

Montgomery County Public Schools Lead in Drinking Water Testing Report

Clarksburg Elementary School (Includes Annex)
13530 Redgrave Place
Clarksburg, MD 20871

Report Date: February 15th, 2022

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

| | |
|---------------------------|------------|
| Sampling Date | 10/21/2021 |
| # of Outlets Tested | 29 |
| # of Outlets \geq 5 ppb | 8 |

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

**Please note that boiling the water will not reduce lead levels.*

ADDITIONAL INFORMATION

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead.
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Clarksburg ES (Includes Annex)

| Fixture Barcode | Fixture Location | Fixture Type | Initial Results (ppb) | Pass/Fail | Follow up Results (ppb) | Status |
|-----------------|------------------------------------|---|-----------------------|-----------|-------------------------|------------------|
| LW07486 | In classroom 1 | Classroom Combination Sink | 2.9 | Pass | N/A | Testing Complete |
| LW07561 | In classroom 10 | Classroom Combination Sink | 2.7 | Pass | N/A | Testing Complete |
| M25236 | In classroom 11 | Classroom Sink | 10.1 | Fail | 4.3 | Testing Complete |
| M25247 | In classroom 11 | Bubbler - Indoor | 8.2 | Fail | 4.5 | Testing Complete |
| M25231 | In classroom 12 | Classroom Combination Sink | 2.0 | Pass | N/A | Testing Complete |
| M25232 | In classroom 12 | Bubbler - Indoor | 5.7 | Fail | 3.3 | Testing Complete |
| LW07559 | In classroom 13 | Classroom Sink | 5.0 | Fail | 2.1 | Testing Complete |
| LW07560 | In classroom 13 | Bubbler - Indoor | 3.3 | Pass | N/A | Testing Complete |
| LW07557 | In classroom 14 | Classroom Sink | 1.9 | Pass | N/A | Testing Complete |
| LW07558 | In classroom 14 | Bubbler - Indoor | <1 | Pass | N/A | Testing Complete |
| M25236 | In classroom 15 | Classroom Sink | 3.5 | Pass | N/A | Testing Complete |
| M25241 | In classroom 16 | Classroom Sink | 2.8 | Pass | N/A | Testing Complete |
| M25193 | In classroom 2 | Teacher's Lounge Sink | 2.8 | Pass | N/A | Testing Complete |
| M25189 | In classroom 4 | Teacher's Lounge Sink | 2.9 | Pass | N/A | Testing Complete |
| M25190 | In classroom 4 | Classroom Combination Drinking Fountain | 9.8 | Fail | 19.0 | Testing Complete |
| LW07550 | In classroom 5 | Classroom Combination Sink | 5.5 | Fail | 3.7 | Testing Complete |
| LW07543 | In classroom 6 | Teacher's Lounge Sink | 4.4 | Pass | N/A | Testing Complete |
| LW07544 | In classroom 6 | Classroom Combination Drinking Fountain | 4.0 | Pass | N/A | Testing Complete |
| LW07541 | In classroom 7 | Teacher's Lounge Sink | 2.8 | Pass | N/A | Testing Complete |
| M25218 | In classroom 8 | Teacher's Lounge Sink | 1.2 | Pass | N/A | Testing Complete |
| M25219 | In classroom 8 | Classroom Combination Drinking Fountain | 2.2 | Pass | N/A | Testing Complete |
| LW07563 | In classroom 9 | Teacher's Lounge Sink | 2.2 | Pass | N/A | Testing Complete |
| LW07549 | In hallway across from Apr | Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| LW07565 | In hallway In front of main office | Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| LW07488 | In hallway next to gym | Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| LW07546 | In health room | Nurses Office Sink | 4.0 | Pass | N/A | Testing Complete |
| LW07548 | In kitchen | Kitchen Sink | 6.2 | Fail | 1.1 | Testing Complete |
| LW07547 | In music room | Classroom Sink | 2.5 | Pass | N/A | Testing Complete |
| M25208 | In resource | Classroom Combination Sink | 10.9 | Fail | 10.9 | Testing Complete |



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

Executive Summary:
Clarksburg Elementary School
13530 Redgrave Pl,
Clarksburg, MD 20871

| | |
|-----------------------------|-----------|
| Date of Test Report: | 5/11/2018 |
| Round of Testing: | Initial |
| # of Outlets Tested: | 46 |
| # of Outlets \geq 20 ppb: | 0 |
| Low Value (ppb): | < 1.0 |
| High Value (ppb): | 19.5 |

Project Status

Initial testing complete: All results less than 20 ppb.



May 11, 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: Clarksburg Elementary School
13530 Redgrave Pl,
Clarksburg, MD 20871

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 Clarksburg Elementary School, located at 13530 Redgrave Pl, Clarksburg, MD 20871.

Scope of Services:

PSI conducted lead in water testing at Clarksburg 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 4/16/18 and 4/17/18 to collect samples from 46 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 4/17/18 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 Clarksburg Elementary School

| Barcode ID | Room Number | Location | Location Notes | Equipment Type | Result (PPB)* | Pass/Fail | Status |
|------------|-------------|--------------------------|-----------------|------------------|---------------|-----------|------------------|
| LW07485 | 2 | Classroom | | Bubbler - Indoor | 07.60 | Pass | Testing Complete |
| LW07486 | 1 | Classroom | | Faucet | 01.30 | Pass | Testing Complete |
| LW07487 | 1 | Classroom | | Bubbler - Indoor | 02.30 | Pass | Testing Complete |
| LW07488 | | Hallway | Next to Gym | Cooler | <1.0 | Pass | Testing Complete |
| LW07541 | 7 | Classroom | | Faucet | 1.6 | Pass | Testing Complete |
| LW07542 | 7 | Classroom | | Bubbler - Indoor | 10.0 | Pass | Testing Complete |
| LW07543 | 6 | Classroom | | Faucet | 3.2 | Pass | Testing Complete |
| LW07544 | 6 | Classroom | | Bubbler - Indoor | 1.2 | Pass | Testing Complete |
| LW07545 | | Work Room Administration | | Faucet | 16.6 | Pass | Testing Complete |
| LW07546 | | Health Room | | Faucet | 1.9 | Pass | Testing Complete |
| LW07547 | | Break Room | | Faucet | 1.1 | Pass | Testing Complete |
| LW07548 | | Kitchen | | Faucet | 1.5 | Pass | Testing Complete |
| LW07549 | | Hallway | Across from APR | Cooler | <1.0 | Pass | Testing Complete |
| LW07550 | 5 | Classroom | | Faucet | 3.2 | Pass | Testing Complete |
| LW07551 | 5 | Classroom | | Bubbler - Indoor | 7.7 | Pass | Testing Complete |
| LW07556 | 16 | Classroom | | Bubbler - Indoor | 3.8 | Pass | Testing Complete |
| LW07557 | 14 | Classroom | | Faucet | <1.0 | Pass | Testing Complete |
| LW07558 | 14 | Classroom | | Bubbler - Indoor | <1.0 | Pass | Testing Complete |
| LW07559 | 13 | Classroom | | Faucet | 3.1 | Pass | Testing Complete |
| LW07560 | 13 | Classroom | | Bubbler - Indoor | 1.5 | Pass | Testing Complete |
| LW07561 | 10 | Classroom | | Faucet | 4.2 | Pass | Testing Complete |
| LW07562 | 10 | Classroom | | Bubbler - Indoor | 1.1 | Pass | Testing Complete |
| LW07563 | 9 | Classroom | | Faucet | 4.4 | Pass | Testing Complete |

| Barcode ID | Room Number | Location | Location Notes | Equipment Type | Result (PPB)* | Pass/Fail | Status |
|------------|-------------|---------------------|-------------------------|------------------|---------------|-----------|------------------|
| LW07565 | | Hallway | In Front of Main Office | Cooler | <1.0 | Pass | Testing Complete |
| M25177 | | Kitchen | | Faucet | 6.6 | Pass | Testing Complete |
| M25178 | | Kitchen | | Faucet | 2.4 | Pass | Testing Complete |
| M25179 | | Kitchen | | Faucet | 1.5 | Pass | Testing Complete |
| M25189 | 4 | Classroom | | Faucet | 2.5 | Pass | Testing Complete |
| M25190 | 4 | Classroom | | Bubbler - Indoor | 3.2 | Pass | Testing Complete |
| M25191 | 3 | Classroom | | Faucet | 8.9 | Pass | Testing Complete |
| M25193 | 2 | Classroom | | Faucet | 4.5 | Pass | Testing Complete |
| M25203 | | Music | | Faucet | 19.5 | Pass | Testing Complete |
| M25204 | | Music | | Bubbler - Indoor | 1.1 | Pass | Testing Complete |
| M25208 | | Resource | | Faucet | 4.0 | Pass | Testing Complete |
| M25209 | | Resource | | Bubbler - Indoor | <1.0 | Pass | Testing Complete |
| M25210 | | Office Media Center | | Faucet | 5.0 | Pass | Testing Complete |
| M25216 | | Reading | | Faucet | 7.0 | Pass | Testing Complete |
| M25218 | 8 | Classroom | | Faucet | 1.8 | Pass | Testing Complete |
| M25219 | 8 | Classroom | | Bubbler - Indoor | 1.3 | Pass | Testing Complete |
| M25231 | 12 | Classroom | | Faucet | 2.0 | Pass | Testing Complete |
| M25232 | 12 | Classroom | | Bubbler - Indoor | 3.9 | Pass | Testing Complete |
| M25236 | 15 | Classroom | | Faucet | 9.5 | Pass | Testing Complete |
| M25237 | 15 | Classroom | | Bubbler - Indoor | 2.1 | Pass | Testing Complete |
| M25241 | 16 | Classroom | | Faucet | 3.7 | Pass | Testing Complete |
| M25246 | 11 | Classroom | | Faucet | 3.1 | Pass | Testing Complete |
| M25247 | 11 | Classroom | | Bubbler - Indoor | 3.4 | Pass | Testing Complete |

*ppb = parts per billion