



**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