

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Watkins Mill High School
10301 Apple Ridge Rd
Gaithersburg, MD 20879**

Report Date: March 30th, 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	2/28/2020
# of Outlets Tested	57
# 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.
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

Sampling Results for Watkins Mill HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW01275	In hallway adjacent to classroom E200	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01276	In hallway adjacent to classroom C206	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01279	In hallway adjacent to classroom E102	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01280	In hallway adjacent to classroom C119	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01281	In hallway adjacent to gymnasium G101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01282	In hallway adjacent to gymnasium G101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01283	In hallway adjacent to heath room D106	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01284	In hallway adjacent to heath room D106	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01301	In hallway next to E004	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01303	In computer lab C021	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01304	In classroom C010	Classroom Sink	1.8	Pass	N/A	Testing Complete
LW01305	In classroom C012	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01306	In hallway adjacent to room G004	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01307	In men's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01308	In women's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01309	In hallway across from A002	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01310	In hallway adjacent to room B006	Drinking Fountain	1.3	Pass	N/A	Testing Complete
LW01311	In concession G100	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01366	In work room by media center	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01367	In hallway across from media center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01368	In hallway adjacent to room B206	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01369	In office A201	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01370	In break room B229	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW01372	In hallway next to B127	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01373	In hallway next to B127	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01374	In main office in workroom A104	Teachers Lounge Sink	6.7	Fail	NC	Remediation Action Plan

LW01376	In classroom C004	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01377	In home economics C002	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW01378	In home economics C002	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW01379	In home economics C002	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW01380	In home economics C002	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW01382	In home economics C002	Home Economics Room Sink	2.9	Pass	N/A	Testing Complete
LW01383	In hallway next to B017 career center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01384	In dining hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01385	In dining hall in room B008G serving	Kitchen Sink	3.6	Pass	N/A	Testing Complete
LW01386	In kitchen B008	Ice Machine	<1	Pass	N/A	Testing Complete
LW01387	In kitchen B008	Kitchen Sink	1.8	Pass	N/A	Testing Complete
LW01388	In kitchen B008	Kitchen Sink	1.7	Pass	N/A	Testing Complete
LW01389	In kitchen B008	Kitchen Sink	4.0	Pass	N/A	Testing Complete
LW01391	In kitchen B008	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01392	In kitchen B008	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01393	In kitchen by cafeteria	Kitchen Sink	1.8	Pass	N/A	Testing Complete
LW01394	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01396	In kitchen by cafeteria	Kitchen Sink	1.0	Pass	N/A	Testing Complete
LW01397	In kitchen by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M11667	In classroom D107	Classroom Sink	<1	Pass	N/A	Testing Complete
M11698	In hallway adjacent to room B117	Drinking Fountain	<1	Pass	N/A	Testing Complete
M11812	In work room B013	Classroom Sink	<1	Pass	N/A	Testing Complete
M33036	In health room D106	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M33038	In health room D106 by health	Drinking Fountain	<1	Pass	N/A	Testing Complete
M46304	In office C217	Classroom Sink	2.2	Pass	N/A	Testing Complete
M46429	In dining hall by cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M46430	In hallway next B017 career center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08463	In between between boys & girls locker room (Training Room)	Ice Machine	<1	Pass	N/A	Testing Complete
LW08464	In hallway adjacent to room B017	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW08465	In hallway adjacent to room B127	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08466	In hallway adjacent to health room D106	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: Watkins Mill High School

10301 Apple Ridge Road
Gaithersburg, MD 20879

Date of Test Report:	03/20/2018
Round of Testing:	Initial
# of Outlets Tested:	60
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	18.6

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: Watkins Mill High School
10301 Apple Ridge Road
Gaithersburg, MD 20879

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 Watkins Mill High School, located at 10301 Apple Ridge Road, Gaithersburg, MD 20879.

Scope of Services:

PSI conducted lead in water testing at Watkins Mill High 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 02/22/18 and 02/23/18 to collect samples from 60 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 02/23/18 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

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 Watkins Mill High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01275		Hallway	Next To E200	Cooler	<1.0	Pass	Testing Complete
LW01276		Hallway	In Front Of C208	Cooler	<1.0	Pass	Testing Complete
LW01277	D201	Classroom		Faucet	6.5	Pass	Testing Complete
LW01279		Hallway	In Front Of E103	Cooler	<1.0	Pass	Testing Complete
LW01280		Hallway	In Front Of C110	Cooler	<1.0	Pass	Testing Complete
LW01281		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW01283		Hallway	Across From Health Room	Cooler	<1.0	Pass	Testing Complete
LW01284		Hallway		Cooler	<1.0	Pass	Testing Complete
LW01301		Hallway	Next To E004	Cooler	<1.0	Pass	Testing Complete
LW01303	C021	Computer Lab		Faucet	<1.0	Pass	Testing Complete
LW01304	C010	Classroom		Faucet	2.4	Pass	Testing Complete
LW01305	C012	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01306		Hallway	In Front Of Womens Locker	Cooler	<1.0	Pass	Testing Complete
LW01307		Locker Room - Womens		Cooler	<1.0	Pass	Testing Complete
LW01308		Locker Room - Mens		Cooler	<1.0	Pass	Testing Complete
LW01309		Hallway	Across From A002	Cooler	<1.0	Pass	Testing Complete
LW01310		Hallway	Next To B011 Womens	Cooler	<1.0	Pass	Testing Complete
LW01311	G100	Concession		Faucet	1.9	Pass	Testing Complete
LW01366		Work Room Media Center		Faucet	1.1	Pass	Testing Complete
LW01367		Hallway	Across From Media Center	Cooler	<1.0	Pass	Testing Complete
LW01368		Hallway	Across From B208	Cooler	<1.0	Pass	Testing Complete
LW01369	A201	Office		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01371	B129	Break Room		Faucet	<1.0	Pass	Testing Complete
LW01372		Hallway	Next To B127	Cooler	<1.0	Pass	Testing Complete
LW01373		Hallway	Next To B127	Cooler	<1.0	Pass	Testing Complete
LW01374		Break Room Office		Faucet	1	Pass	Testing Complete
LW01375	C006	Classroom		Faucet	8.3	Pass	Testing Complete
LW01376	C004	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01377	C002	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW01378	C002	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW01379	C002	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW01380	C002	Home Economics		Faucet	1	Pass	Testing Complete
LW01381	C002	Home Economics		Faucet	18.6	Pass	Testing Complete
LW01382	C002	Home Economics		Faucet	2.6	Pass	Testing Complete
LW01383		Hallway	Next To B017 Career Center	Cooler	<1.0	Pass	Testing Complete
LW01384		Dining Hall		Cooler	<1.0	Pass	Testing Complete
LW01385		Kitchen Cafeteria		Faucet	3.4	Pass	Testing Complete
LW01386		Kitchen Cafeteria		Icemaker	1.5	Pass	Testing Complete
LW01387		Kitchen Cafeteria		Faucet	1	Pass	Testing Complete
LW01388		Kitchen Cafeteria		Faucet	1.1	Pass	Testing Complete
LW01389		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW01390		Kitchen Cafeteria		Faucet	5.8	Pass	Testing Complete
LW01391		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW01392		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW01393		Kitchen Cafeteria		Faucet	4.4	Pass	Testing Complete
LW01394		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW01395		Kitchen Cafeteria		Faucet	8.8	Pass	Testing Complete
LW01396		Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
LW01397		Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
M11667	D107	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M11698		Hallway	Across CR B108	Cooler	<1.0	Pass	Testing Complete
M11793	D002	Computer Lab		Faucet	10.4	Pass	Testing Complete
M11812	B013	Work Room	Inside B013	Faucet	1	Pass	Testing Complete
M26523		Concession	Concession Next Auditorium	Faucet	10.7	Pass	Testing Complete
M33036	D106	Health Room		Faucet	<1.0	Pass	Testing Complete
M33038	D106	Health Room Health		Cooler	<1.0	Pass	Testing Complete
M46304	C217	Office		Faucet	4.7	Pass	Testing Complete
M46383	D203	Phy. Proj. Rm	Inside D203	Faucet	13.4	Pass	Testing Complete
M46429		Dining Hall Cafeteria		Cooler	<1.0	Pass	Testing Complete
M46430		Hallway	Next Rm B017 Career Center	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion