



MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

April 24, 2018

Executive Summary:
Takoma Park Elementary School
7511 Holly Avenue
Takoma Park, MD 20912

Round of Testing:	Initial
# of Outlets Tested:	84
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	39.2
Follow-Up Testing Required (Samples \geq 20 ppb):	Classroom 500 (39.2 ppb)

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

Project Status
Testing Complete: Remediation Plan

Classroom 500 – Replace fixture (LW02127), 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: Takoma Park Elementary School
7511 Holly Avenue
Takoma Park, MD 20912

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 Takoma Park Elementary School, located at 7511 Holly Avenue in Takoma Park, MD 20912.

Scope of Services:

PSI conducted lead in water testing at Takoma Park 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 02/13/18 and 02/14/18 to collect samples from 84 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 4/11/18.

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)
LW02127	Classroom 500	2/14/2018	39.2	4/11/18	23.1

The initial lead in water sample results (02/14/18) and 30 second follow up results (4/11/18) 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

Takoma Park ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Takoma Park Elementary School (2/14/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02094	322	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02095	317	Classroom		Faucet	5.1	Pass	Testing Complete
LW02096	314	Classroom		Faucet	2.9	Pass	Testing Complete
LW02097	314	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02098	316	Classroom		Faucet	11.4	Pass	Testing Complete
LW02099	316	Classroom		Bubbler - Indoor	5.7	Pass	Testing Complete
LW02100	315	Classroom		Faucet	4.5	Pass	Testing Complete
LW02101		Hallway	Next To Music Room 313	Cooler	<1.0	Pass	Testing Complete
LW02102	309	Music		Faucet	3.8	Pass	Testing Complete
LW02104		All Purpose Room	Inside Of Multipurpose Room	Faucet	2.1	Pass	Testing Complete
LW02105		Cafeteria		Faucet	3.4	Pass	Testing Complete
LW02106		Cafeteria		Faucet	4.0	Pass	Testing Complete
LW02107		Cafeteria		Faucet	1.8	Pass	Testing Complete
LW02108		Cafeteria		Faucet	2.3	Pass	Testing Complete
LW02109		Cafeteria		Faucet	7.6	Pass	Testing Complete
LW02110		Cafeteria		Icemaker	<1.0	Pass	Testing Complete
LW02111	300D	Work Room		Faucet	2.7	Pass	Testing Complete
LW02112	301	Health Room		Faucet	<1.0	Pass	Testing Complete
LW02113	401	Classroom		Faucet	2.9	Pass	Testing Complete
LW02115	404	Classroom		Faucet	8.6	Pass	Testing Complete
LW02120		Hallway	Across From Media Center	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02121	508	Classroom		Faucet	6.6	Pass	Testing Complete
LW02122	509	Classroom		Faucet	7.4	Pass	Testing Complete
LW02123	509	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW02124	507	Classroom		Faucet	3.6	Pass	Testing Complete
LW02125	507	Classroom		Bubbler - Indoor	3.8	Pass	Testing Complete
LW02126	510	Classroom		Faucet	3.5	Pass	Testing Complete
LW02127	500	Classroom		Faucet	39.2	Fail	Follow-Up Testing Needed
LW02128	500	Classroom		Faucet	2.7	Pass	Testing Complete
LW02129	204	Classroom		Faucet	6.6	Pass	Testing Complete
LW02130	204	Classroom		Cooler	1.5	Pass	Testing Complete
LW02131	202	Classroom		Faucet	2.1	Pass	Testing Complete
LW02132	202	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW02133	202	Classroom		Cooler	1.2	Pass	Testing Complete
LW02134	205	Classroom		Faucet	4.5	Pass	Testing Complete
LW02136		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW02137		Hallway	Across From 128	Cooler	<1.0	Pass	Testing Complete
M08902	318	Classroom		Faucet	1.8	Pass	Testing Complete
M08903	318	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08904	319	Classroom		Faucet	1.0	Pass	Testing Complete
M08905	319	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08906	321	Classroom		Faucet	1.1	Pass	Testing Complete
M08907	321	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08908	322	Classroom		Faucet	<1.0	Pass	Testing Complete
M08910	326	Classroom		Faucet	<1.0	Pass	Testing Complete
M08911	326	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08912	328	Classroom		Faucet	<1.0	Pass	Testing Complete
M08914	328	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M08915	330	Classroom		Faucet	1.0	Pass	Testing Complete
M08916	330	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08917	332	Classroom		Faucet	<1.0	Pass	Testing Complete
M08918	332	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08919	336	Classroom		Faucet	3.2	Pass	Testing Complete
M08920	336	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08924		Hallway	Across from CR 340	Cooler	<1.0	Pass	Testing Complete
M08925		Hallway	Across from CR 340	Cooler	<1.0	Pass	Testing Complete
M08930	340	Classroom		Faucet	<1.0	Pass	Testing Complete
M08931	340	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08934	348	Break Room		Faucet	<1.0	Pass	Testing Complete
M08935	400	Media Center		Faucet	12.3	Pass	Testing Complete
M08936	400D	Media Center	Inside IMC	Faucet	1.8	Pass	Testing Complete
M08937	107	Classroom		Faucet	<1.0	Pass	Testing Complete
M08938	107	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08940	106	Classroom		Faucet	1.1	Pass	Testing Complete
M08941	106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08943	109	Classroom		Faucet	1.1	Pass	Testing Complete
M08944	109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08946	111	Classroom		Faucet	1.1	Pass	Testing Complete
M08947	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08949	113	Classroom		Faucet	<1.0	Pass	Testing Complete
M08950	113	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08953	120	Classroom		Faucet	<1.0	Pass	Testing Complete
M08954	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08956	124	Classroom		Faucet	<1.0	Pass	Testing Complete
M08957	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M08959	126	Classroom		Faucet	<1.0	Pass	Testing Complete
M08960	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08962	128	Classroom		Faucet	<1.0	Pass	Testing Complete
M08963	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08965		Hallway	Across from CR 128	Cooler	<1.0	Pass	Testing Complete
M08967	200	Classroom		Faucet	<1.0	Pass	Testing Complete
M08968	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08971	200A	Classroom	Inside CR 200	Faucet	<1.0	Pass	Testing Complete
M22782	205	Classroom		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 Takoma Park Elementary School (4/11/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	Initial draw (3 rd) (PPB)	30 Second Draw (PPB)	Status
LW02127	500	Classroom	Faucet	13.3	1400	23.1	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.