



## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

July 18, 2018

**Executive Summary:**  
**Clarksburg High School**  
22500 Wims Road,  
Clarksburg, MD 20871

Round of Testing:	Initial
# of Outlets Tested:	112
# of Outlets $\geq$ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	20.4
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Kitchen (20.4 ppb)

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

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

Kitchen – Replace fixture (M07303), in addition to supply line and valve located under sink



July 18, 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: Clarksburg High School  
22500 Wims Road,  
Clarksburg, MD 20871

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 Clarksburg High School, located 22500 Wims Road, Clarksburg, MD 20871.

**Scope of Services:**

PSI conducted lead in water testing at Clarksburg 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 4/19/18 and 4/20/18 to collect samples from 112 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 6/21/18.

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)
M07303	Kitchen	4/20/18	20.4	6/21/18	ND

\*ppb = parts per billion  
ND = Non Detect

The initial lead in water sample results (4/20/18) and 30 second follow up results (6/21/18) 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](mailto:Nand.Kaushik@psiusa.com)

Attachments: A – Lead in Water Test Summary Table

# ATTACHMENT A

## Clarksburg High School Water Test Summary Table

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

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

Initial Sample Results for Clarksburg High School 4/20/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09109	110D	Work Room		Faucet	<1.0	Pass	Testing Complete
LW09110	110D	Work Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09112	104	Copy Room		Faucet	3.1	Pass	Testing Complete
LW09113		Hallway	Left Of 107c	Cooler	<1.0	Pass	Testing Complete
LW09114		Hallway	Right Of 117	Cooler	<1.0	Pass	Testing Complete
LW09115		Hallway	Right Of 117	Cooler	<1.0	Pass	Testing Complete
LW09116		Hallway	In Front Of Concession	Cooler	<1.0	Pass	Testing Complete
LW09117		Hallway	In Front Of Concession	Cooler	<1.0	Pass	Testing Complete
LW09118	120G	Concession		Faucet	<1.0	Pass	Testing Complete
LW09119	120G	Concession		Bubbler - Indoor	1.0	Pass	Testing Complete
LW09120	120G	Concession		Ice Maker	<1.0	Pass	Testing Complete
LW09121		Hallway	Across From 130	Cooler	10.3	Pass	Testing Complete
LW09122		Hallway	Across From 130	Cooler	6.0	Pass	Testing Complete
LW09123		Hallway	Across From 138b	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09124		Hallway	Across From 138b	Cooler	<1.0	Pass	Testing Complete
LW09125	139	Dressing Room - Mens		Faucet	<1.0	Pass	Testing Complete
LW09126	139	Dressing Room - Womens		Faucet	<1.0	Pass	Testing Complete
LW09127	137	Dressing Room - Womens		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09129	138	Break Room		Faucet	1.2	Pass	Testing Complete
LW09130	138	Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09131		Hallway	Across From 146	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09132		Hallway	Across From 146	Cooler	<1.0	Pass	Testing Complete
LW09133		Hallway	Left Of 155	Cooler	<1.0	Pass	Testing Complete
LW09134		Hallway	Next To 151c	Cooler	<1.0	Pass	Testing Complete
LW09136		Hallway	Across From 168	Cooler	<1.0	Pass	Testing Complete
LW09137		Hallway	Across From 168	Cooler	<1.0	Pass	Testing Complete
LW09138		Locker Room - Mens		Cooler	1.1	Pass	Testing Complete
LW09139		Locker Room - Mens		Cooler	<1.0	Pass	Testing Complete
LW09140		Locker Room - Womens		Cooler	<1.0	Pass	Testing Complete
LW09141		Locker Room - Womens		Cooler	<1.0	Pass	Testing Complete
LW09142		Hallway	Right Of 179c	Cooler	<1.0	Pass	Testing Complete
LW09143		Hallway	Right Of 179c	Cooler	<1.0	Pass	Testing Complete
LW09144		Hallway	Across From Room 183	Cooler	<1.0	Pass	Testing Complete
LW09145		Hallway	Across From Room 183	Cooler	<1.0	Pass	Testing Complete
LW09146	183	Training Room		Faucet	<1.0	Pass	Testing Complete
LW09147	183	Training Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09148	183	Training Room		Ice Maker	<1.0	Pass	Testing Complete
LW09149	183	Training Room		Ice Maker	<1.0	Pass	Testing Complete
LW09150		Hallway	Left Of 192h	Cooler	<1.0	Pass	Testing Complete
LW09151		Hallway	Left Of 192h	Cooler	<1.0	Pass	Testing Complete
LW09153		Kitchen		Faucet	1.5	Pass	Testing Complete
LW09154		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW09155		Kitchen		Faucet	2.0	Pass	Testing Complete
LW09156		Hallway	In Front Of 173b	Cooler	<1.0	Pass	Testing Complete
LW09157	195	Break Room		Faucet	<1.0	Pass	Testing Complete
LW09158	195	Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09159		Hallway	In Front Of 173	Cooler	<1.0	Pass	Testing Complete
LW09160		Hallway	Across From 114	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09163		Hallway	Right Of 210	Cooler	<1.0	Pass	Testing Complete
LW09164		Hallway	Right Of 210	Cooler	<1.0	Pass	Testing Complete
LW09165		Hallway	Left Of 223a	Cooler	<1.0	Pass	Testing Complete
LW09166		Hallway	Left Of 223a	Cooler	<1.0	Pass	Testing Complete
LW09167		Hallway	In Front Of 228	Cooler	<1.0	Pass	Testing Complete
LW09168		Hallway	In Front Of 228	Cooler	<1.0	Pass	Testing Complete
LW09169	224	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW09170	224	Resource Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09171	230	Office		Faucet	1.2	Pass	Testing Complete
LW09172	230	Office		Bubbler - Indoor	1.0	Pass	Testing Complete
LW09175		Hallway	In Front Of 200a	Faucet	<1.0	Pass	Testing Complete
LW09176		Hallway	In Front Of 200a	Cooler	<1.0	Pass	Testing Complete
LW09177		Hallway	Across From 235d	Cooler	<1.0	Pass	Testing Complete
LW09178		Hallway	Right Of 235c	Cooler	<1.0	Pass	Testing Complete
M07155	102	Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M07156	102	Work Room Admin		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07160	106	Health Room		Faucet	<1.0	Pass	Testing Complete
M07161	106	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07171	104	Copy Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07182	107	Office		Faucet	<1.0	Pass	Testing Complete
M07195	119	Child Development		Faucet	<1.0	Pass	Testing Complete
M07196	119	Child Development		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07197	119	Child Development		Faucet	<1.0	Pass	Testing Complete
M07198	119	Child Development		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07199	119	Child Development		Cooler	<1.0	Pass	Testing Complete
M07222	136A	Office		Faucet	<1.0	Pass	Testing Complete
M07223	136A	Office		Bubbler -	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
				Indoor			
M07224	136C	Storage		Faucet	<1.0	Pass	Testing Complete
M07242	162	Office		Faucet	<1.0	Pass	Testing Complete
M07243	162	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07287	194	Classroom		Faucet	<1.0	Pass	Testing Complete
M07288	194	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07289	192	Classroom		Cooler	<1.0	Pass	Testing Complete
M07290	192	Classroom		Cooler	<1.0	Pass	Testing Complete
M07291	192	Classroom		Faucet	<1.0	Pass	Testing Complete
M07292	192	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07293		Kitchen		Faucet	<1.0	Pass	Testing Complete
M07294		Kitchen		Faucet	3.3	Pass	Testing Complete
M07295		Kitchen		Faucet	<1.0	Pass	Testing Complete
M07298		Kitchen		Faucet	1.3	Pass	Testing Complete
M07300		Kitchen		Faucet	<1.0	Pass	Testing Complete
M07301		Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M07303		Kitchen		Faucet	20.4	Fail	Follow-Up Testing Needed
M07304		Kitchen		Faucet	1.0	Pass	Testing Complete
M27477	200F	Work Room Media Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27479	249	Break Room		Bubbler - Indoor	6.7	Pass	Testing Complete
M27480	249	Break Room		Faucet	3.2	Pass	Testing Complete
M27483		Hallway	Between 249C & 249B	Cooler	<1.0	Pass	Testing Complete
M27484		Hallway	Between 249C & 249B	Cooler	<1.0	Pass	Testing Complete
M27485	240	Office		Faucet	3.4	Pass	Testing Complete
M27486	240	Office		Bubbler - Indoor	3.1	Pass	Testing Complete
M27509	210	Office		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M27510	210	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27513	225	Work Room		Faucet	1.4	Pass	Testing Complete
M27514	225	Work Room		Bubbler - Indoor	1.1	Pass	Testing Complete
M27523		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M33072		Hallway	Next To 1004a	Cooler	<1.0	Pass	Testing Complete
M33073		Hallway	Next To 1004a	Cooler	<1.0	Pass	Testing Complete
M33080		Hallway	Across From 1011a	Cooler	<1.0	Pass	Testing Complete
M33081		Hallway	Across From 1011a	Cooler	<1.0	Pass	Testing Complete
M33087		Hallway	Across From 250	Cooler	<1.0	Pass	Testing Complete
M33088		Hallway	Across From 250	Cooler	<1.0	Pass	Testing Complete
M33090		Hallway	Across From 256	Cooler	<1.0	Pass	Testing Complete
M33091		Hallway	Across From 256	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 Clarksburg High School (6/21/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	30 Second Draw (PPB)	Status
M07303		Kitchen	Faucet	1.7	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

\*ppb = parts per billion  
ND = Non Detect

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd 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.