



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:

William B. Gibbs Jr. Elementary School

12615 Royal Crown Drive,
Germantown, MD 20876

Date of Test Report:	5/17/2018
Round of Testing:	Initial
# of Outlets Tested:	100
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	19.1

Project Status

Initial testing complete: All results less than 20 ppb.



May 17, 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: William B. Gibbs Jr. Elementary School
12615 Royal Crown Drive,
Germantown, 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 William B. Gibbs Jr. Elementary School, located at 12615 Royal Crown Drive, Germantown, MD 20876.

Scope of Services:

PSI conducted lead in water testing at William B. Gibbs Jr. 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 4/16/18 and 4/17/18 to collect samples from 100 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 4/17/18 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 William B. Gibbs Jr. Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08597	125	Classroom		Faucet	1.5	Pass	Testing Complete
LW08598	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08599	140	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08600	140	Classroom		Faucet	1.6	Pass	Testing Complete
LW08601	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08602	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08603	146	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08604	146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08605	150	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08619	154	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08620	154	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08621	158	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08622	158	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08623	160	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08624	160	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08627	168	Conference Room		Faucet	<1.0	Pass	Testing Complete
LW08628	172	Classroom		Faucet	1.9	Pass	Testing Complete
LW08629	135	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08630	178	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08631	178	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08632	139	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08633	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08634		Hallway	In Front Of 180	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08635		Hallway	In Front Of 180	Cooler	<1.0	Pass	Testing Complete
LW08636	180	Classroom		Faucet	1.2	Pass	Testing Complete
LW08637	180	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08638	100C	Mail Room Administration		Faucet	<1.0	Pass	Testing Complete
LW08639	106	Break Room		Faucet	1.2	Pass	Testing Complete
LW08640	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW08641	111	Work Room Media Center		Faucet	6.4	Pass	Testing Complete
LW08642		Hallway	Next To 112	Cooler	<1.0	Pass	Testing Complete
LW08643		Hallway	Next To 112	Cooler	<1.0	Pass	Testing Complete
LW08644	192	Art		Faucet	<1.0	Pass	Testing Complete
LW08645	218	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08646	222	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08647	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08648	224	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08649	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08650	228	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08651	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08652	232	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08653	234	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08654	238	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08655	240	Classroom		Faucet	1.4	Pass	Testing Complete
LW08656	244	Classroom		Faucet	1.2	Pass	Testing Complete
LW08657	246	Classroom		Faucet	1.1	Pass	Testing Complete
LW08658	246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08659	231	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08660	250	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08661	250	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08662	235	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08671	192	Art		Faucet	4.2	Pass	Testing Complete
LW08672	192	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08673		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW08674		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW08675	201	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW08676		Hallway	Next To 209	Cooler	<1.0	Pass	Testing Complete
LW08677		Hallway	Next To 209	Cooler	<1.0	Pass	Testing Complete
LW08678	212	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08679	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08680	213	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08681	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08682	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08683	217	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08870		Hallway	In Front Of 126	Cooler	<1.0	Pass	Testing Complete
LW08871		Hallway	In Front Of 126	Cooler	<1.0	Pass	Testing Complete
LW08872	126	Break Room		Faucet	<1.0	Pass	Testing Complete
LW08873	126	Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08874	134	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08875	134	Classroom		Faucet	19.1	Pass	Testing Complete
LW08876	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08878	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M50247	188	Music		Faucet	<1.0	Pass	Testing Complete
M50248	188	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50249	186	Music		Faucet	1.1	Pass	Testing Complete
M50271	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50285	150	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50300	168	Conference Room		Bubbler - Indoor	1.1	Pass	Testing Complete
M50303	172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M50305	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50306	174	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50307	174	Classroom		Faucet	<1.0	Pass	Testing Complete
M50334	110	Kitchen		Faucet	1.3	Pass	Testing Complete
M50335	110	Kitchen		Faucet	<1.0	Pass	Testing Complete
M50336	110	Kitchen		Faucet	<1.0	Pass	Testing Complete
M50347	102D	Health Room		Faucet	2	Pass	Testing Complete
M50362	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50365	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50367	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50376	232	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50377	234	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50380	238	Lab		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50382	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50385	244	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50387	231	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50390	235	Classroom		Bubbler	<1.0	Pass	Testing Complete
M50394		Hallway	Hallway Next to 239	Cooler	<1.0	Pass	Testing Complete
M50395		Hallway	Hallway Next to 239	Cooler	<1.0	Pass	Testing Complete
M50404	254	Speech Therapy		Faucet	1.6	Pass	Testing Complete
M50523	126	Break Room		Faucet	3.4	Pass	Testing Complete

*ppb = parts per billion