



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

**Executive Summary:**  
**Redland Middle School**  
6505 Muncaster Mill Road  
Derwood, MD 20855

Date of Test Report:	04/13/2018
Round of Testing:	Initial
# of Outlets Tested:	35
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	10.5

### **Project Status**

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



April 13, 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: Redland Middle School  
6505 Muncaster Mill Road  
Derwood, MD 20855

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 Redland Middle School, located at 6505 Muncaster Mill Road, Derwood, MD 20855.

**Scope of Services:**

PSI conducted lead in water testing at Redland 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 03/19/18 and 03/20/18 to collect samples from 55 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 03/20/18 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  
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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 Redland Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW02146		Hallway	Right Of Room 114	Cooler	<1.0	Pass	Testing Complete
LW02147	100C	Administration		Faucet	<1.0	Pass	Testing Complete
LW02148		Hallway	Left Of Room 101	Cooler	<1.0	Pass	Testing Complete
LW02149		Hallway	Left Of Room 129	Cooler	<1.0	Pass	Testing Complete
LW02150	229	Home Economics		Faucet	10.5	Pass	Testing Complete
LW02151	229	Home Economics		Faucet	7.4	Pass	Testing Complete
LW02152	229	Home Economics		Faucet	5.0	Pass	Testing Complete
LW02153		Hallway	Right Of Room 217	Cooler	<1.0	Pass	Testing Complete
LW02154		Hallway	Right Of Room 217	Cooler	<1.0	Pass	Testing Complete
LW02155	215	Team Room		Faucet	1.0	Pass	Testing Complete
LW07159		Hallway	Outside Of Room 189	Cooler	<1.0	Pass	Testing Complete
LW07160	189	Music		Cooler	5.6	Pass	Testing Complete
LW07161		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW07162		Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW07163		Hallway	Outside Of Room 168	Cooler	1.1	Pass	Testing Complete
LW07164		Hallway	Across From Room 180	Cooler	<1.0	Pass	Testing Complete
LW07165	139	Work Room		Faucet	<1.0	Pass	Testing Complete
LW07166	126	Kitchen		Faucet	1.7	Pass	Testing Complete
LW07167	126	Kitchen		Faucet	2.9	Pass	Testing Complete
LW07473		Hallway	In Front Of Room 180	Cooler	<1.0	Pass	Testing Complete
LW07474	145	Work Room		Faucet	<1.0	Pass	Testing Complete
LW07475		Hallway	Across From Room 134	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07476	126	Kitchen		Faucet	1.8	Pass	Testing Complete
LW07477	126	Kitchen		Faucet	1.9	Pass	Testing Complete
LW07478	126	Kitchen		Icemaker	<1.0	Pass	Testing Complete
LW07479	126A	Work Room		Faucet	<1.0	Pass	Testing Complete
LW07480	126	Kitchen		Faucet	1.6	Pass	Testing Complete
LW07481		Cafeteria	By Courtyard	Cooler	<1.0	Pass	Testing Complete
LW07482		Hallway	Under Room 126 Sign	Cooler	1.8	Pass	Testing Complete
LW07483		Hallway	Right Of Room 114	Cooler	<1.0	Pass	Testing Complete
LW07484		Hallway	Left Of Room 129	Cooler	<1.0	Pass	Testing Complete
M13134		Hallway	Across From Room 176	Bubbler - Indoor	2.8	Pass	Testing Complete
M13140		Media Center		Faucet	5.0	Pass	Testing Complete
M13148	105	Health Room		Faucet	<1.0	Pass	Testing Complete
M15013	126H	Break Room	Cafeteria	Faucet	7.2	Pass	Testing Complete

\*ppb = parts per billion