete
LW06513	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06514	9	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06515	11	Classroom		Faucet	2.8	Pass	Testing Complete
LW06516	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06517		Hallway	Across From CR 12	Cooler	<1.0	Pass	Testing Complete
LW06518	4	Classroom		Faucet	1.4	Pass	Testing Complete
LW06519	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06520		Hallway	Left Of CR 5	Cooler	<1.0	Pass	Testing Complete
LW06521	6	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06522	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06523	8	Classroom		Faucet	1.1	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW06524	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06525	10	Classroom		Faucet	1.7	Pass	Testing Complete
LW06526	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06527	17	Classroom		Faucet	1.7	Pass	Testing Complete
LW06528	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06529	100	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06530	100	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06531	15	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06532	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06533	14	Classroom		Faucet	1	Pass	Testing Complete
LW06534	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06535	16	Classroom		Faucet	1.1	Pass	Testing Complete
LW06536	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06537	106	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06538	106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06539	109	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06540	109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06541	111	Music		Faucet	<1.0	Pass	Testing Complete
LW06542	31	Classroom		Faucet	4.9	Pass	Testing Complete
LW06543	34	Music		Faucet	1.2	Pass	Testing Complete
LW06544	101	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06545	101	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW06546	110	Dual Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW06547		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW06548	20	Classroom		Faucet	1.6	Pass	Testing Complete
LW06549	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06550	23	Classroom		Faucet	1.2	Pass	Testing Complete
LW06551	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW06552	27	Classroom		Faucet	2.2	Pass	Testing Complete
LW06553	27	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW06554	2	Classroom		Faucet	1	Pass	Testing Complete
LW06555	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06556	30	Classroom		Faucet	1.1	Pass	Testing Complete
LW06557	19	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW06558	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06559	18	Classroom		Faucet	2.6	Pass	Testing Complete
LW06560	21	Classroom		Faucet	1.6	Pass	Testing Complete
LW06561	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06562		Media Center		Faucet	4	Pass	Testing Complete
LW06563	26	Classroom		Faucet	2.7	Pass	Testing Complete
LW06564	26	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06565	28	Classroom		Faucet	2.7	Pass	Testing Complete
LW06566	28	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
LW06567		Kitchen	Cafeteria	Faucet	<1.0	Pass	Testing Complete
LW06568		Health Room		Faucet	<1.0	Pass	Testing Complete
LW06570	30	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06571	32	Classroom		Faucet	1.7	Pass	Testing Complete
LW06572	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06574		Break Room		Faucet	<1.0	Pass	Testing Complete
LW06583	34	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M38855		Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M38858		Hallway	Across APR	Cooler	<1.0	Pass	Testing Complete
M38860		Kitchen	Cafeteria	Faucet	1.3	Pass	Testing Complete
M38861		Kitchen	Cafeteria	Faucet	1.5	Pass	Testing Complete
M38862		Kitchen	Cafeteria	Faucet	1.3	Pass	Testing Complete
M38896	19	Classroom		Faucet	4.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M42824		Hallway	Next CR 14	Cooler	<1.0	Pass	Testing Complete
M42952		Hallway	Left Of CR 5	Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion