

Montgomery County Public Schools Lead in Drinking Water Testing Report

Montgomery Blair High School
51 University Blvd, East
Silver Spring 20901

Report Date: March 10th, 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	2/14/2020
# of Outlets Tested	66
# 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.
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 Montgomery Blair HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00814	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00815	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00816	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00817	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00818	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00819	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00820	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00821	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00822	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00823	In kitchen	Kitchen Sink	2.2	Pass	N/A	Testing Complete
LW00824	In kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW00825	In break room next to kitchen	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW00826	In café next to kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00827	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00828	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00829	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00830	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00831	In hallway next to 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00832	In hallway next to 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00833	In hallway next to 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00834	In classroom 158	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00836	In health room 140	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW00837	In english office 141	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00838	In special ed 130	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00839	In work room inside of guidance	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00840	In media center office	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW00841	In concession by admin. across from main office	Classroom Combination Sink	2.9	Pass	N/A	Testing Complete
LW00843	In concession by admin. across from main office	Ice Machine	<1	Pass	N/A	Testing Complete
LW00844	In work room by administration	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW00846	In hallway outside of aud	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00847	In hallway outside of aud	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00849	In child development 1	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00853	In child development 1	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00854	In music 15	Classroom Sink	1.0	Pass	N/A	Testing Complete
LW00855	In hallway next to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00856	In locker room - boys	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00857	In hallway next to 255	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00858	In hallway next to 255	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00859	In hallway In front of 249	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00860	In hallway In front of 249	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00861	In hallway In front of 249	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00863	In hallway next to 225	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00864	In hallway next to 225	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00865	In hallway next to 360	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00866	In hallway next to 360	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00868	In hallway across from 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00869	In hallway across from 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00870	In hallway across from 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00871	In hallway across from 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00872	In office 310	Classroom Sink	1.0	Pass	N/A	Testing Complete
M30025	In training room between GLR and BLR	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
M43711	In office 343	Classroom Sink	<1	Pass	N/A	Testing Complete
M43831	In staff lounge 270	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M43948	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M43949	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete

M43952	In training room GLR and BLR	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M43965	In health room 140 exam room	Nurses Office Sink	1.5	Pass	N/A	Testing Complete
M43972	In concession by auditorium	Ice Machine	<1	Pass	N/A	Testing Complete
M43986	In hallway outside aud	Drinking Fountain	<1	Pass	N/A	Testing Complete
M44036	In classroom 5	Classroom Sink	2.3	Pass	N/A	Testing Complete
M44039	In child development 1	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW08492	In hallway adjacent to Auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08497	In hallway adjacent to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00835	In work room 152	Classroom Sink	<1	Pass	N/A	Testing Complete
LW08493	In hallway adjacent to 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08496	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary: Montgomery Blair High School

51 University Boulevard E
Silver Spring, MD 20901

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	74
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	15.8

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: Montgomery Blair High School
 51 University Boulevard E
 Silver Spring, MD 20901

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 Montgomery Blair High School, located at 51 University Boulevard E, Silver Spring, MD 20901.

Scope of Services:

PSI conducted lead in water testing at Montgomery Blair 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 02/06/18, 02/07/18, 02/08/18, and 02/09/18 to collect samples from 74 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 and 02/09/18 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 Montgomery Blair High School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00814		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00815		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00816		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00817		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00818		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00821		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00822		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00825		Break Room	Next To Kitchen	Faucet	<1.0	Pass	Testing Complete
LW00827		Cafeteria Hallway		Cooler	<1.0	Pass	Testing Complete
LW00828		Cafeteria Hallway		Cooler	<1.0	Pass	Testing Complete
LW00829		Cafeteria Hallway		Cooler	<1.0	Pass	Testing Complete
LW00830		Cafeteria Hallway		Cooler	<1.0	Pass	Testing Complete
LW00831		Hallway	Next To 161	Cooler	<1.0	Pass	Testing Complete
LW00832		Hallway	Next To 161	Cooler	<1.0	Pass	Testing Complete
LW00833		Hallway	Next To 161	Cooler	<1.0	Pass	Testing Complete
LW00835	152	Work Room		Faucet	<1.0	Pass	Testing Complete
LW00836	140	Health Room		Faucet	<1.0	Pass	Testing Complete
LW00837	141	English Office		Faucet	<1.0	Pass	Testing Complete
LW00838	130	Special Ed		Faucet	<1.0	Pass	Testing Complete
LW00839		Work Room	Inside Of Guidance Rm	Faucet	<1.0	Pass	Testing Complete
LW00840		Media Center Office		Faucet	<1.0	Pass	Testing Complete
LW00843		Concession	Across From Main Office	Icemaker	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00843		Concession	Across From Main Office	Icemaker	<1.0	Pass	Testing Complete
LW00844		Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW00845		Hallway	Outside Of Auditorium	Cooler	<1.0	Pass	Testing Complete
LW00846		Hallway	Outside Of Auditorium	Cooler	<1.0	Pass	Testing Complete
LW00847		Hallway	Outside Of Auditorium	Cooler	<1.0	Pass	Testing Complete
LW00850	001	Child Development		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00853	001	Child Development		Faucet	<1.0	Pass	Testing Complete
LW00854	15	Music		Faucet	<1.0	Pass	Testing Complete
LW00855		Hallway	Next To 116	Cooler	<1.0	Pass	Testing Complete
LW00856		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW00857		Hallway	Next To 255	Cooler	<1.0	Pass	Testing Complete
LW00858		Hallway	Next To 255	Cooler	<1.0	Pass	Testing Complete
LW00859		Hallway	In Front Of 249	Cooler	<1.0	Pass	Testing Complete
LW00860		Hallway	In Front Of 249	Cooler	<1.0	Pass	Testing Complete
LW00861		Hallway	In Front Of 249	Cooler	<1.0	Pass	Testing Complete
LW00863		Hallway	Next To 225	Cooler	<1.0	Pass	Testing Complete
LW00864		Hallway	Next To 225	Cooler	<1.0	Pass	Testing Complete
LW00865		Hallway	Next To 360	Cooler	<1.0	Pass	Testing Complete
LW00866		Hallway	Next To 360	Cooler	<1.0	Pass	Testing Complete
LW00867	341	Science		Faucet	<1.0	Pass	Testing Complete
LW00868		Hallway	Across From 325	Cooler	<1.0	Pass	Testing Complete
LW00869		Hallway	Across From 325	Cooler	<1.0	Pass	Testing Complete
LW00870		Hallway	Across From 325	Cooler	<1.0	Pass	Testing Complete
LW00871		Hallway	Across From 325	Cooler	<1.0	Pass	Testing Complete
M43711	343	Office		Faucet	<1.0	Pass	Testing Complete
M43948		Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M43949		Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M43952		Training Room	Between GLR and BLR	Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M43972		Concession Auditorium		Ice Maker	<1.0	Pass	Testing Complete
M43986		Hallway	Outside Auditorium	Cooler	<1.0	Pass	Testing Complete
LW00848	001	Child Development		Faucet	15.8	Pass	Testing Complete
M43969	101	Other (See Location Notes)	Com. Technology	Faucet	9.3	Pass	Testing Complete
LW00842		Concession	Across From Main Office	Faucet	7.6	Pass	Testing Complete
M44036	005	Classroom		Faucet	4.8	Pass	Testing Complete
LW00841		Concession	Across From Main Office	Faucet	4.7	Pass	Testing Complete
LW00862	251	Work Room		Faucet	4.3	Pass	Testing Complete
LW00826	CAFÉ	Other (See Location Notes)	Next To Kitchen	Faucet	4.1	Pass	Testing Complete
M43941	122	Classroom		Faucet	3.2	Pass	Testing Complete
M43965	140	Health Room Health	Exam Room	Faucet	3.2	Pass	Testing Complete
LW00383		Concession - Stadium		Faucet	2.9	Pass	Testing Complete
LW00823		Kitchen		Faucet	2.7	Pass	Testing Complete
LW00872	310	Office		Faucet	2.6	Pass	Testing Complete
LW00819		Kitchen		Faucet	2.3	Pass	Testing Complete
M43831	270	Break Room	Across 271	Faucet	2.2	Pass	Testing Complete
M30025		Training Room	Between GLR and BLR	Faucet	2.1	Pass	Testing Complete
LW00382		Concession - Stadium		Faucet	1.7	Pass	Testing Complete
LW00834	158	Classroom		Faucet	1.7	Pass	Testing Complete
LW00852	001	Child Development		Bubbler - Indoor	1.7	Pass	Testing Complete
M44039	001	Child Development		Faucet	1.6	Pass	Testing Complete
LW00820		Kitchen		Faucet	1.2	Pass	Testing Complete
LW00851	001	Child Development		Bubbler - Indoor	1.1	Pass	Testing Complete
LW00849	001	Child Development		Faucet	1	Pass	Testing Complete

*ppb = parts per billion