



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
New Hampshire Estates
Elementary School
8720 Carroll Avenue
Silver Spring, MD 20903

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	84
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	42.5

Project Status

Initial testing complete: Follow up testing required for 1 samples \geq 20 ppb.

Drinking Outlets results > 20 ppb

Room 309 (42.5 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: New Hampshire Elementary School
8720 Carroll Avenue
Silver Spring, MD 20903

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 New Hampshire Estates Elementary School, located at 8720 Carroll Avenue in Silver Spring, MD 20903.

Scope of Services:

PSI conducted lead in water testing at New Hampshire Estates 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 02/08/18 and 02/09/18 to collect samples from 86 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 was one result of the lead in water analysis at or above 20 parts per billion (ppb) and is highlighted in the summary table below:



Barcode ID	Date Collected	Sample Location	Sample Result (ppb)
LW02011	02/09/18	Bubbler– Classroom 309	42.5

The lead in water sample results for sample collection date 02/09/18 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 New Hampshire Estates Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00543		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW00544		Cafeteria	Right Of Kitchen	Cooler	<1.0	Pass	Testing Complete
LW00545	228	Music		Faucet	1.3	Pass	Testing Complete
LW00546		Work Room Media Center		Faucet	1.8	Pass	Testing Complete
LW00547	230	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00549	231	Art		Faucet	<1.0	Pass	Testing Complete
LW00550	231	Art		Faucet	6.9	Pass	Testing Complete
LW00551	231	Art		Faucet	3.5	Pass	Testing Complete
LW00552	231	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00553	231	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00555		Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW00556		Health Room		Faucet	<1.0	Pass	Testing Complete
LW00557	H-8	Health Room		Faucet	1.3	Pass	Testing Complete
LW00558	H-11	Health Room		Faucet	1	Pass	Testing Complete
LW00559	H-9	Health Room		Faucet	1.7	Pass	Testing Complete
LW00560	215	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00561	251	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW00562	204	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00563	204	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
LW00564	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00565	216	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW00566	205	Classroom		Faucet	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00567	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00568	217	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00569	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00570	206	Classroom		Faucet	1	Pass	Testing Complete
LW00571	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00572	218	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00573	218	Classroom		Bubbler - Indoor	2	Pass	Testing Complete
LW00574	219	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00575	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00576	209	Office		Faucet	3.2	Pass	Testing Complete
LW00577	220	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00578	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00579	221	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00580	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00581	101	Classroom		Faucet	4.2	Pass	Testing Complete
LW00583	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00584	117	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00585	118	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00586	119	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00587	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00588	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00589	311	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00590	304	Classroom		Faucet	1.2	Pass	Testing Complete
LW00591	304	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00592	312	Classroom		Faucet	2.9	Pass	Testing Complete
LW00593	312	Classroom		Bubbler - Indoor	9.9	Pass	Testing Complete
LW00594	305	Classroom		Faucet	1	Pass	Testing Complete
LW00595	305	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00596	313	Classroom		Faucet	4.4	Pass	Testing Complete
LW00597	313	Classroom		Bubbler - Indoor	7.1	Pass	Testing Complete
LW00598	306	Classroom		Faucet	1.2	Pass	Testing Complete
LW02003	306	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02004	314	Classroom		Faucet	3.2	Pass	Testing Complete
LW02005	314	Classroom		Bubbler - Indoor	11	Pass	Testing Complete
LW02006	307	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02007	307	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW02008	315	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
LW02009	308	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02010	316	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02011	309	Classroom		Bubbler - Indoor	42.5	Fail	Follow-Up Testing Needed
LW02012	317	Classroom		Faucet	1.9	Pass	Testing Complete
LW02013	317	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M00695		Break Room		Faucet	<1.0	Pass	Testing Complete
M00697	228	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M00698	230	Classroom		Faucet	<1.0	Pass	Testing Complete
M00710		Kitchen		Faucet	1.9	Pass	Testing Complete
M00711		Kitchen		Faucet	<1.0	Pass	Testing Complete
M00712		Kitchen		Faucet	3.4	Pass	Testing Complete
M00728		Hallway	Hall Left of CR 204	Cooler	<1.0	Pass	Testing Complete
M00754		Hallway	Hall Left of CR 116	Cooler	<1.0	Pass	Testing Complete
M00755	116	Classroom		Faucet	1.3	Pass	Testing Complete
M00757	117	Classroom		Faucet	1.3	Pass	Testing Complete
M00759	118	Classroom		Faucet	<1.0	Pass	Testing Complete
M00761	120	Classroom		Faucet	<1.0	Pass	Testing Complete
M00763	119	Classroom		Faucet	4.2	Pass	Testing Complete
M00765	121	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M00774		Hallway	Hall Left of CR 304	Cooler	<1.0	Pass	Testing Complete
M00789	315	Classroom		Faucet	<1.0	Pass	Testing Complete
M00793	316	Classroom		Faucet	<1.0	Pass	Testing Complete
M00795	308	Classroom		Faucet	<1.0	Pass	Testing Complete
M00796	309	Classroom		Faucet	<1.0	Pass	Testing Complete
M00800	311	Classroom		Faucet	1.7	Pass	Testing Complete

*ppb = parts per billion