

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Judith A. Resnik Elementary School
7301 Hadley Farms Drive
Gaithersburg, MD 20879**

Report Date: April 8th, 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	2/4/2020
# of Outlets Tested	93
# of Outlets \geq 5 ppb	5

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.
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.
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 Judith Resnik ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW01756	In kindergarten K1	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW01757	In kindergarten K1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01758	In kindergarten K1	Classroom Sink	8.9	Fail	<1	Remediation Action Plan
LW01759	In kindergarten K3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01760	In kindergarten K3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01762	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01763	In kitchen	Kitchen Sink	4.0	Pass	N/A	Testing Complete
LW01764	In therapy 35	Classroom Sink	3.2	Pass	N/A	Testing Complete
LW01765	In classroom 30	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW01766	In classroom 30	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing Complete
LW01767	In classroom 26	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01768	In classroom 26	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01769	In classroom 24	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01770	In classroom 24	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01771	In classroom 22	Classroom Combination Drinking Fountain	3.5	Pass	N/A	Testing Complete
LW01772	In classroom 14	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW01773	In classroom 14	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing Complete
LW01774	In classroom 12	Classroom Combination Sink	4.5	Pass	N/A	Testing Complete
LW01775	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01776	In classroom 8	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW01777	In classroom 8	Classroom Combination Drinking Fountain	1.0	Pass	N/A	Testing Complete
LW01778	In classroom 7	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01779	In classroom 7	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW01780	In classroom 5	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW01781	In classroom 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01782	In kindergarten K2	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01783	In kindergarten K2	Classroom Combination Sink	2.3	Pass	N/A	Testing Complete
LW01785	In kindergarten K4	Classroom Sink	8.3	Fail	1.2	Remediation Action Plan
LW01786	In kindergarten K4	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW01787	In kindergarten K4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01788	In kindergarten K5	Classroom Sink	2.1	Pass	N/A	Testing Complete
LW01789	In kindergarten K5	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW01790	In kindergarten K5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01791	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01792	In kitchen	Kitchen Sink	1.5	Pass	N/A	Testing Complete
LW01793	In classroom 33	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01794	In classroom 22	Classroom Combination Sink	2.1	Pass	N/A	Testing Complete
LW01795	In classroom 40	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW01796	In classroom 40	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01797	In classroom 9	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW01798	In classroom 9	Classroom Combination Drinking Fountain	2.9	Pass	N/A	Testing Complete
LW01799	In classroom 6	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW01800	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01801	In health room HR	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW01802	In health room HR	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW01808	In classroom 3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01809	In classroom 3	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW11622	In administration inside of Bright Eyes center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11623	In classroom inside of Bright Eyes center	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11624	In classroom inside of Bright Eyes center	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11625	In classroom inside of Bright Eyes center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11626	In kitchen inside of Bright Eyes center	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW11627	In kitchen inside of Bright Eyes center	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW11628	In kitchen inside of Bright Eyes center	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW11629	In day care inside of Bright Eyes center	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11630	In day care inside of Bright Eyes center	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11631	In day care inside of Bright Eyes center	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11856	In hallway by main entrance	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11857	In kitchen inside of Hadley Fa center	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW11867	In kitchen inside of Hadley Fa center	Kitchen Sink	<1	Pass	N/A	Testing Complete
M35851	In material prep by media center	Classroom Sink	<1	Pass	N/A	Testing Complete

M35859	In work room near admin	Teachers Lounge Sink	1.4	Pass	N/A	Testing Complete
M35866	In classroom 4	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35867	In classroom 4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35894	In classroom 15	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35895	In classroom 15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35896	In classroom 16	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35897	In classroom 16	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35898	In classroom 17	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M35899	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35900	In classroom 19	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
M35901	In classroom 19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35904	In classroom 41	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35905	In classroom 41	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
M35908	In classroom 42	Classroom Combination Sink	3.5	Pass	N/A	Testing Complete
M35909	In classroom 42	Classroom Combination Drinking Fountain	3.3	Pass	N/A	Testing Complete
M35910	In classroom 43	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M35911	In classroom 43	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35914	In classroom 23	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
M35915	In classroom 23	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
M35925	In work room next to CR 28	Classroom Sink	<1	Pass	N/A	Testing Complete
M35929	In ESOL 27	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M35930	In ESOL 27	Classroom Combination Drinking Fountain	33.2	Fail	11.7	Remediation Action Plan
M35931	In classroom 29	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
M35932	In classroom 29	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M35937	In classroom 32	Classroom Combination Sink	12.7	Fail	7.5	Remediation Action Plan
M35948	In hallway across from storage 3	Drinking Fountain	<1	Pass	N/A	Testing Complete
M35954	In all purpose room behind double doors	Kitchen Sink	<1	Pass	N/A	Testing Complete
M35957	In classroom 36	Classroom Sink	17.6	Fail	1.5	Remediation Action Plan
M35996	In classroom 39	Classroom Sink	2.3	Pass	N/A	Testing Complete
LW08282	In hallway adjacent to multipurpose room 37	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08283	In hallway adjacent to multipurpose room 37	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08049	In classroom inside of Bright eyes center	Drinking Fountain	<1	Pass	N/A	Testing Complete



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

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