



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
Clarksburg Elementary School
13530 Redgrave Pl,
Clarksburg, MD 20871

Date of Test Report:	5/11/2018
Round of Testing:	Initial
# of Outlets Tested:	46
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	19.5

Project Status

Initial testing complete: All results less than 20 ppb.



May 11, 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: Clarksburg Elementary School
13530 Redgrave Pl,
Clarksburg, MD 20871

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 Clarksburg Elementary School, located at 13530 Redgrave Pl, Clarksburg, MD 20871.

Scope of Services:

PSI conducted lead in water testing at Clarksburg 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 46 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.

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 Clarksburg Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07485	2	Classroom		Bubbler - Indoor	07.60	Pass	Testing Complete
LW07486	1	Classroom		Faucet	01.30	Pass	Testing Complete
LW07487	1	Classroom		Bubbler - Indoor	02.30	Pass	Testing Complete
LW07488		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
LW07541	7	Classroom		Faucet	1.6	Pass	Testing Complete
LW07542	7	Classroom		Bubbler - Indoor	10.0	Pass	Testing Complete
LW07543	6	Classroom		Faucet	3.2	Pass	Testing Complete
LW07544	6	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW07545		Work Room Administration		Faucet	16.6	Pass	Testing Complete
LW07546		Health Room		Faucet	1.9	Pass	Testing Complete
LW07547		Break Room		Faucet	1.1	Pass	Testing Complete
LW07548		Kitchen		Faucet	1.5	Pass	Testing Complete
LW07549		Hallway	Across from APR	Cooler	<1.0	Pass	Testing Complete
LW07550	5	Classroom		Faucet	3.2	Pass	Testing Complete
LW07551	5	Classroom		Bubbler - Indoor	7.7	Pass	Testing Complete
LW07556	16	Classroom		Bubbler - Indoor	3.8	Pass	Testing Complete
LW07557	14	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07558	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07559	13	Classroom		Faucet	3.1	Pass	Testing Complete
LW07560	13	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW07561	10	Classroom		Faucet	4.2	Pass	Testing Complete
LW07562	10	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW07563	9	Classroom		Faucet	4.4	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07565		Hallway	In Front of Main Office	Cooler	<1.0	Pass	Testing Complete
M25177		Kitchen		Faucet	6.6	Pass	Testing Complete
M25178		Kitchen		Faucet	2.4	Pass	Testing Complete
M25179		Kitchen		Faucet	1.5	Pass	Testing Complete
M25189	4	Classroom		Faucet	2.5	Pass	Testing Complete
M25190	4	Classroom		Bubbler - Indoor	3.2	Pass	Testing Complete
M25191	3	Classroom		Faucet	8.9	Pass	Testing Complete
M25193	2	Classroom		Faucet	4.5	Pass	Testing Complete
M25203		Music		Faucet	19.5	Pass	Testing Complete
M25204		Music		Bubbler - Indoor	1.1	Pass	Testing Complete
M25208		Resource		Faucet	4.0	Pass	Testing Complete
M25209		Resource		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25210		Office Media Center		Faucet	5.0	Pass	Testing Complete
M25216		Reading		Faucet	7.0	Pass	Testing Complete
M25218	8	Classroom		Faucet	1.8	Pass	Testing Complete
M25219	8	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
M25231	12	Classroom		Faucet	2.0	Pass	Testing Complete
M25232	12	Classroom		Bubbler - Indoor	3.9	Pass	Testing Complete
M25236	15	Classroom		Faucet	9.5	Pass	Testing Complete
M25237	15	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
M25241	16	Classroom		Faucet	3.7	Pass	Testing Complete
M25246	11	Classroom		Faucet	3.1	Pass	Testing Complete
M25247	11	Classroom		Bubbler - Indoor	3.4	Pass	Testing Complete

*ppb = parts per billion