



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.

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