



## **MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018**

**Executive Summary:**  
**Cabin John Middle School**  
10701 Gainsborough Road,  
Potomac, MD 20854

Date of Test Report:	05/10/2018
Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	10.3

### **Project Status**

**Initial testing complete:** All results less than 20 ppb.



May 10, 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: Cabin John Middle School  
10701 Gainsborough Road,  
Potomac, MD 20854

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 Cabin John Middle School, located at 10701 Gainsborough Road, Potomac, MD 20854.

**Scope of Services:**

PSI conducted lead in water testing at Cabin John 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 03/13/18, 03/14/18 and 03/15/18 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 dates 03/14/18 and 03/15/18 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](mailto: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 Cabin John Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07194	1400	All Purpose Room	Right of Stage	Cooler	<1.0	Pass	Testing Complete
LW07195	1400	All Purpose Room	Right of Stage	Cooler	<1.0	Pass	Testing Complete
LW07196		Hallway	Across From 1316	Cooler	<1.0	Pass	Testing Complete
M09392		Hallway	Across from CR 2225	Cooler	<1.0	Pass	Testing Complete
M09393		Hallway	Across from CR 2225	Cooler	<1.0	Pass	Testing Complete
M09398		Hallway	Across from CR 2115	Cooler	<1.0	Pass	Testing Complete
M09399		Hallway	Across from CR 2115	Cooler	<1.0	Pass	Testing Complete
M09409	1103B	Kitchen	inside CR 1103	Faucet	<1.0	Pass	Testing Complete
M09414	1115B	Kitchen	inside CR 1115 and 1119	Faucet	<1.0	Pass	Testing Complete
M09416		Hallway	Across from CR 1131	Cooler	<1.0	Pass	Testing Complete
M09417		Hallway	Across from CR 1131	Cooler	<1.0	Pass	Testing Complete
M09427		Hallway	Across from 1320 IMC	Cooler	<1.0	Pass	Testing Complete
M09431		Hallway	Next to 1309 Girls Locker Room	Cooler	<1.0	Pass	Testing Complete
M09432		Hallway	Next to 1309 Girls Locker Room	Cooler	<1.0	Pass	Testing Complete
M09438	1309	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M09443	1317	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M09460		Hallway	Across from CR 1409	Cooler	<1.0	Pass	Testing Complete
M09461		Hallway	Across from CR 1409	Cooler	<1.0	Pass	Testing Complete
M09468	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09469	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09470	1402	Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M09471	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09473	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09484		Hallway	Across from CR 1225	Cooler	<1.0	Pass	Testing Complete
M09485		Hallway	Across from CR 1225	Cooler	<1.0	Pass	Testing Complete
M09477	1006	Health Room		Faucet	10.3	Pass	Testing Complete
M09451	1409	Music		Faucet	9.9	Pass	Testing Complete
M09448	1301	Home Economics		Faucet	7.2	Pass	Testing Complete
M09397	2114	Conference		Faucet	3.3	Pass	Testing Complete
M09483	1216	Conference	Across from CR 1213	Faucet	2.4	Pass	Testing Complete
M09428	1320B	Work Room Media Center	Inside IMC	Faucet	2.0	Pass	Testing Complete
M09447	1301	Home Economics		Faucet	2.0	Pass	Testing Complete
M09452	1409	Music		Faucet	2.0	Pass	Testing Complete
M09425	1331	Break Room		Faucet	1.9	Pass	Testing Complete
M09481	1000C	Work Room Admin	Inside Admin	Faucet	1.8	Pass	Testing Complete
M09412	1104	Conference		Faucet	1.7	Pass	Testing Complete
M09464	1402	Kitchen		Faucet	1.6	Pass	Testing Complete
M09465	1402	Kitchen		Faucet	1.5	Pass	Testing Complete
M09395	2216	Team Rm		Faucet	1.4	Pass	Testing Complete
M09449	1301	Home Economics		Faucet	1.3	Pass	Testing Complete
M09466	1402	Kitchen		Faucet	1.3	Pass	Testing Complete
M09478	1006D	Exam Health	Inside 1006 Health	Faucet	1.3	Pass	Testing Complete
M09467	1402	Kitchen		Faucet	1.2	Pass	Testing Complete
M09640	1323	Wood Shop		Faucet	1.2	Pass	Testing Complete
M09462	1415	Band		Faucet	1.1	Pass	Testing Complete
M09411	1109B	Kitchen	Inside CR 1109	Faucet	1.0	Pass	Testing Complete
M09472	1402	Kitchen		Faucet	1.0	Pass	Testing Complete

\*ppb = parts per billion