



## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

April 24, 2018

**Executive Summary:**  
**Stedwick Elementary School**  
10631 Stedwick Road  
Montgomery Village, MD 20886

Round of Testing:	Initial
# of Outlets Tested:	79
# of Outlets $\geq$ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	20
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Art Room 120 (20.0ppb)

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

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

Classroom 120 (Art Room) – Replace fixture (LW01243), in addition to supply line and valve located under sink



April 24, 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: Stedwick Elementary School  
10631 Stedwick Road  
Montgomery Village, MD 20886

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 the initial and follow-up lead in water testing at Stedwick Elementary School, located at 10631 Stedwick Road in Montgomery Village, MD 20886.

**Scope of Services:**

PSI conducted lead in water testing at Stedwick 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 02/21/18 and 02/22/18 to collect samples from 79 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 4/12/18.

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)
LW01243	Bubbler – Art Room 120	2/22/2018	20.0	4/12/18	<1.0

The initial lead in water sample results (02/22/18) and 30 second follow up results (4/12/18) 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 – Initial Lead in Water Test Summary Table

# ATTACHMENT A

## Stedwick ES Water Test Summary Table

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

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

Initial Sample Results for Stedwick Elementary School (2/22/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01197	314	Classroom		Faucet	10.0	Pass	Testing Complete
LW01199	317	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01200	317	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01201	315	Classroom		Faucet	2.1	Pass	Testing Complete
LW01202	315	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW01203	312	Classroom		Faucet	2.3	Pass	Testing Complete
LW01204	312	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01205	303	Classroom		Faucet	1.3	Pass	Testing Complete
LW01206	301	Classroom		Faucet	1.0	Pass	Testing Complete
LW01207	300A	Computer Lab		Faucet	4.0	Pass	Testing Complete
LW01209	216	Kindergarten		Faucet	1.9	Pass	Testing Complete
LW01210	214	Kindergarten		Faucet	1.4	Pass	Testing Complete
LW01211	212	Kindergarten		Faucet	2.7	Pass	Testing Complete
LW01212	212	Kindergarten		Bubbler - Indoor	1.6	Pass	Testing Complete
LW01213	210	Reading		Faucet	1.9	Pass	Testing Complete
LW01215	208	Break Room		Faucet	<1.0	Pass	Testing Complete
LW01216	208	Break Room		Bubbler - Indoor	1.4	Pass	Testing Complete
LW01217	202	Health Room		Faucet	2.0	Pass	Testing Complete
LW01218	200D	Office Administration		Faucet	<1.0	Pass	Testing Complete
LW01219		Kitchen		Faucet	3.9	Pass	Testing Complete
LW01220		Kitchen		Faucet	2.8	Pass	Testing Complete
LW01221		Kitchen		Faucet	4.1	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01222		Hallway	Next To Gym	Cooler	1.9	Pass	Testing Complete
LW01223		Hallway	Next To 145	Cooler	1.7	Pass	Testing Complete
LW01225		Other (See Location Notes)	Across From 148	Faucet	2.5	Pass	Testing Complete
LW01227	143	Classroom		Faucet	4.2	Pass	Testing Complete
LW01228	139	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01229	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01230	136	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01231	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01232	135	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01233	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01234	129	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01235	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01236	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01237	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01238	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01239	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01240		Hallway	Next To 119	Cooler	<1.0	Pass	Testing Complete
LW01241		Hallway	Next To 119	Cooler	<1.0	Pass	Testing Complete
LW01242	120	Art		Faucet	2.7	Pass	Testing Complete
LW01243	120	Art		Bubbler - Indoor	20.0	Fail	Follow-Up Testing Needed
LW01244	115	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01246	113	Classroom		Faucet	2.8	Pass	Testing Complete
LW01248	111	Classroom		Faucet	1.8	Pass	Testing Complete
LW01250	118	Classroom		Faucet	4.0	Pass	Testing Complete
LW01252	111	Classroom		Faucet	1.4	Pass	Testing Complete
LW01254		Hallway	In Front Of 109	Cooler	<1.0	Pass	Testing Complete
LW01255	103	Classroom		Faucet	11.4	Pass	Testing Complete
LW01256	104	Classroom		Faucet	7.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01257	104	Classroom		Faucet	1.2	Pass	Testing Complete
LW01259	104	Classroom		Bubbler - Indoor	7.9	Pass	Testing Complete
LW01260		Hallway	Across From 101	Cooler	1.3	Pass	Testing Complete
LW01261	101	Classroom		Faucet	19.1	Pass	Testing Complete
LW06569		Hallway	Across From Main Office	Cooler	<1.0	Pass	Testing Complete
LW06575		Hallway	Across From 347	Cooler	<1.0	Pass	Testing Complete
LW06576	347	Office		Faucet	5.4	Pass	Testing Complete
LW06577	345	Classroom		Faucet	1.7	Pass	Testing Complete
LW06578		Hallway	In Front Of 341	Cooler	<1.0	Pass	Testing Complete
LW06579		Hallway	In Front Of 341	Cooler	<1.0	Pass	Testing Complete
LW06580	341	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06581	341	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06582	337	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06584	337	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06585	330	Classroom		Faucet	1.0	Pass	Testing Complete
LW06586	330	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06587	328	Computer Lab		Faucet	6.3	Pass	Testing Complete
LW06588	329	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06589	329	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06590	322	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06591	322	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06592	318	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06593	318	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06594		Hallway	Next To 323	Cooler	<1.0	Pass	Testing Complete
LW06595		Hallway	Next To 323	Cooler	<1.0	Pass	Testing Complete
M01404	216	Kindergarten		Bubbler - Indoor	2.0	Pass	Testing Complete
M01407	214	Kindergarten		Bubbler - Indoor	1.9	Pass	Testing Complete
M01475		Hallway	Across from 31	Cooler	3.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M01476		Hallway	Across from 31	Cooler	1.8	Pass	Testing Complete

\*ppb = parts per billion

**Contractor:** Professional Services Industries, Inc.  
**Certified Laboratory:** Microbac Laboratories, Inc.

Follow Up Sample Results for Stedwick Elementary School (4/12/18)

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
LW01243	123	Art	Bubbler - Indoor	2.4	2.1	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink

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.