



MCPS Lead in Water Testing

Executive Summary: Col. E. Brooke Lee Middle School

Date of Test Report:	1/23/18
Round of Testing:	Initial
# of Outlets Tested:	28
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<2
High Value (ppb):	16.4

Project Status

Initial testing complete: All results less than 20 ppb



23 January 2018

Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Gaithersburg, MD 20879

Re: Lead in Water Testing Service

Location: Col. E. Brooke Lee Middle School
11800 Monticello Avenue
Silver Spring, MD 20902

Dear Mr. Mullikin:

Leidos is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Col. E. Brooke Lee Middle School, located at 11800 Monticello Avenue in Silver Spring, MD 20902.

Scope of Services:

Leidos conducted lead in water testing at the subject site to evaluate lead levels relative to the US EPA's recommended action level of 20 parts per billion (ppb). At this level EPA recommends that schools take action to reduce the level. Leidos conducted the lead testing in accordance with EPA and State of Maryland House Bill (HB) 270 regulations. Maryland HB 270 requires periodic testing for the presence of lead in drinking water outlets 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 [here](#).

Leidos visited the site on two dates (12/19/17 and 1/11/18) and collected samples from 28 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Lead in Drinking Water—Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07. .

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

The lead in water samples results < 20 ppb for sample collection dates 12/19/17 and 1/11/18 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 accumulate in our bodies over time, where it is stored in bones along with calcium. During pregnancy, lead is released from bones as maternal calcium and is used to help form the bones of the fetus.

Lead has been historically used in plumbing, paint and other building materials, such as old deteriorated paint, lead in the air from industrial emissions, lead in the soil from cars using leaded gasoline and consumer products (imported candy, medicines, toys, dishes, etc.), this guideline pertains to reducing lead in potable drinking water at MCPS facilities. Most lead gets 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, known as corrosion, directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's contained more lead than new materials, the amount of lead in the drinking water cannot be predicted by the age of building.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure, such as 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.

Sincerely,

A handwritten signature in cursive script that reads "John Whelpley".

John Whelpley, P.E.
Leidos

Attachments: A- Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: Leidos

Certified Laboratory: WSSC

Sample results for Col. E. Brooke Lee MS

Equipment Barcode	Room, Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M31877	Kitchen		Steamer	16.4	Pass	Testing Complete
M31871	Kitchen		Faucet	6.1	Pass	Testing Complete
M31872	Kitchen		Faucet	2.7	Pass	Testing Complete
M31873	Kitchen		Faucet	4.4	Pass	Testing Complete
M31875	Kitchen	Near freezer	Faucet	4.2	Pass	Testing Complete
M31874	Kitchen	Near ice machine	Faucet	8.1	Pass	Testing Complete
M31866	Kitchen	Near refrigerator	Faucet	4.9	Pass	Testing Complete
M31876	Kitchen		Ice Machine	<2	Pass	Testing Complete
M31864	Cafeteria		Cooler	<2	Pass	Testing Complete
M31863	Hallway	Outside cafeteria	Cooler	<2	Pass	Testing Complete
M31885	Health Room		Faucet	5.7	Pass	Testing Complete
M31883	Hallway	Outside main office	Cooler	<2	Pass	Testing Complete
M31852	Hallway	Across from 101	Cooler	<2	Pass	Testing Complete
M31853	Hallway	Across from 101	Cooler	<2	Pass	Testing Complete
M31855	Hallway	Across from 111	Cooler	<2	Pass	Testing Complete
M31857	Hallway	Left of 113	Cooler	<2	Pass	Testing Complete
M31852	Copy Room		Faucet	3.6	Pass	Testing Complete
M31862	Hallway	Outside boys locker room	Cooler	<2	Pass	Testing Complete
M31848	Hallway	Outside 205A	Cooler	6.6	Pass	Testing Complete
M31849	205A , Staff Lounge		Bubbler	<2	Pass	Testing Complete
M31841	Hallway	Near 2nd floor staff bathroom	Cooler	<2	Pass	Testing Complete

Equipment Barcode	Location Description	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M31850	2nd Floor, Staff Lounge		Faucet	4	Pass	Testing Complete
M31844	Hallway	Across from 210	Cooler	<2	Pass	Testing Complete
M31847	Hallway	Right of 212	Cooler	<2	Pass	Testing Complete
M31878	Girls Locker Room		Cooler	<2	Pass	Testing Complete
M31886	Boys Locker Room		Cooler	<2	Pass	Testing Complete
M33028	Main Office	Admin area	Faucet	4.4	Pass	Testing Complete
M33029	101		Faucet	15.1	Pass	Testing Complete

*ppb = parts per billion