



## **MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018**

### **Executive Summary:**

#### **Judith A. Resnik Elementary School**

7301 Hadley Farms Drive  
Gaithersburg, MD 20879

Date of Test Report:	5/16/2018
Round of Testing:	Initial
# of Outlets Tested:	83
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	7.9

### **Project Status**

**Initial testing complete:** All results less than 20 ppb.



May 16, 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: Judith A. Resnik Elementary School  
7301 Hadley Farms Drive  
Gaithersburg, MD 20876

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 Judith A. Resnik Elementary School, located at 7301 Hadley Farms Drive, Gaithersburg, MD 20876.

**Scope of Services:**

PSI conducted lead in water testing at Judith A. Resnik 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 3/22/18 and 3/23/18 to collect samples from 83 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.

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 were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 3/23/18 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.**

A handwritten signature in black ink that reads "Nand Kaushik".

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

## Lead in Water Test Summary Table

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

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

### Sample Results for Judith A. Resnik Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01756	K1	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW01757	K1	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01758	K1	Kindergarten		Faucet	1.1	Pass	Testing Complete
LW01759	K3	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW01760	K3	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01761	K3	Kindergarten		Faucet	7.6	Pass	Testing Complete
LW01762		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01763		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01764	35	Therapy		Faucet	4.0	Pass	Testing Complete
LW01765	30	Classroom		Faucet	1.1	Pass	Testing Complete
LW01766	30	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01767	26	Classroom		Faucet	2.9	Pass	Testing Complete
LW01768	26	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW01769	24	Classroom		Faucet	1.6	Pass	Testing Complete
LW01770	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01771	22	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW01772	14	Classroom		Faucet	1.7	Pass	Testing Complete
LW01773	14	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW01774	12	Classroom		Faucet	1.2	Pass	Testing Complete
LW01775	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01776	8	Classroom		Faucet	1.7	Pass	Testing Complete
LW01777	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01778	7	Classroom		Faucet	1.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01779	7	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW01780	5	Classroom		Faucet	1.1	Pass	Testing Complete
LW01781	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01782	K2	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW01783	K2	Kindergarten		Faucet	1.5	Pass	Testing Complete
LW01784	K2	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01785	K4	Kindergarten		Faucet	2.7	Pass	Testing Complete
LW01786	K4	Kindergarten		Faucet	1.5	Pass	Testing Complete
LW01787	K4	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01788	K5	Kindergarten		Faucet	2.4	Pass	Testing Complete
LW01789	K5	Kindergarten		Faucet	2.1	Pass	Testing Complete
LW01790	K5	Kindergarten		Bubbler - Indoor	1.3	Pass	Testing Complete
LW01791		Kitchen		Faucet	1.0	Pass	Testing Complete
LW01792		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01793	33	Classroom		Faucet	2.9	Pass	Testing Complete
LW01794	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01795	40	Classroom		Faucet	2.0	Pass	Testing Complete
LW01796	40	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW01797	9	Classroom		Faucet	2.8	Pass	Testing Complete
LW01798	9	Classroom		Bubbler - Indoor	2.4	Pass	Testing Complete
LW01799	6	Classroom		Faucet	1.3	Pass	Testing Complete
LW01800	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01801	HR	Health Room		Faucet	1.4	Pass	Testing Complete
LW01802	HR	Health Room		Faucet	<1.0	Pass	Testing Complete
LW01808	3	Classroom		Faucet	2.1	Pass	Testing Complete
LW01809	3	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M35851		Material Prep Media Center		Faucet	1.4	Pass	Testing Complete
M35859		Work Room	Near Admin	Faucet	3.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M35866	4	Classroom		Faucet	1.1	Pass	Testing Complete
M35867	4	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M35894	15	Classroom		Faucet	1.0	Pass	Testing Complete
M35895	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35896	16	Classroom		Faucet	<1.0	Pass	Testing Complete
M35897	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35898	17	Classroom		Faucet	<1.0	Pass	Testing Complete
M35899	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35900	19	Classroom		Faucet	4.1	Pass	Testing Complete
M35901	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35904	41	Classroom		Faucet	1.9	Pass	Testing Complete
M35905	41	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
M35908	42	Classroom		Faucet	<1.0	Pass	Testing Complete
M35909	42	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35910	43	Classroom		Faucet	2.1	Pass	Testing Complete
M35911	43	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M35914	23	Classroom		Faucet	1.8	Pass	Testing Complete
M35915	23	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M35925		Work Room	Next to CR 28	Faucet	<1.0	Pass	Testing Complete
M35929	27	ESOL		Faucet	3.2	Pass	Testing Complete
M35930	27	ESOL		Bubbler - Indoor	1.4	Pass	Testing Complete
M35931	29	Classroom		Faucet	1.5	Pass	Testing Complete
M35932	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M35935	31	ESOL		Faucet	6.9	Pass	Testing Complete
M35936	31	ESOL		Bubbler - Indoor	5.9	Pass	Testing Complete
M35937	32	Classroom		Faucet	3.9	Pass	Testing Complete
M35938	32	Classroom		Bubbler - Indoor	7.9	Pass	Testing Complete
M35940	33	Therapy		Bubbler - Indoor	1.6	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M35948		Hallway	Near Storage 3	Cooler	<1.0	Pass	Testing Complete
M35954		Hallway	Left Of 137	Faucet	<1.0	Pass	Testing Complete
M35957	36	Inst Music		Faucet	2.6	Pass	Testing Complete
M35996	39	Music		Faucet	2.2	Pass	Testing Complete

\*ppb = parts per billion