

Montgomery County Public Schools Lead in Drinking Water Testing Report

Washington Grove Elementary School
8712 Oakmont Street
Gaithersburg, MD 20877

Report Date: March 31st, 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	1/31/2020
# of Outlets Tested	75
# 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.
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.
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

Sample Results for Washington Grove ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00291	In kitchen by cafeteria	Kitchen Sink	2.5	Pass	N/A	Testing Complete
LW00292	In kitchen by cafeteria	Kitchen Sink	1.4	Pass	N/A	Testing Complete
LW00294	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00295	In classroom 162	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00296	In classroom 162	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW00297	In classroom 166	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00298	In classroom 166	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW00299	In classroom 172	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00300	In classroom 168	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW00301	In classroom 168	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00302	In office 163	Classroom Sink	1.4	Pass	N/A	Testing Complete
LW00303	In classroom 178 Esol	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00304	In classroom 178 Esol	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00307	In Preschool 175	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00308	In classroom 186 pep	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW00309	In classroom 186 pep	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
LW00310	In kindergarten 200	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00312	In kindergarten 200	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00313	In classroom 172	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW00314	In classroom 174	Classroom Combination Sink	2.7	Pass	N/A	Testing Complete
LW00315	In classroom 174	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00316	In classroom 171 art room	Classroom Sink	1.6	Pass	N/A	Testing Complete
LW00318	In classroom 182	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00319	In classroom 173	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW00321	In hallway right of room 175	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00322	In classroom 204	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete
LW00323	In classroom 204	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW00324	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00325	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00326	In kindergarten 208	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00327	In kindergarten 208	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00328	In hallway between 229 & 227	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00329	In hallway between 229 & 227	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00330	In Preschool 218	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00331	In Preschool 218	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
LW00332	In kindergarten 225	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00333	In kindergarten 225	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00334	In ESOL 219	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00335	In ESOL 219	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00336	In conference room 207 next to 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00337	In conference room 207 next to 209	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW00338	In classroom 105	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00339	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00340	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00341	In classroom 222	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00342	In classroom 222	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW00344	In classroom 226 music room	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW00345	In classroom 221 special ed	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
LW00346	In classroom 221 special ed	Classroom Combination Drinking Fountain	2.3	Pass	N/A	Testing Complete
LW00347	In classroom 101	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00348	In classroom 101	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00349	In classroom 115	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00350	In classroom 115	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00352	In classroom 105	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW00353	In break room 113 staff lounge	Teachers Lounge Sink	1.1	Pass	N/A	Testing Complete
LW00355	In classroom 119	Classroom Combination Sink	12.8	Fail	3.3	Testing Complete
LW00356	In hallway across from 112	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW00357	In hallway across from 112	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00360	In classroom 137	Classroom Sink	2.6	Pass	N/A	Testing Complete
LW00361	In classroom 139	Classroom Sink	2.1	Pass	N/A	Testing Complete
LW00365	In classroom 112 Esol	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
LW00366	In classroom 112 Esol	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00367	In classroom 116 Esol	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00368	In classroom 116 Esol	Classroom Combination Sink	4.6	Pass	N/A	Testing Complete
LW00369	In hallway by gymnasium ie. left of Pe office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00371	In classroom 136	Classroom Sink	1.9	Pass	N/A	Testing Complete
LW00373	In health room 144	Nurses Office Sink	1.4	Pass	N/A	Testing Complete
M02937	In hallway hall left of BSM office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07727	In classroom 129	Classroom Combination Sink	6.1	Fail	<1	Testing Complete
LW07726	In classroom 129	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07728	In classroom 116	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07729	In classroom 116	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW07730	Bottom of ramp to 2nd Level	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07731	Bottom of ramp to 2nd Level	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07732	Building Aervice Office	Teachers Lounge Sink	3.1	Pass	N/A	Testing Complete



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

Executive Summary:

Washington Grove Elementary School

8712 Oakmont Street
Gaithersburg, MD 20877

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	81
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	19.8

Project Status

Initial testing complete: All results less than 20 ppb.



March 12, 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: Washington Grove Elementary School
8712 Oakmont Street
Gaithersburg, MD 20877

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 Washington Grove Elementary School, located at 8712 Oakmont Street, Gaithersburg, MD 20877.

Scope of Services:

PSI conducted lead in water testing at Washington Grove 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 02/06/18 and 02/07/18 to collect samples from 81 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 02/07/18 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

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 Washington Grove Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00290		Kitchen		Faucet	7.5	Pass	Testing Complete
LW00291		Kitchen		Faucet	2.5	Pass	Testing Complete
LW00292		Kitchen		Faucet	1.7	Pass	Testing Complete
LW00293		Kitchen		Faucet	6.6	Pass	Testing Complete
LW00294		Kitchen		Faucet	1	Pass	Testing Complete
LW00295	162	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00296	162	Classroom		Faucet	2.5	Pass	Testing Complete
LW00297	166	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00298	166	Classroom		Faucet	3.9	Pass	Testing Complete
LW00299	172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00300	168	Classroom		Faucet	2.4	Pass	Testing Complete
LW00301	168	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00303	178	Classroom	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00304	178	Classroom	ESOL	Faucet	1.1	Pass	Testing Complete
LW00305	180	Music		Faucet	5.5	Pass	Testing Complete
LW00306	180	Music		Bubbler - Indoor	19.8	Pass	Testing Complete
LW00307	175	Preschool		Faucet	<1.0	Pass	Testing Complete
LW00308	186	Classroom	PEP	Faucet	1.6	Pass	Testing Complete
LW00309	186	Classroom	PEP	Bubbler - Indoor	4.7	Pass	Testing Complete
LW00310	200	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW00311	200	Kindergarten		Faucet	1.4	Pass	Testing Complete
LW00312	200	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00313	172	Classroom		Faucet	3.2	Pass	Testing Complete
LW00314	174	Classroom		Faucet	3.3	Pass	Testing Complete
LW00315	174	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00316	171	Classroom	Art Room	Faucet	2.3	Pass	Testing Complete
LW00317	182	Classroom		Bubbler - Indoor	5.7	Pass	Testing Complete
LW00318	182	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00319	173	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00320	173	Classroom		Faucet	7.9	Pass	Testing Complete
LW00321		Hallway	Right Of Room 175	Cooler	<1.0	Pass	Testing Complete
LW00322	204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00323	204	Classroom		Faucet	1.2	Pass	Testing Complete
LW00324	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00325	210	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00325	210	Classroom		Faucet	2.4	Pass	Testing Complete
LW00326	208	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00327	208	Kindergarten		Faucet	1.6	Pass	Testing Complete
LW00328		Hallway	Between 229 & 227	Cooler	<1.0	Pass	Testing Complete
LW00329		Hallway	Between 229 & 227	Cooler	<1.0	Pass	Testing Complete
LW00330	218	Preschool		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00331	218	Preschool		Faucet	1.7	Pass	Testing Complete
LW00332	225	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00333	225	Kindergarten		Faucet	1.9	Pass	Testing Complete
LW00334	219	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00335	219	ESOL		Faucet	1.8	Pass	Testing Complete
LW00336	207	Conference Room	Next To 209	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00337	207	Conference Room	Next To 209	Faucet	1	Pass	Testing Complete
LW00338	105	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00339	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00340	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00341	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00342	222	Classroom		Faucet	1.6	Pass	Testing Complete
LW00346	221	Classroom	Special Ed	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00347	101	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00348	101	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00349	115	Classroom		Faucet	1.3	Pass	Testing Complete
LW00350	115	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00352	105	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00353	113	Break Room	Staff Lounge	Faucet	1.2	Pass	Testing Complete
LW00354	119	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00355	119	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00356		Hallway	Across From 112	Cooler	<1.0	Pass	Testing Complete
LW00357		Hallway	Across From 112	Cooler	<1.0	Pass	Testing Complete
LW00358	116	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00359	116	ESOL		Faucet	<1.0	Pass	Testing Complete
LW00360	137	Classroom		Faucet	4.1	Pass	Testing Complete
LW00361	139	Classroom		Faucet	4.5	Pass	Testing Complete
LW00362	141	Classroom		Faucet	7.3	Pass	Testing Complete
LW00363	143	Classroom		Faucet	6.8	Pass	Testing Complete
LW00364	153	Media Center		Faucet	14.6	Pass	Testing Complete
LW00365	112	Classroom	ESOL	Faucet	3.4	Pass	Testing Complete
LW00366	112	Classroom	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00367	116	Classroom	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00368	116	Classroom	ESOL	Faucet	2.5	Pass	Testing Complete
LW00369		Hallway Gymnasium	Left Of PE Office	Cooler	<1.0	Pass	Testing Complete
LW00370	134	Classroom		Faucet	6.7	Pass	Testing Complete
LW00371	136	Classroom		Faucet	2.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00372	138	Classroom		Faucet	5.3	Pass	Testing Complete
LW00373	144	Health Room		Faucet	1.7	Pass	Testing Complete
M02937		Hallway	Hall Left of BSM Office	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion