



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary: Oakland Terrace Elementary School

2720 Plyers Mill Road
Silver Spring, MD 20902

Date of Test Report:	03/20/2018
Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	4.9

Project Status

Initial testing complete: All results less than 20 ppb.



March 20, 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: Oakland Terrace Elementary School
2720 Plyers Mill Road
Silver Spring, MD 20902

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 Oakland Terrace Elementary School, located at 2720 Plyers Mill Road, Silver Spring, MD 20902.

Scope of Services:

PSI conducted lead in water testing at Oakland Terrace 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 02/20/18, 02/21/18, and 02/22/18 to collect samples from 80 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 02/21/18 and 02/22/18 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
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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 Oakland Terrace Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00447	9	Art		Faucet	<1.0	Pass	Testing Complete
LW00448	9	Art		Faucet	<1.0	Pass	Testing Complete
LW00451	9	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06505	2	Classroom		Faucet	1.1	Pass	Testing Complete
LW06506	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06507	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06508	7	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06509	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06510	13	Classroom		Faucet	1.4	Pass	Testing Complete
LW06511	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06512	12	Classroom		Faucet	1.7	Pass	Testing Complete
LW06513	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06514	9	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06515	11	Classroom		Faucet	2.8	Pass	Testing Complete
LW06516	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06517		Hallway	Across From CR 12	Cooler	<1.0	Pass	Testing Complete
LW06518	4	Classroom		Faucet	1.4	Pass	Testing Complete
LW06519	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06520		Hallway	Left Of CR 5	Cooler	<1.0	Pass	Testing Complete
LW06521	6	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06522	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06523	8	Classroom		Faucet	1.1	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW06524	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06525	10	Classroom		Faucet	1.7	Pass	Testing Complete
LW06526	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06527	17	Classroom		Faucet	1.7	Pass	Testing Complete
LW06528	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06529	100	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06530	100	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06531	15	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06532	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06533	14	Classroom		Faucet	1	Pass	Testing Complete
LW06534	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06535	16	Classroom		Faucet	1.1	Pass	Testing Complete
LW06536	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06537	106	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06538	106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06539	109	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06540	109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06541	111	Music		Faucet	<1.0	Pass	Testing Complete
LW06542	31	Classroom		Faucet	4.9	Pass	Testing Complete
LW06543	34	Music		Faucet	1.2	Pass	Testing Complete
LW06544	101	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06545	101	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW06546	110	Dual Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW06547		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW06548	20	Classroom		Faucet	1.6	Pass	Testing Complete
LW06549	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06550	23	Classroom		Faucet	1.2	Pass	Testing Complete
LW06551	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW06552	27	Classroom		Faucet	2.2	Pass	Testing Complete
LW06553	27	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW06554	2	Classroom		Faucet	1	Pass	Testing Complete
LW06555	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06556	30	Classroom		Faucet	1.1	Pass	Testing Complete
LW06557	19	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW06558	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06559	18	Classroom		Faucet	2.6	Pass	Testing Complete
LW06560	21	Classroom		Faucet	1.6	Pass	Testing Complete
LW06561	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06562		Media Center		Faucet	4	Pass	Testing Complete
LW06563	26	Classroom		Faucet	2.7	Pass	Testing Complete
LW06564	26	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06565	28	Classroom		Faucet	2.7	Pass	Testing Complete
LW06566	28	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
LW06567		Kitchen	Cafeteria	Faucet	<1.0	Pass	Testing Complete
LW06568		Health Room		Faucet	<1.0	Pass	Testing Complete
LW06570	30	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06571	32	Classroom		Faucet	1.7	Pass	Testing Complete
LW06572	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06574		Break Room		Faucet	<1.0	Pass	Testing Complete
LW06583	34	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M38855		Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M38858		Hallway	Across APR	Cooler	<1.0	Pass	Testing Complete
M38860		Kitchen	Cafeteria	Faucet	1.3	Pass	Testing Complete
M38861		Kitchen	Cafeteria	Faucet	1.5	Pass	Testing Complete
M38862		Kitchen	Cafeteria	Faucet	1.3	Pass	Testing Complete
M38896	19	Classroom		Faucet	4.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M42824		Hallway	Next CR 14	Cooler	<1.0	Pass	Testing Complete
M42952		Hallway	Left Of CR 5	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion