



## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 25, 2018

**Executive Summary:**  
**Mill Creek Towne Elementary School**  
17700 Park Mill Drive  
Derwood, MD 20855

Round of Testing:	Initial
# of Outlets Tested:	53
# of Outlets $\geq$ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	110.0
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Room 143 (110.0 ppb)

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

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

Classroom 143– Replace fixture (LW07527), in addition to supply line and valve located under sink



May 25, 2018

Mr. Brian Mullikin  
Environmental Team Leader  
Montgomery County Public Schools  
8301 Turkey Thicket Drive  
Building A, First Floor Mill  
Creek Towne, Maryland 20879

Re: Lead in Water Testing Service

Location: Mill Creek Towne Elementary School  
17700 Park Mill Drive  
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 Mill Creek Towne Elementary School, located at 17700 Park Mill Drive in Derwood, MD 20855.

**Scope of Services:**

PSI conducted lead in water testing at Mill Creek Towne 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 3/20/18 and 3/21/18 to collect samples from 53 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 5/8/18.

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)
LW07527	Classroom	3/21/18	110.0	5/8/18	<1.0

The initial lead in water sample results (3/21/18) and 30 second follow up results (5/8/18) 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

## Mill Creek Towne ES Water Test Summary Table

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

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

Initial Sample Results for Mill Creek Towne Elementary School (3/21/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW07501	115	Break Room	Across from 118	Faucet	<1.0	Pass	Testing Complete
LW07502	120	Classroom		Faucet	2.3	Pass	Testing Complete
LW07503	120	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW07504		Hallway	Across from 111	Cooler	<1.0	Pass	Testing Complete
LW07505	123	Classroom		Faucet	6.6	Pass	Testing Complete
LW07506	126	Classroom		Faucet	4.8	Pass	Testing Complete
LW07507	126	Classroom		Bubbler - Indoor	4.0	Pass	Testing Complete
LW07508	128	Classroom		Faucet	1.2	Pass	Testing Complete
LW07510		Hallway	Right of 140	Cooler	<1.0	Pass	Testing Complete
LW07511	210	Classroom		Faucet	1.3	Pass	Testing Complete
LW07512	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07513	225	Classroom		Faucet	8.7	Pass	Testing Complete
LW07514	118	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07516		Hallway	Left of Room 109a	Cooler	<1.0	Pass	Testing Complete
LW07517	122	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07519	125	Classroom		Faucet	3.8	Pass	Testing Complete
LW07520	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07521	127	Classroom		Faucet	3.4	Pass	Testing Complete
LW07523	129	Classroom		Faucet	16.6	Pass	Testing Complete
LW07524	129	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW07525	139A	Work Room		Faucet	<1.0	Pass	Testing Complete
LW07526	209	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW07527	143	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07527	143	Classroom		Faucet	3.9	Pass	Testing Complete
LW07527	143	Classroom		Faucet	110.0	Fail	Follow-Up Testing Needed
LW07529	207	Classroom		Faucet	2.0	Pass	Testing Complete
LW07530	207	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW07531	211	Classroom		Faucet	10.6	Pass	Testing Complete
LW07532	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07533	213	Classroom		Faucet	1.4	Pass	Testing Complete
LW07534	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW07535		Hallway	Right of 228	Cooler	<1.0	Pass	Testing Complete
LW07536		Hallway	Right of 228	Cooler	<1.0	Pass	Testing Complete
LW07537	227	Classroom		Faucet	1.9	Pass	Testing Complete
LW07538	227	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07539		Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW07540	225	Classroom		Bubbler - Indoor	3.2	Pass	Testing Complete
LW07553	100H	Work Room		Faucet	<1.0	Pass	Testing Complete
M04415		Kitchen		Faucet	<1.0	Pass	Testing Complete
M04416		Kitchen		Faucet	<1.0	Pass	Testing Complete
M04417		Kitchen		Faucet	<1.0	Pass	Testing Complete
M04418		Kitchen		Faucet	<1.0	Pass	Testing Complete
M04421	104	Music		Faucet	<1.0	Pass	Testing Complete
M16231	214	Classroom		Faucet	2.1	Pass	Testing Complete
M16232	214	Classroom		Bubbler	1.5	Pass	Testing Complete
M16329	123	Classroom		Bubbler	1.2	Pass	Testing Complete
M41073	231	Office		Faucet	4.7	Pass	Testing Complete
M41079	215	Classroom		Faucet	5.9	Pass	Testing Complete
M41080	223	Classroom		Faucet	4.9	Pass	Testing Complete
M41085	212	Classroom		Faucet	5.2	Pass	Testing Complete
M41086	212	Classroom		Bubbler	<1.0	Pass	Testing Complete
M41087	209	Classroom		Faucet	1.7	Pass	Testing Complete
M41091	208	Classroom		Bubbler	3.3	Pass	Testing Complete
M41094	208	Classroom		Faucet	<1.0	Pass	Testing Complete
M41105	124	Classroom		Faucet	1.0	Pass	Testing Complete

\*ppb = parts per billion

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

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

Follow Up Sample Results for Mill Creek Towne Elementary School (5/8/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	30 Second Draw (PPB)	Status
LW07527	143	Classroom	Faucet	3.9	<1.0	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 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.