



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
College Garden Elementary School
1700 Yale Place,
Rockville, MD 20850

Date of Test Report:	6/8/2018
Round of Testing:	Initial
# of Outlets Tested:	90
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	4.0

Project Status

Initial testing complete: All results less than 20 ppb.



June 8, 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: College Garden Elementary School
1700 Yale Place,
Rockville, MD 20850

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 College Gardens Elementary School, located at 1700 Yale Place, Rockville, MD 20850.

Scope of Services:

PSI conducted lead in water testing at College Gardens 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 5/1/18 and 5/2/18 to collect samples from 90 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 5/2/18 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 College Garden Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07709	A112A	Kitchen		Faucet	4.0	Pass	Testing Complete
M08144	B204	Classroom		Faucet	<1.0	Pass	Testing Complete
M08145	B204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08146	B202	Classroom		Faucet	1.2	Pass	Testing Complete
M08147	B202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08149	B208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08152	B208	Classroom		Faucet	1.4	Pass	Testing Complete
M08159	C216	Classroom		Faucet	1.0	Pass	Testing Complete
M08160	C216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08161	C220	Classroom		Faucet	<1.0	Pass	Testing Complete
M08162	C220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08163	C222	Classroom		Faucet	<1.0	Pass	Testing Complete
M08165	C222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08166	C226	Classroom		Faucet	1.2	Pass	Testing Complete
M08167	C226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08177	C221	Office		Faucet	<1.0	Pass	Testing Complete
M08178	D240	Classroom		Faucet	<1.0	Pass	Testing Complete
M08179	D240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08180	D242	Classroom		Faucet	1.5	Pass	Testing Complete
M08181	D242	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08182	D246	Classroom		Faucet	<1.0	Pass	Testing Complete
M08183	D246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08184	D250	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08185	D250	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08193		Hallway	Next to C217	Cooler	<1.0	Pass	Testing Complete
M08194		Hallway	Next to C217	Cooler	<1.0	Pass	Testing Complete
M08195	D229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08196	D229	Classroom		Faucet	1.8	Pass	Testing Complete
M08197	D233	Classroom		Faucet	<1.0	Pass	Testing Complete
M08198	D233	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08199	D235	Classroom		Faucet	1.3	Pass	Testing Complete
M08200	D235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08201	D239	Reading		Faucet	<1.0	Pass	Testing Complete
M08202	D239	Reading		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08203		Hallway	Across From Stair 2	Cooler	<1.0	Pass	Testing Complete
M08204		Hallway	Across From Stair 2	Cooler	<1.0	Pass	Testing Complete
M08205	B201	Classroom		Faucet	<1.0	Pass	Testing Complete
M08209	B201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08210	B205	Classroom		Faucet	<1.0	Pass	Testing Complete
M08211	B205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08213	B207	Classroom		Faucet	<1.0	Pass	Testing Complete
M08214	B207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08215	A112A	Kitchen		Faucet	1.1	Pass	Testing Complete
M08216	A112A	Kitchen		Faucet	1.1	Pass	Testing Complete
M08217	A112A	Kitchen		Faucet	1.2	Pass	Testing Complete
M08241	A104	Health		Faucet	<1.0	Pass	Testing Complete
M08245	A100G	Work Room		Faucet	<1.0	Pass	Testing Complete
M08248	A101	Break Room		Faucet	<1.0	Pass	Testing Complete
M08249	A105	Resource		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08250	A105	Resource		Faucet	1.1	Pass	Testing Complete
M08251		Hallway	Next to A112 APR	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08252		Hallway	Next to A112 APR	Cooler	<1.0	Pass	Testing Complete
M08262	B118	Inst Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08263	B118	Inst Music		Faucet	2.2	Pass	Testing Complete
M08270	B128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08271	B128	Classroom		Faucet	<1.0	Pass	Testing Complete
M08278		Hallway	Next to C141	Cooler	<1.0	Pass	Testing Complete
M08279		Hallway	Next to C141	Cooler	<1.0	Pass	Testing Complete
M08280	C134	Classroom		Faucet	<1.0	Pass	Testing Complete
M08281	C134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08282	C136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08283	C136	Classroom		Faucet	1.8	Pass	Testing Complete
M08284	C140	Classroom		Faucet	1.3	Pass	Testing Complete
M08285	C140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08286	C142	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08287	C142	Classroom		Faucet	<1.0	Pass	Testing Complete
M08289	C146	Classroom		Faucet	1.6	Pass	Testing Complete
M08290	C146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08293	D148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08294	D148	Classroom		Faucet	<1.0	Pass	Testing Complete
M08297	D147	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08298	D147	Classroom		Faucet	1.7	Pass	Testing Complete
M08299	D156	Classroom		Faucet	1.2	Pass	Testing Complete
M08300	D156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08302	D162	Classroom		Faucet	<1.0	Pass	Testing Complete
M08303	D162	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M08305	D151	Classroom		Faucet	1.0	Pass	Testing Complete
M08306	D151	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08307	D164	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08308	D164	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M08310	D153	Classroom		Faucet	1.0	Pass	Testing Complete
M08311	D153	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08312	D172	Classroom		Faucet	<1.0	Pass	Testing Complete
M08313	D172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08315	D157	Classroom		Faucet	<1.0	Pass	Testing Complete
M08316	D157	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08321		Hallway	Next to A167	Cooler	<1.0	Pass	Testing Complete
M08322		Hallway	Next to A167	Cooler	<1.0	Pass	Testing Complete
M08324	C130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08325	C130	Classroom		Faucet	1.4	Pass	Testing Complete

*ppb = parts per billion