



## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

April 24, 2018

**Executive Summary:**  
**Oak View Elementary School**  
400 E Wayne Avenue  
Silver Spring, MD 20901

Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets $\geq$ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	37.6
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Classroom 209 (37.6 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	1

**Project Status**  
**Testing Complete: Remediation Plan**

Classroom 209 – Replace fixture (LW02028), in addition to supply line and valve located under sink



April 24, 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: Oak View Elementary School  
400 E Wayne Avenue  
Silver Spring, MD 20901

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 the initial and follow-up lead in water testing at Oak View Elementary School, located at 400 E Wayne Avenue in Silver Spring, MD 20901.

**Scope of Services:**

PSI conducted lead in water testing at Oak View 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 02/12/18 and 02/13/18 to collect samples from 47 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. One 30 second follow-up sample was collected on 4/11/18.

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 initial lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:



Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
LW02028	Bubbler – Classroom 209	2/13/2018	37.6	4/11/18	23.0

The initial lead in water sample results (02/22/18) and 30 second follow up results (4/11/18) 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 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 – Initial Lead in Water Test Summary Table

# ATTACHMENT A

## Oak View ES Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Initial Sample Results for Oak View ES (2/13/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW02014		Kitchen All Purpose Room		Faucet	6.9	Pass	Testing Complete
LW02015		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW02016		Kitchen All Purpose Room		Faucet	3.6	Pass	Testing Complete
LW02017	124A	Office Media Center		Faucet	<1.0	Pass	Testing Complete
LW02018		Hallway	Across From Art Room	Cooler	<1.0	Pass	Testing Complete
LW02019	130	Classroom		Faucet	1.1	Pass	Testing Complete
LW02020	130	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW02021	132	Classroom		Faucet	7.0	Pass	Testing Complete
LW02022	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02023	137	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW02024	137	Classroom		Faucet	6.7	Pass	Testing Complete
LW02025	134	Classroom		Faucet	6.5	Pass	Testing Complete
LW02027	202	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW02028	209	Classroom		Bubbler - Indoor	37.6	Fail	Follow-Up Testing Needed
LW02029		Hallway	Between Room 115 and 117	Cooler	<1.0	Pass	Testing Complete
LW02030		Hallway	Between Room 115 and 117	Cooler	<1.0	Pass	Testing Complete
M07318	100E	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M07320	102	Health Room Health		Faucet	<1.0	Pass	Testing Complete
M07323		Hallway	Front of Gym 101	Cooler	<1.0	Pass	Testing Complete
M07328		Hallway	Between Room 150 and 148	Cooler	<1.0	Pass	Testing Complete
M07329	147	Music		Faucet	<1.0	Pass	Testing Complete
M07330	140	Resource Center		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M07336	128	Classroom		Faucet	<1.0	Pass	Testing Complete
M07351	139	Classroom		Faucet	5.7	Pass	Testing Complete
M07352	139	Classroom		Bubbler	6.4	Pass	Testing Complete
M07353	111	Reading		Faucet	12.4	Pass	Testing Complete
M07357	117	Break Room		Faucet	<1.0	Pass	Testing Complete
M07363	122	Classroom		Faucet	<1.0	Pass	Testing Complete
M07364	122	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07365	119	Classroom		Faucet	<1.0	Pass	Testing Complete
M07366	119	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07367	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M07368	121	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07369	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M07370	123	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07371		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
M07376	205	Classroom		Faucet	1.3	Pass	Testing Complete
M07377	205	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07380	204	Classroom		Faucet	2.7	Pass	Testing Complete
M07381	204	Classroom		Bubbler	1.4	Pass	Testing Complete
M07382	206	Classroom		Faucet	4.6	Pass	Testing Complete
M07384	207	Classroom		Faucet	6.7	Pass	Testing Complete
M07385	207	Classroom		Bubbler	<1.0	Pass	Testing Complete
M07386	209	Classroom		Faucet	7.5	Pass	Testing Complete
M07393	208	Hallway	Between Room 208 and 210	Cooler	<1.0	Pass	Testing Complete
M07394		Hallway	Right Of SBR	Cooler	<1.0	Pass	Testing Complete
M07395	202	Classroom		Faucet	6.7	Pass	Testing Complete

\*ppb = parts per billion

**Contractor:** Professional Services Industries, Inc.  
**Certified Laboratory:** Microbac Laboratories, Inc.

Follow Up Sample Results for Oak View ES (4/11/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	Initial draw (3 <sup>rd</sup> ) (PPB)	30 Second Draw (PPB)	Status
LW02028	209	Classroom	Bubbler - Indoor	40.60	26.70	23.0	Remediation required – replace fixture, in addition to supply line and valve located under sink

\*ppb = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.