

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Harmony Hills Elementary School  
13407 Lydia St.  
Silver Spring, MD 20906

Report Date: February 27<sup>th</sup>, 2020

## 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             | 2/7/2020 |
| # of Outlets Tested       | 89       |
| # of Outlets $\geq$ 5 ppb | 0        |

## 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](mailto: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](http://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 Harmony Hills ES

| Fixture Barcode | Fixture Location                  | Fixture Type                            | Initial Results (ppb) | Pass/Fail | Follow up Results (ppb) | Status           |
|-----------------|-----------------------------------|---|-----------------------|-----------|-------------------------|------------------|
| LW02546         | In classroom 145                  | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02547         | Across from Girls Bathroom 124    | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02548         | Across from Girls Bathroom 124    | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02549         | In kitchen                        | Kitchen Sink                            | <1                    | Pass      | N/A                     | Testing Complete |
| LW02550         | In kitchen                        | Kitchen Sink                            | <1                    | Pass      | N/A                     | Testing Complete |
| LW02551         | In kitchen                        | Kitchen Sink                            | <1                    | Pass      | N/A                     | Testing Complete |
| LW02552         | In kitchen                        | Kitchen Sink                            | <1                    | Pass      | N/A                     | Testing Complete |
| LW02553         | In health room 111                | Nurses Office Sink                      | <1                    | Pass      | N/A                     | Testing Complete |
| LW02554         | In classroom 2                    | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| LW02555         | In classroom 2                    | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02556         | In classroom 4                    | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| LW02557         | In classroom 4                    | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02558         | In classroom 6                    | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| LW02559         | In classroom 6                    | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02560         | In classroom 8                    | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| LW02561         | In classroom 8                    | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02562         | In classroom 10                   | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| LW02563         | In classroom 10                   | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| LW02564         | In hallway leading to gymnasium   | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02565         | In hallway leading to gymnasium   | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02853         | Across from room 201 - Mechanical | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02854         | Across from room 201 - Mechanical | Drinking Fountain                       | <1                    | Pass      | N/A                     | Testing Complete |
| LW02855         | In room 214 - Staff Lounge        | Teachers Lounge Sink                    | <1                    | Pass      | N/A                     | Testing Complete |
| M09731          | In classroom 139                  | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| M09732          | In classroom 139                  | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |
| M09733          | In classroom 141                  | Classroom Combination Sink              | <1                    | Pass      | N/A                     | Testing Complete |
| M09734          | In classroom 141                  | Classroom Combination Drinking Fountain | <1                    | Pass      | N/A                     | Testing Complete |

|        |                                       |   |    |      |     |                  |
|--------|---------------------------------------|---|----|------|-----|------------------|
| M09735 | In classroom 143                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09736 | In classroom 143                      | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09737 | In Inst music 146                     | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09738 | In Inst music 146                     | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09739 | In classroom 145                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09741 | In classroom 147                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09743 | In classroom 149                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09744 | In classroom 149                      | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09745 | In classroom 148                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09746 | In classroom 148                      | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09747 | In classroom 151                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09748 | In classroom 151                      | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09749 | In classroom 150                      | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09750 | In classroom 150                      | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09765 | In hallway next to Girls Bathroom 040 | Drinking Fountain                       | <1 | Pass | N/A | Testing Complete |
| M09766 | In hallway next to Girls Bathroom 040 | Drinking Fountain                       | <1 | Pass | N/A | Testing Complete |
| M09768 | In classroom 38                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09769 | In classroom 38                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09770 | In classroom 37                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09771 | In classroom 37                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09772 | In classroom 36                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09773 | In classroom 36                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09774 | In classroom 35                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09775 | In classroom 35                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09776 | In classroom 34                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09777 | In classroom 34                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09778 | In classroom 33                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09779 | In classroom 33                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09780 | In classroom 32                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |
| M09781 | In classroom 32                       | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing Complete |
| M09782 | In classroom 31                       | Classroom Combination Sink              | <1 | Pass | N/A | Testing Complete |

|         |                                |   |     |      |     |                  |
|---------|--------------------------------|---|-----|------|-----|------------------|
| M09783  | In classroom 31                | Classroom Combination Drinking Fountain | <1  | Pass | N/A | Testing Complete |
| LW08093 | In Staff Work Room 102         | Teachers Lounge Sink                    | <1  | Pass | N/A | Testing Complete |
| LW08094 | Across from Rm 2               | Drinking Fountain                       | <1  | Pass | N/A | Testing Complete |
| LW08096 | In Rm 7                        | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08097 | In Rm 9                        | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08098 | In hallway by gymnasium        | Drinking Fountain                       | <1  | Pass | N/A | Testing Complete |
| LW08374 | In Rm 137                      | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08375 | In Rm 135                      | Classroom Sink                          | 2.5 | Pass | N/A | Testing Complete |
| M09742  | In classroom 147               | Classroom Combination Drinking Fountain | <1  | Pass | N/A | Testing Complete |
| LW08376 | In classroom 136               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08060 | In classroom 134               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08377 | In classroom 133               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08378 | In classroom 132               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08379 | In classroom 140               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08380 | Across from Girls Bathroom 124 | Drinking Fountain                       | <1  | Pass | N/A | Testing Complete |
| LW08381 | In classroom 122               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08382 | Media Center                   | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08383 | In Link Lab 101G               | Nurses Office Sink                      | <1  | Pass | N/A | Testing Complete |
| LW08384 | In Link Lab 101H               | Nurses Office Sink                      | <1  | Pass | N/A | Testing Complete |
| LW08061 | In Link Lab 101F               | Nurses Office Sink                      | <1  | Pass | N/A | Testing Complete |
| LW08062 | In classroom 216               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08064 | In classroom 220               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08065 | In classroom 222               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08066 | In classroom 223               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08067 | In classroom 224               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08068 | In classroom 225               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08069 | In classroom 215               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08070 | In classroom 218               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08071 | In classroom 3                 | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08063 | In classroom 217               | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |
| LW08095 | In classroom 5                 | Classroom Sink                          | <1  | Pass | N/A | Testing Complete |



## Montgomery County Public Schools Lead in Drinking Water Testing 2018

### Executive Summary:

#### Harmony Hills Elementary School

13407 Lydia Street

Silver Spring, Maryland 20906

|                             |           |
|-----------------------------|-----------|
| Date of Test Report:        | 3/13/2018 |
| Round of Testing:           | Initial   |
| # of Outlets Tested:        | 42        |
| # of Outlets $\geq 20$ ppb: | 0         |
| Low Value (ppb):            | <1.0      |
| High Value (ppb):           | 1.8       |

### Project Status:

Initial testing complete; All results less than 20 ppb.



3/13/2018

Mr. Brian Mullikin, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634186

**Location: Harmony Hills Elementary School**

13407 Lydia Street  
Silver Spring, Maryland 20906

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of Initial lead in water testing at Harmony Hills Elementary School, located at 13407 Lydia Street in Silver Spring, Maryland 20906.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Harmony Hills 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.

KCI visited the site on 1/30/2018 and 1/31/2018 to collect samples from 42 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.



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## **RESULTS**

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 1/31/2018 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,  
KCI Technologies, Inc.



Kamau McAbee  
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

## ATTACHMENT A

### Lead in Water Test Summary Table

**Contractor:** KCI Technologies, Inc.

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

#### Sample Results for Harmony Hills ES

| Barcode ID | Room # | Location   | Location Notes | Equipment Type   | Results (PPB)* | Pass/Fail | Status           |
|------------|--------|------------|----------------|------------------|----------------|-----------|------------------|
| LW02546    | 145    | Classroom  |                | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| LW02549    |        | Kitchen    |                | Faucet           | <1.0           | Pass      | Testing Complete |
| LW02550    |        | Kitchen    |                | Faucet           | <1.0           | Pass      | Testing Complete |
| LW02551    |        | Kitchen    |                | Faucet           | <1.0           | Pass      | Testing Complete |
| LW02552    |        | Kitchen    |                | Faucet           | <1.0           | Pass      | Testing Complete |
| LW02853    |        | Hallway    |                | Cooler           | <1.0           | Pass      | Testing Complete |
| LW02854    |        | Hallway    |                | Cooler           | <1.0           | Pass      | Testing Complete |
| LW02855    |        | Work Room  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09731     | 139    | Classroom  |                | Faucet           | 1.8            | Pass      | Testing Complete |
| M09732     | 139    | Classroom  |                | Bubbler - Indoor | 1.1            | Pass      | Testing Complete |
| M09733     | 141    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09734     | 141    | Classroom  |                | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09735     | 143    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09736     | 143    | Classroom  |                | Bubbler - Indoor | 1              | Pass      | Testing Complete |
| M09737     | 146    | Inst Music |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09738     | 146    | Inst Music |                | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09739     | 145    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09741     | 147    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09743     | 149    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09744     | 149    | Classroom  |                | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09745     | 148    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |
| M09746     | 148    | Classroom  |                | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09747     | 151    | Classroom  |                | Faucet           | <1.0           | Pass      | Testing Complete |

| Barcode ID | Room # | Location  | Location Notes  | Equipment Type   | Results (PPB)* | Pass/Fail | Status           |
|------------|--------|-----------|-----------------|------------------|----------------|-----------|------------------|
| M09748     | 151    | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09749     | 150    | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09750     | 150    | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09765     |        | Hallway   | Next to GBR 040 | Cooler           | <1.0           | Pass      | Testing Complete |
| M09766     |        | Hallway   | Next to GBR 040 | Cooler           | <1.0           | Pass      | Testing Complete |
| M09768     | 38     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09769     | 38     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09770     | 37     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09771     | 37     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09772     | 36     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09773     | 36     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09776     | 34     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09777     | 34     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09778     | 33     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09779     | 33     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09780     | 32     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09781     | 32     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |
| M09782     | 31     | Classroom |                 | Faucet           | <1.0           | Pass      | Testing Complete |
| M09783     | 31     | Classroom |                 | Bubbler - Indoor | <1.0           | Pass      | Testing Complete |

\*PPB = parts per billion