

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Julius West Middle School
651 Great Falls Road
Rockville, MD 20850**

Report Date: February 23rd, 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	11/19/2021
# of Outlets Tested	58
# of Outlets \geq 5 ppb	6

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

Sampling Results for Julius West MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW09409	In boys locker room 142A	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33411	In break room A131	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW12167	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33427	In computer lab	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33429	In computer lab	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33428	In computer lab	Teacher's Lounge Sink	1.6	Pass	N/A	Testing Complete
M33430	In computer lab	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
LW09404	In hallway adjacent to CR 110	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33412	In hallway adjacent to room A131	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09415	In hallway adjacent to 213a girls br	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09408	In hallway adjacent to boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33402	In hallway adjacent to classroom A101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09416	In hallway adjacent to CR 208	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33439	In hallway adjacent to CR7	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33440	In hallway adjacent to CR7	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45106	In hallway adjacent to room 01E	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09399	In hallway adjacent to room 123c gbr	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09400	In hallway adjacent to room 123c gbr	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09405	In hallway adjacent to room 126b	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09414	In hallway adjacent to room 223c	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33401	In hallway adjacent to room A101	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33403	In hallway adjacent to room A116	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33404	In hallway adjacent to room A116	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33413	In hallway adjacent to room A131	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33414	In hallway adjacent to room A201	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33415	In hallway adjacent to room A201	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09403	In health room 104A	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M45116	In home economics lab 5	Kitchen Sink	7.4	Fail	1.7	Testing Complete
LW09413	In home economics lab-5	Classroom Sink	<1	Pass	N/A	Testing Complete
LW09412	In home economics lab-5	Classroom Sink	14.2	Fail	13.4	Testing Complete

LW09410	In home economics lab-5	Classroom Sink	15.5	Fail	8.4	Testing Complete
LW09411	In home economics lab-5	Classroom Sink	19.7	Fail	18	Testing Complete
M45115	In home economics lab-5	Classroom Sink	23.3	Fail	8.3	Testing Complete
LW09390	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09391	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09393	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09394	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09397	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09398	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M45240	In kitchen	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45248	In kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW09395	In kitchen	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW09396	In kitchen	Kitchen Sink	13.0	Fail	<1	Testing Complete
LW09392	In kitchen	Kitchen Sink	2.5	Pass	N/A	Testing Complete
M45078	In language office 228	Teacher's Lounge Sink	1.4	Pass	N/A	Testing Complete
M25585	In office 231A	Teacher's Lounge Sink	3.3	Pass	N/A	Testing Complete
M45001	In office 234A	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M45087	In team 224	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33400	In team room 131	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M45190	In team room 132	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09417	In team room 204	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M45012	In team room 234C	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33409	In team room A112	Teacher's Lounge Sink	1.1	Pass	N/A	Testing Complete
M33421	In team room A217	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33423	In team room A222	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M45075	In testing room 227A	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09402	In work room adjacent to administration office	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09401	In work room adjacent to media center	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
Julius West Middle School
651 Great Falls Road
Rockville, MD 20850

Date of Test Report:	5/1/2018
Round of Testing:	Initial
# of Outlets Tested:	58
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	5.2

Project Status

Initial testing complete: All results less than 20 ppb.



July 24, 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: Julius West Middle School
651 Great Falls Road
Rockville, MD 20850

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 Julius West Middle School, located 651 Great Falls Road, Rockville, MD 20850.

Scope of Services:

PSI conducted lead in water testing at Julius West Middle 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 4/30/18 and 5/1/18 to collect samples from 59 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 4/27/18 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

Julius West Middle School Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Julius West Middle School (5/1/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09390		Kitchen Cafeteria		Faucet	1.0	Pass	Testing Complete
LW09391		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09392		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
LW09393		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09394		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09395		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09396		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
LW09397		Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
LW09398		Kitchen Cafeteria	Right Of Main Kitchen	Faucet	<1.0	Pass	Testing Complete
LW09399		Hallway	Right Of 123c Gbr	Cooler	<1.0	Pass	Testing Complete
LW09400		Hallway	Right Of 123c Gbr	Cooler	<1.0	Pass	Testing Complete
LW09401		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW09402		Work Room Administration	Adm E	Faucet	<1.0	Pass	Testing Complete
LW09403	104A	Health Room		Faucet	<1.0	Pass	Testing Complete
LW09404		Hallway	Across From Cr 110	Cooler	<1.0	Pass	Testing Complete
LW09405		Hallway	Across From 126b	Cooler	<1.0	Pass	Testing Complete
LW09406	142	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW09407		Hallway	Right Of Cr 119	Cooler	<1.0	Pass	Testing Complete
LW09408		Hallway	Left Of Boys Locker Room	Cooler	<1.0	Pass	Testing Complete
LW09409	142A	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW09410	LAB-5	Home Economics		Faucet	2.3	Pass	Testing Complete
LW09413	LAB-5	Home Economics		Faucet	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09414		Hallway	Right Of 223c	Cooler	<1.0	Pass	Testing Complete
LW09415		Hallway	Left Of 213a Girls Br	Cooler	<1.0	Pass	Testing Complete
LW09416		Hallway	Across From Cr-208	Cooler	<1.0	Pass	Testing Complete
LW09417	204	Team Room		Faucet	<1.0	Pass	Testing Complete
LW12167		Cafeteria		Cooler	<1.0	Pass	Testing Complete
M25585	231A	Office		Faucet	1.0	Pass	Testing Complete
M33400	131	Team Room		Faucet	<1.0	Pass	Testing Complete
M33401		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33402		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33403		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33404		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33409	A112	Team Room		Faucet	<1.0	Pass	Testing Complete
M33411	A131	Break Room		Faucet	<1.0	Pass	Testing Complete
M33412		Hallway	Outside Of A131	Cooler	<1.0	Pass	Testing Complete
M33413		Hallway	Outside Of A131	Cooler	<1.0	Pass	Testing Complete
M33414		Hallway	Across From A201	Cooler	<1.0	Pass	Testing Complete
M33415		Hallway	Across From A201	Cooler	<1.0	Pass	Testing Complete
M33421	A217	Team Room		Faucet	<1.0	Pass	Testing Complete
M33423	A222A	Team Room		Faucet	<1.0	Pass	Testing Complete
M33427	LAB-2	Computer		Faucet	<1.0	Pass	Testing Complete
M33428	LAB-3	Computer		Faucet	1.0	Pass	Testing Complete
M33429	LAB-3	Computer		Faucet	<1.0	Pass	Testing Complete
M33430	LAB-3	Computer		Faucet	<1.0	Pass	Testing Complete
M33439		Hallway	Across From Cr7	Cooler	<1.0	Pass	Testing Complete
M33440		Hallway	Across From Cr7	Cooler	<1.0	Pass	Testing Complete
M45001	234A	Office		Faucet	<1.0	Pass	Testing Complete
M45012	234C	Team Room		Faucet	2.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M45075	227A	Testing Room		Faucet	1.2	Pass	Testing Complete
M45078	228	Language Office		Faucet	2.6	Pass	Testing Complete
M45087	224	Team Rm		Faucet	<1.0	Pass	Testing Complete
M45106		Hallway	Across 01E	Cooler	<1.0	Pass	Testing Complete
M45115	LAB-5	Home Economics		Faucet	2.8	Pass	Testing Complete
M45116	LAB-5	Home Economics		Faucet	5.2	Pass	Testing Complete
M45190	132	Team Room		Faucet	<1.0	Pass	Testing Complete
M45240		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M45248		Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete

*ppb = parts per billion