

Montgomery County Public Schools Lead in Drinking Water Testing Report

Piney Branch Elementary School
7510 Maple Ave
Takoma Park, MD 20912

Report Date: March 16th, 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	2/20/2020
# of Outlets Tested	34
# 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

Sample Results for Piney Branch ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00873	In break room by administration ie. next to principals office	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW00874	In break room by administration ie. next to principal office	Drinking Fountain	4.4	Pass	N/A	Testing Complete
LW00875	In kitchen by all purpose room	Ice Machine	<1	Pass	N/A	Testing Complete
LW00877	In hallway outside Blr	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00878	In hallway by locker room - girls ie. inside of pool hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00879	In hallway by locker room - boys ie. inside pool hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00882	In classroom 402	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW00883	In hallway next to 402	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00884	In hallway next to 402	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00886	In hallway next to 402	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00888	In hallway across from 409	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00889	In hallway across from 409	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00891	In hallway next to 417	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW00892	In classroom 417	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW00893	In classroom 417	Classroom Combination Drinking Fountain	3.9	Pass	N/A	Testing Complete
LW00894	In hallway across from 416	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00895	In hallway across from 416	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW00896	In hallway across from 419	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00897	In hallway across from 419	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00899	In hallway across from Romm 411	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW00901	In hallway across from room 413	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00904	In hallway across from room 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00905	In hallway across from room 214	Classroom Combination Drinking Fountain	1.0	Pass	N/A	Testing Complete
LW00906	In hallway across from room 204	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00907	In hallway across from room 204	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW00908	In classroom 202	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW00909	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M10927	In music 206	Classroom Sink	<1	Pass	N/A	Testing Complete
M10929	In hallway across CR 209	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10932	In hallway across CR 220	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10939	In special ed 216	Classroom Sink	<1	Pass	N/A	Testing Complete
M10970	In hallway outside GLR	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10982	In kitchen by all purpose room	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M10983	In kitchen by all purpose room	Kitchen Sink	2.1	Pass	N/A	Testing Complete



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary: Piney Branch Elementary School

7510 Maple Avenue
Takoma Park, MD 20912

Date of Test Report:	03/20/2018
Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	16.1

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: Piney Branch Elementary School
7510 Maple Avenue
Takoma Park, MD 20912

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 Piney Branch Elementary School, located at 7510 Maple Avenue, Takoma Park, MD 20912.

Scope of Services:

PSI conducted lead in water testing at Piney Branch 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 02/13/18 and 02/14/18 to collect samples from 47 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 02/14/18 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 Piney Branch Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW00873		Break Room Administration	Next To Principals Office	Faucet	<1.0	Pass	Testing Complete
LW00874		Break Room Administration	Next To Principal Office	Cooler	1.1	Pass	Testing Complete
LW00875		Kitchen All Purpose Room		Icemaker	<1.0	Pass	Testing Complete
LW00876		Kitchen All Purpose Room		Faucet	5.1	Pass	Testing Complete
LW00877		Hallway	Outside BLR	Cooler	1.3	Pass	Testing Complete
LW00878		Hallway Locker Room - Girls	Inside Of Pool Hallway	Cooler	<1.0	Pass	Testing Complete
LW00879		Hallway Locker Room - Boys	Inside Pool Hallway	Cooler	<1.0	Pass	Testing Complete
LW00880		Health Room		Faucet	5.2	Pass	Testing Complete
LW00881	402	Classroom		Faucet	8.2	Pass	Testing Complete
LW00883		Hallway	Next To 402	Faucet	4.7	Pass	Testing Complete
LW00884		Hallway	Next To 402	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00885		Hallway	Across From 404	Faucet	5.4	Pass	Testing Complete
LW00887	406	Music		Faucet	16.1	Pass	Testing Complete
LW00889		Hallway	Across From 409	Bubbler - Indoor	1.4	Pass	Testing Complete
LW00890		Hallway	Next To 417	Faucet	6.4	Pass	Testing Complete
LW00891		Hallway	Next To 417	Bubbler - Indoor	4.4	Pass	Testing Complete
LW00892	417	Classroom		Faucet	2.9	Pass	Testing Complete
LW00893	417	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW00894		Hallway	Across From 416	Faucet	1.8	Pass	Testing Complete
LW00895		Hallway	Across From 416	Bubbler - Indoor	2.3	Pass	Testing Complete
LW00896		Hallway	Across From 419	Faucet	1.0	Pass	Testing Complete
LW00897		Hallway	Across From 419	Bubbler - Indoor	3.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW00898		Hallway	Across From 411	Faucet	8.1	Pass	Testing Complete
LW00899		Hallway	Across From 411	Bubbler - Indoor	4.7	Pass	Testing Complete
LW00900		Hallway	Across From 413	Faucet	11.4	Pass	Testing Complete
LW00901		Hallway	Across From 413	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00902		Office Media Center		Faucet	11.8	Pass	Testing Complete
LW00903	212	Classroom		Faucet	6.9	Pass	Testing Complete
LW00904		Hallway	Across From 214	Faucet	1.2	Pass	Testing Complete
LW00905		Hallway	Across From 214	Bubbler - Indoor	1.8	Pass	Testing Complete
LW00906		Hallway	Across From 204	Faucet	2.4	Pass	Testing Complete
LW00907		Hallway	Across From 204	Bubbler - Indoor	3	Pass	Testing Complete
LW00908	202	Classroom		Faucet	4.7	Pass	Testing Complete
LW00909	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M10927	206	Music		Faucet	1.9	Pass	Testing Complete
M10929		Hallway	Across 209	Cooler	<1.0	Pass	Testing Complete
M10932		Hallway	Across 220	Cooler	<1.0	Pass	Testing Complete
M10939	216	Special Ed		Faucet	1.8	Pass	Testing Complete
M10951		PTA storage		Faucet	10.3	Pass	Testing Complete
M10952		Building Service - Office ESOL		Faucet	11.3	Pass	Testing Complete
M10954		PTA storage		Faucet	15.9	Pass	Testing Complete
M10970		Hallway	Outside GLR	Cooler	<1.0	Pass	Testing Complete
M10981		Kitchen All Purpose Room		Faucet	5.2	Pass	Testing Complete
M10982		Kitchen All Purpose Room		Faucet	1.9	Pass	Testing Complete
M10983		Kitchen All Purpose Room		Faucet	4.2	Pass	Testing Complete
M10984		Kitchen All Purpose Room		Faucet	10.1	Pass	Testing Complete
M41301		Office ESOL Office		Faucet	9.5	Pass	Testing Complete

*ppb = parts per billion