

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Takoma Park Elementary School**  
**7511 Holly Avenue**  
**Takoma Park, MD 20912**

**Report Date: July 19th, 2023**

## LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the State Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by Inspection Experts Inc. is presented in the table below.

Sampling Date	3/31/23
# of Outlets Tested	45
# of Outlets $\geq$ 5 ppb	2

## NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be shut-down within 24 hours, a follow up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

## HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

## **SOURCES OF HUMAN EXPOSURE TO LEAD**

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass outlets, food, cosmetics, exposure in the workplace and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead containing water this may increase to 40 to 60 percent.

### **TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:**

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

*\*Please note that boiling the water will not reduce lead levels.*

### **ADDITIONAL INFORMATION**

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or [brian\\_a\\_mullikin@mcpsmd.org](mailto:brian_a_mullikin@mcpsmd.org).
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at [www.epa.gov/lead](http://www.epa.gov/lead).
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

*Please refer to the attachment(s) for additional water sampling information.*

### **Attachment(s):**

A - Lead in Water Sample Results Table

**ATTACHMENT A**

**Lead in Water Sample Results Table**

## Sampling Results for Takoma Park ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW02094	In classroom 322	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW02097	In classroom 314	Classroom Combination Drinking Fountain	1.5	Pass	Testing Complete
LW02101	In hallway next to music room 313	Drinking Fountain	1.3	Pass	Testing Complete
LW02105	In cafeteria	Kitchen Sink	4.4	Pass	Testing Complete
LW02106	In cafeteria	Kitchen Sink	2.1	Pass	Testing Complete
LW02107	In cafeteria	Kitchen Sink	1.0	Pass	Testing Complete
LW02108	In cafeteria	Kitchen Sink	1.1	Pass	Testing Complete
LW02109	In kitchen	Kitchen Sink	1.4	Pass	Testing Complete
LW02110	In cafeteria	Ice Machine	<1.0	Pass	Testing Complete
LW02112	In health room 301	Nurses Office Sink	<1.0	Pass	Testing Complete
LW02114	In classroom 401	Classroom Combination Drinking Fountain	2.7	Pass	Testing Complete
LW02116	In classroom 404	Classroom Combination Drinking Fountain	3.0	Pass	Testing Complete
LW02120	In hallway across from media center	Drinking Fountain	<1.0	Pass	Testing Complete
LW02123	In classroom 509	Classroom Combination Drinking Fountain	2.6	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW02128	In classroom 500	Classroom Combination Drinking Fountain	5.2	Fail	Remediation Action Plan
LW02132	In classroom 202	Classroom Combination Drinking Fountain	1.2	Pass	Testing Complete
LW02133	In classroom 202	Drinking Fountain	1.1	Pass	Testing Complete
LW02135	In hallway next to gymnasium	Drinking Fountain	<1.0	Pass	Testing Complete
LW02136	In hallway next to gym	Drinking Fountain	<1.0	Pass	Testing Complete
LW02137	In hallway across from 128	Drinking Fountain	<1.0	Pass	Testing Complete
LW08349	In hallway adjacent to Classroom 407	Drinking Fountain	<1.0	Pass	Testing Complete
M08903	In classroom 318	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08905	In classroom 319	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08907	In classroom 321	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08911	In classroom 326	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08914	In classroom 328	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08916	In classroom 330	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08918	In classroom 332	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08920	In classroom 336	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
M08924	In hallway across from CR 340	Drinking Fountain	<1.0	Pass	Testing Complete
M08925	In hallway across from CR 340	Drinking Fountain	<1.0	Pass	Testing Complete
M08931	In classroom 340	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08934	In break room 348	Teachers Lounge Sink	<1.0	Pass	Testing Complete
M08938	In classroom 107	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08941	In classroom 106	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08944	In classroom 109	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08947	In classroom 111	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08950	In classroom 113	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08954	In classroom 120	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08957	In classroom 124	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08963	In classroom 128	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M08965	In hallway across from CR 128	Drinking Fountain	<1.0	Pass	Testing Complete
M08968	In classroom 200	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M22734	In hallway next to boys	Drinking Fountain	7.0	Fail	Remediation Action Plan
LW09485	HW next to CR 407	Drinking Fountain	<1.0	Pass	Testing Complete

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Takoma Park Elementary School  
7511 Holly Ave.  
Takoma Park, MD 20912

Report Date: April 14th, 2020

## LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/20/2020
# of Outlets Tested	84
# of Outlets $\geq$ 5 ppb	2

## NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

## HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

## **SOURCES OF HUMAN EXPOSURE TO LEAD**

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

### **TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:**

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

*\*Please note that boiling the water will not reduce lead levels.*

### **ADDITIONAL INFORMATION**

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or [brian\\_a\\_mullikin@mcpsmd.org](mailto:brian_a_mullikin@mcpsmd.org).
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at [www.epa.gov/lead](http://www.epa.gov/lead).
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

*Please refer to the attachment(s) for additional water sampling information.*

**Attachment(s)** A – Lead in Water Sample Results Table



**ATTACHMENT A**

**Lead in Water Sample Results Table**

## Sampling Results for Takoma Park ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW02094	In classroom 322	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02096	In classroom 314	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW02097	In classroom 314	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02100	In classroom 315	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW02101	In hallway next to music room 313	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02102	In music 309	Classroom Sink	2.2	Pass	N/A	Testing Complete
LW02104	In all purpose room inside of Multipurpose room	Classroom Sink	1.0	Pass	N/A	Testing Complete
LW02105	In cafeteria	Kitchen Sink	2.8	Pass	N/A	Testing Complete
LW02106	In cafeteria	Kitchen Sink	3.3	Pass	N/A	Testing Complete
LW02107	In cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02108	In cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02110	In cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
LW02111	In work room 300D	Classroom Sink	<1	Pass	N/A	Testing Complete
LW02112	In health room 301	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW02113	In classroom 401	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02114	In classroom 401	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW02116	In classroom 404	Classroom Combination Drinking Fountain	4.7	Pass	N/A	Testing Complete
LW02120	In hallway across from media center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02123	In classroom 509	Classroom Combination Drinking Fountain	6.0	Fail	<1	Remediation Action Plan
LW02124	In classroom 507	Classroom Combination Sink	1.0	Pass	N/A	Testing Complete
LW02126	In classroom 510	Classroom Sink	3.0	Pass	N/A	Testing Complete
LW02127	In classroom 500	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW02128	In classroom 500	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02130	In classroom 204	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02131	In classroom 202	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02132	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02133	In classroom 202	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02134	In classroom 205	Classroom Sink	1.9	Pass	N/A	Testing Complete
LW02135	In hallway next to gymnasium	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW02136	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02137	In hallway across from 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08902	In classroom 318	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08903	In classroom 318	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08904	In classroom 319	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08905	In classroom 319	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08906	In classroom 321	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08907	In classroom 321	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08908	In classroom 322	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08910	In classroom 326	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08911	In classroom 326	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08912	In classroom 328	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08914	In classroom 328	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08915	In classroom 330	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08916	In classroom 330	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08917	In classroom 332	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08918	In classroom 332	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08919	In classroom 336	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08920	In classroom 336	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08924	In hallway across from CR 340	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08925	In hallway across from CR 340	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08930	In classroom 340	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08931	In classroom 340	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08934	In break room 348	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M08936	In media center 400D by media center ie. inside IMC	Classroom Sink	<1	Pass	N/A	Testing Complete
M08937	In classroom 107	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08938	In classroom 107	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08940	In classroom 106	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08941	In classroom 106	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08943	In classroom 109	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08944	In classroom 109	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08946	In classroom 111	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

M08947	In classroom 111	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08949	In classroom 113	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08950	In classroom 113	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08953	In classroom 120	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08954	In classroom 120	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08956	In classroom 124	Classroom Combination Sink	4.2	Pass	N/A	Testing Complete
M08957	In classroom 124	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08959	In classroom 126	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08960	In classroom 126	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08962	In classroom 128	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08963	In classroom 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08965	In hallway across from CR 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08967	In classroom 200	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M08968	In classroom 200	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M08971	In classroom 200A inside CR 200	Classroom Sink	<1	Pass	N/A	Testing Complete
M22734	In hallway next to boys	Drinking Fountain	<1	Pass	N/A	Testing Complete
M22782	In classroom 205	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02109	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M08935	In media center 400	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW08349	In hallway adjacent to Classroom 407	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02115	In Classroom 404	Classroom Combination Sink	5.4	Fail	<1	Remediation Action Plan
LW02122	In Classroom room 509	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW02129	In Classroom 204	Classroom Sink	3.2	Pass	N/A	Testing Complete



**MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER  
POST-REMEDATION FOLLOW-UP TESTING 2019**

August 29, 2019

**Executive Summary:**

**Takoma Park Elementary School**

7511 Holly Avenue, Takoma Park, MD 20912

<b>Round of Testing:</b>	<b>Post-Remediation Follow-Up</b>
Sample Date	02/06/2019
# of Outlets Tested:	1
# of Outlets $\geq$ 5 ppb:	0
Low Value (ppb):	3.4
High Value (ppb):	3.4

**Project Status**

**Testing Complete:** Post-remediation follow-up testing completed for following rooms:

Classroom 500: Outlet (LW02127) will be placed back into service



August 29, 2019

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 Post-remediation follow-up Testing Service

Location: Takoma Park Elementary School,  
7511 Holly Avenue,  
Takoma Park, MD 20912

Dear Mr. Mullikin:

Intertek-PSI Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation lead in water testing at Takoma Park Elementary School, located at 7511 Holly Avenue, Takoma Park, MD 20912.

**Scope of Services:**

One (1) drinking water outlet was remediated at Takoma Park Elementary School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). Intertek-PSI conducted lead in water post-remediation follow-up testing in accordance with the Maryland Code of Regulations (COMAR) 26.16.07 - Lead in Drinking Water—Public and Nonpublic Schools.

Intertek-PSI visited the site on 02/05/2019 and 02/06/2019 to collect post-remediation follow-up sample from 1 drinking water outlet that had been replaced. 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:**

The initial, flush, and post-remediation results are highlighted in the summary table below:



Barcode ID	Room Number	Location	Notes	Equipment Type	Initial (ppb)	Flush (ppb)	Post-remediation follow-up (ppb)	Post-remediation follow-up Pass/Fail	Status
LW02127	500	Classroom		Faucet	39.2	13.3	3.4	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service

**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. The Environmental Protection Agency (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.

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,

**INTERTEK-PSI**

Nan Lin  
Department Manager, Environmental Services  
[nan.lin@intertek.com](mailto:nan.lin@intertek.com)



## 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  
[Nand.Kaushik@psiusa.com](mailto:Nand.Kaushik@psiusa.com)

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 <sup>nd</sup> ) (PPB)	Initial draw (3 <sup>rd</sup> ) (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.