



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

Executive Summary:

Lucy V. Barnsley Elementary School

14516 Nadine Drive,
Rockville, MD 20853

Date of Test Report:	9/7/2018
Round of Testing:	Initial
# of Outlets Tested:	126
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	12.8

Project Status

Initial testing complete: All results less than 20 ppb.



September 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: Lucy V. Barnsley Elementary School
14516 Nadine Drive,
Rockville, MD 20853

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 Lucy V. Barnsley Elementary School, located at 14516 Nadine Drive, Rockville, MD 20853.

Scope of Services:

PSI conducted lead in water testing at Lucy V. Barnsley 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 9/6/18 and 9/7/18 to collect samples from 126 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 9/7/18 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 Lucy V. Barnsley Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07124	105	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW08143	003	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08144	003	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08145	005	Classroom		Faucet	2.1	Pass	Testing Complete
LW08146	005	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08147	007	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08148	007	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08149		Hallway	Across From 007	Cooler	<1.0	Pass	Testing Complete
LW08150		Hallway	Across From 007	Cooler	1.0	Pass	Testing Complete
LW08164		Hallway	Across From 007	Cooler	<1.0	Pass	Testing Complete
LW08165	011	Classroom		Faucet	2.7	Pass	Testing Complete
LW08166	011	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08167	015	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08168	015	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08169	102	Health Room		Faucet	2.7	Pass	Testing Complete
LW08170	102	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08171	102B	Health Room		Faucet	<1.0	Pass	Testing Complete
LW08172	102B	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08173	102C	Health Room		Faucet	2.2	Pass	Testing Complete
LW08174	102C	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08175	112	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW08176	112	Work Room Administration		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08177	106	Break Room		Faucet	1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08178	106	Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08179		Hallway	Across From 137	Cooler	<1.0	Pass	Testing Complete
LW08180		Hallway	Across From 137	Cooler	<1.0	Pass	Testing Complete
LW08181		Hallway	Across From 137	Cooler	<1.0	Pass	Testing Complete
LW08182	137	Classroom		Faucet	2.3	Pass	Testing Complete
LW08183	137	Classroom		Faucet	1.2	Pass	Testing Complete
LW08184	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08185	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08186	116	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08187	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08188	120	Classroom		Faucet	1.3	Pass	Testing Complete
LW08189	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08190	122	Office		Faucet	3.0	Pass	Testing Complete
LW08191	122	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08192	128	Classroom		Faucet	1.7	Pass	Testing Complete
LW08193	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08194	126	Classroom		Faucet	11.3	Pass	Testing Complete
LW08195	126	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW08196		Hallway	Across From 126	Cooler	<1.0	Pass	Testing Complete
LW08197		Hallway	Across From 126	Cooler	<1.0	Pass	Testing Complete
LW08198	124	Classroom		Faucet	12.8	Pass	Testing Complete
LW08199	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08200	107	Classroom		Faucet	2.5	Pass	Testing Complete
LW08201	107	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08202	105	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08203		Hallway	Next To 139boys	Cooler	<1.0	Pass	Testing Complete
LW08204		Hallway	Next To 155girls	Cooler	<1.0	Pass	Testing Complete
LW08205	151	Art		Faucet	3.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08206	151	AV Storage		Faucet	1.5	Pass	Testing Complete
LW08207	151	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08208	151	Art		Bubbler - Indoor	1.1	Pass	Testing Complete
LW08209	147	Music		Faucet	5.0	Pass	Testing Complete
LW08210	147	Music		Bubbler - Indoor	1.1	Pass	Testing Complete
LW08211		Hallway	Outside Of Apr	Cooler	<1.0	Pass	Testing Complete
LW08212		Hallway	Outside Of Apr	Cooler	<1.0	Pass	Testing Complete
LW08213		Hallway	Outside Of Apr	Cooler	<1.0	Pass	Testing Complete
LW08214	140B	Kitchen		Faucet	2.3	Pass	Testing Complete
LW08215		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
LW08216		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
LW08217		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
LW08218	208	Classroom		Faucet	2.3	Pass	Testing Complete
LW08219	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08220	212	Classroom		Faucet	2.1	Pass	Testing Complete
LW08221	212	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW08222	214	Classroom		Faucet	2.7	Pass	Testing Complete
LW08223	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08224	211	Office		Faucet	1.7	Pass	Testing Complete
LW08225	211	Office		Bubbler - Indoor	1.3	Pass	Testing Complete
LW08226	218	Classroom		Faucet	2.1	Pass	Testing Complete
LW08227	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08228	222	Classroom		Faucet	1.3	Pass	Testing Complete
LW08229	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08230	224	Classroom		Faucet	1.5	Pass	Testing Complete
LW08231	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08232	226	Classroom		Faucet	1.8	Pass	Testing Complete
LW08233	226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08234	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08235	215	Classroom		Faucet	2.9	Pass	Testing Complete
LW08236	225A	Office Media Center		Faucet	1.5	Pass	Testing Complete
LW08237	225A	Office Media Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08238		Hallway	In Front Of 255	Cooler	<1.0	Pass	Testing Complete
LW08239		Hallway	In Front Of 255	Cooler	<1.0	Pass	Testing Complete
LW08240	235	Classroom		Faucet	2.1	Pass	Testing Complete
LW08241	235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08242	237	Classroom		Faucet	3.0	Pass	Testing Complete
LW08243	237	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08244	239	Classroom		Faucet	1.4	Pass	Testing Complete
LW08245	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08246	247	Classroom		Faucet	2.0	Pass	Testing Complete
LW08247	247	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW08248	249	Classroom		Faucet	1.8	Pass	Testing Complete
LW08249	249	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08250	251	Classroom		Faucet	2.9	Pass	Testing Complete
LW08251	251	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW08252	230	Classroom		Faucet	3.3	Pass	Testing Complete
LW08253	230	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW08254	236	Classroom		Faucet	1.6	Pass	Testing Complete
LW08255	277	Classroom		Faucet	1.7	Pass	Testing Complete
LW08256	277	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M37483	115	Classroom		Faucet	2.8	Pass	Testing Complete
M37484	115	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M37503	140B	Kitchen		Faucet	1.0	Pass	Testing Complete
M37504	140B	Kitchen		Faucet	1.1	Pass	Testing Complete
M37505	140B	Kitchen		Faucet	2.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M37525	150	Music		Faucet	<1.0	Pass	Testing Complete
M37526	150	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M37572	263	Classroom		Faucet	1.7	Pass	Testing Complete
M37573	263	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
M37574	265	Classroom		Faucet	1.2	Pass	Testing Complete
M37575	265	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M37577	228	Classroom		Faucet	3.7	Pass	Testing Complete
M37578	228	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
M37581	232	Classroom		Faucet	1.9	Pass	Testing Complete
M37582	232	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M37596	275	Classroom		Faucet	3.7	Pass	Testing Complete
M37597	275	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M37601	236	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M37602	234	Classroom		Faucet	7.2	Pass	Testing Complete
M37603	234	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M37672	130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M37673	130	Classroom		Faucet	1.3	Pass	Testing Complete
M37678	132	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M37680	132	Classroom		Faucet	1.5	Pass	Testing Complete

*ppb = parts per billion