



**MONTGOMERY COUNTY PUBLIC SCHOOLS
LEAD IN DRINKING WATER TESTING 2018**

Executive Summary:
Forest Oak Middle School
651 Saybrooke Oaks Boulevard
Gaithersburg, MD 20877

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	48
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	9.1

Project Status

Initial testing complete: All results less than 20 ppb.



March 12, 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: Forest Oak Middle School
651 Saybrooke Oaks Boulevard
Gaithersburg, MD 20877

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 Forest Oak Middle School, located at 651 Saybrooke Oaks Boulevard, Gaithersburg, MD 20877.

Scope of Services:

PSI conducted lead in water testing at Forest Oak Middle 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 1/29/18, 01/30/18, and 01/31/18 to collect samples from 48 drinking 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 01/30/18 and 01/31/18 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 Forest Oak Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00066	B101	Cafeteria	Dining Hall	Cooler	<1.0	Pass	Testing Complete
LW00067	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00068	B134	Kitchen Cafeteria		Icemaker	1.6	Pass	Testing Complete
LW00069	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00070	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00071	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00072	B134	Kitchen Cafeteria		Faucet	1.8	Pass	Testing Complete
LW00073	B134	Kitchen Cafeteria		Faucet	2.8	Pass	Testing Complete
LW00074	B125	Other (See Location Notes) Cafeteria	Next To B134	Faucet	<1.0	Pass	Testing Complete
LW00075	C157	Security		Faucet	2.3	Pass	Testing Complete
LW00076		Hallway	Between C154 & C157	Cooler	<1.0	Pass	Testing Complete
LW00077		Hallway	Between C154 & C157	Cooler	<1.0	Pass	Testing Complete
LW00078		Hallway	Across From A108	Cooler	<1.0	Pass	Testing Complete
LW00079	A105	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW00080	A105	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW00081	A124	Locker Room - Girls	Across From A126	Cooler	<1.0	Pass	Testing Complete
LW00082		Hallway	Across From E125	Cooler	<1.0	Pass	Testing Complete
LW00083	E119	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00084	E118	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00085	C146	Work Room		Faucet	<1.0	Pass	Testing Complete
LW00086		Hallway	Across From E106	Cooler	<1.0	Pass	Testing Complete
LW00087	D110	Lab	Inside Of D108	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00088	D113	Other (See Location Notes)	Applied Technology	Cooler	<1.0	Pass	Testing Complete
LW00089	D114	Home Economics		Faucet	1.2	Pass	Testing Complete
LW00090	D114	Home Economics		Faucet	1.8	Pass	Testing Complete
LW00091	D114	Home Economics		Faucet	2.6	Pass	Testing Complete
LW00092	D114	Home Economics		Faucet	9.1	Pass	Testing Complete
LW00093	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00094	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00095	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00096	D114	Home Economics		Faucet	4.3	Pass	Testing Complete
LW00097	C121	Break Room		Faucet	<1.0	Pass	Testing Complete
LW00098	C133	Work Room		Faucet	<1.0	Pass	Testing Complete
LW00099		Administration	Across From C107	Cooler	<1.0	Pass	Testing Complete
LW00100		Administration	Across From C107	Cooler	<1.0	Pass	Testing Complete
LW00101	C137	Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW00102		Hallway	Across From E227	Cooler	<1.0	Pass	Testing Complete
LW00103	E224	Team Room		Faucet	1.4	Pass	Testing Complete
LW00104	E223	Team Room		Faucet	1	Pass	Testing Complete
LW00105		Hallway	Across From E208	Cooler	<1.0	Pass	Testing Complete
LW00106	D219	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00107	D218	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00108		Hallway	Across From D229	Cooler	<1.0	Pass	Testing Complete
LW00109		Hallway	Across From 207	Cooler	<1.0	Pass	Testing Complete
LW00599	D119	Classroom	Special Education	Faucet	<1.0	Pass	Testing Complete
M16210	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M16211	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M45802	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion