



## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 10, 2018

**Executive Summary:**  
**Wootton High School**  
2100 Wootton Pkwy.  
Rockville, MD 20850

Round of Testing:	Initial
# of Outlets Tested:	59
# of Outlets $\geq$ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	112.0
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Computer Lab (112.0 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	1

**Project Status**  
**Testing Complete: Remediation Plan**

Computer Lab – Replace fixture (LW02269), in addition to supply line and valve located under sink



May 8, 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: Wootton High School  
2100 Wootton Pkwy.  
Rockville, MD 20850

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 Wootton High School, located at 2100 Wootton Pkwy. in Rockville, MD 20855.

**Scope of Services:**

PSI conducted lead in water testing at Wootton 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 3/14/18 and 3/15/18 to collect samples from 59 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. One 30 second follow-up sample was collected on 4/18/18.

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 was one result of the initial lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:



Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
LW02269	Computer Lab	3/15/2018	112.0	4/18/18	56.4

The initial lead in water sample results (03/15/2018) and 30 second follow up results (4/18/18) 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

## Wootton HS Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Initial Sample Results for Wootton High School (3/15/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02254	20	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW02255		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02256		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02257		Kitchen		Faucet	3.8	Pass	Testing Complete
LW02258		Kitchen		Faucet	8.0	Pass	Testing Complete
LW02259		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02260		Kitchen		Faucet	4.2	Pass	Testing Complete
LW02261		Kitchen		Faucet	4.1	Pass	Testing Complete
LW02262		Kitchen		Icemaker	1.1	Pass	Testing Complete
LW02263	42	Child Development		Faucet	<1.0	Pass	Testing Complete
LW02264	42	Child Development		Faucet	<1.0	Pass	Testing Complete
LW02265	42	Child Development		Cooler	<1.0	Pass	Testing Complete
LW02266	43	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02267	106	Home Economics		Faucet	1.0	Pass	Testing Complete
LW02268	106	Home Economics		Faucet	3.7	Pass	Testing Complete
LW02269	111	Computer Lab		Faucet	112.0	Fail	Follow Up Test Needed
LW02270		Hallway	Across From 110	Cooler	2.1	Pass	Testing Complete
LW02271	119	Break Room		Faucet	<1.0	Pass	Testing Complete
LW02272	155	Office		Faucet	<1.0	Pass	Testing Complete
LW02274		Hallway	In Front Of 130a	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02275	175	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02276	118	Health Room		Faucet	<1.0	Pass	Testing Complete
LW02277	174	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02278	255	Office		Faucet	<1.0	Pass	Testing Complete
LW02279		Hallway	Next To 202a	Cooler	<1.0	Pass	Testing Complete
LW02280	203	Office		Faucet	5.7	Pass	Testing Complete
LW02281		Hallway	Left Of 211	Cooler	1.3	Pass	Testing Complete
M04482		Hallway	Auditorium Hallway	Cooler	<1.0	Pass	Testing Complete
M04532		Hallway	Auditorium Hallway	Cooler	<1.0	Pass	Testing Complete
M04547		Kitchen	By line #5	Faucet	1.3	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M21330	202	Storage		Faucet	4.9	Pass	Testing Complete
M21363		Hallway	Across from CR 281	Cooler	<1.0	Pass	Testing Complete
M21372		Hallway	Opposite CR 268	Cooler	<1.0	Pass	Testing Complete
M21373		Hallway	Opposite CR 268	Cooler	<1.0	Pass	Testing Complete
M21375		Hallway	Across from Lounge	Cooler	<1.0	Pass	Testing Complete
M21376		Hallway	Across from Lounge	Cooler	<1.0	Pass	Testing Complete
M21381		Hallway	Next to Storage 237	Cooler	<1.0	Pass	Testing Complete
M21382		Hallway	Next to Storage 237	Cooler	<1.0	Pass	Testing Complete
M21428	217	Dept. Office		Faucet	1.7	Pass	Testing Complete
M21429	217	Dept. Office		Faucet	6.9	Pass	Testing Complete
M21478	109	Classroom		Faucet	4.0	Pass	Testing Complete
M21482	106	Home Economics		Faucet	4.2	Pass	Testing Complete
M21483	106	Home Economics		Faucet	3.2	Pass	Testing Complete
M21484	106	Home Economics		Faucet	3.4	Pass	Testing Complete
M21485	106	Home Economics		Faucet	3.1	Pass	Testing Complete
M21496	122	Concession	S.G.A. Rm	Faucet	<1.0	Pass	Testing Complete
M21502		Hallway	Next to Mechanical Rm 136	Cooler	<1.0	Pass	Testing Complete
M21503		Hallway	Next to Mechanical Rm 136	Cooler	<1.0	Pass	Testing Complete
M21514		Hallway	Outside Admin	Cooler	<1.0	Pass	Testing Complete
M21515		Hallway	Outside Admin	Cooler	<1.0	Pass	Testing Complete
M21516	100G	Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M21532	102B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M21535		Hallway	Outside CR 187	Cooler	<1.0	Pass	Testing Complete
M21536		Hallway	Outside CR 187	Cooler	<1.0	Pass	Testing Complete
M21541		Hallway	Next to Lounge 182	Cooler	<1.0	Pass	Testing Complete
M21554		Hallway	Right of CR 168	Cooler	<1.0	Pass	Testing Complete
M21555		Hallway	Right of CR 168	Cooler	<1.0	Pass	Testing Complete
M21557		Girls Locker Room		Bubbler - Indoor	3.6	Pass	Testing Complete
M21572		Hallway	Next CR 13	Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Follow Up Sample Results for Wootton High School (4/18/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	Initial draw (3 <sup>rd</sup> ) (PPB)	30 Second Draw (PPB)	Status
LW02269	111	Computer Lab	Faucet	53.6	1,270.0	56.4	Remediation required – replace fixture, in addition to supply line and valve located under sink

\*ppb = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.