

Montgomery County Public Schools Lead in Drinking Water Testing Report

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

Report Date: July 28th, 2023

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 State Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by Inspection Experts Inc. is presented in the table below.

| | |
|---------------------------|---------|
| Sampling Date | 4/12/23 |
| # of Outlets Tested | 45 |
| # of Outlets \geq 5 ppb | 5 |

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be shut-down within 24 hours, 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 outlets, food, cosmetics, exposure in the workplace 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 New Hampshire Estates ES

| Outlet Barcode | Outlet Location | Outlet Type | Initials Results (ppb) | Pass/Fail | Status |
|----------------|-------------------------------|---|------------------------|-----------|-------------------------|
| LW00543 | In hallway next to gym | Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00544 | In cafeteria right of kitchen | Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00547 | In classroom 230 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00553 | In art 231 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00556 | In health room | Nurses Office Sink | <1.0 | Pass | Testing Complete |
| LW00557 | In health room H-8 | Nurses Office Sink | <1.0 | Pass | Testing Complete |
| LW00558 | In health room H-11 | Nurses Office Sink | 4.1 | Pass | Testing Complete |
| LW00559 | In health room H-9 | Nurses Office Sink | 16.8 | Fail | Remediation Action Plan |
| LW00561 | In classroom 251 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00563 | In classroom 204 | Classroom Combination Drinking Fountain | 1.4 | Pass | Testing Complete |
| LW00565 | In classroom 216 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00567 | In classroom 205 | Classroom Combination Drinking Fountain | 1.8 | Pass | Testing Complete |
| LW00569 | In classroom 217 | Classroom Combination Drinking Fountain | 5.3 | Fail | Remediation Action Plan |
| LW00571 | In classroom 206 | Classroom Combination Drinking Fountain | 6.2 | Fail | Remediation Action Plan |
| LW00573 | In classroom 218 | Classroom Combination Drinking Fountain | 1.5 | Pass | Testing Complete |
| LW00575 | In classroom 219 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00578 | In classroom 220 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00580 | In classroom 221 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00583 | In classroom 116 | Classroom Combination Drinking Fountain | 2.0 | Pass | Testing Complete |
| LW00584 | In classroom 117 | Classroom Combination Drinking Fountain | 1.0 | Pass | Testing Complete |

| Outlet Barcode | Outlet Location | Outlet Type | Initials Results (ppb) | Pass/Fail | Status |
|-----------------------|---------------------------|---|-------------------------------|------------------|-------------------------|
| LW00587 | In classroom 120 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00588 | In classroom 121 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00589 | In classroom 311 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00591 | In classroom 304 | Classroom Combination Drinking Fountain | 1.5 | Pass | Testing Complete |
| LW00595 | In classroom 305 | Classroom Combination Drinking Fountain | 1.8 | Pass | Testing Complete |
| LW02003 | In classroom 306 | Classroom Combination Drinking Fountain | 1.6 | Pass | Testing Complete |
| LW02007 | In classroom 307 | Classroom Combination Drinking Fountain | 1.4 | Pass | Testing Complete |
| LW02008 | In classroom 315 | Classroom Combination Drinking Fountain | 7.3 | Fail | Remediation Action Plan |
| LW02009 | In classroom 308 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW02010 | In classroom 316 | Classroom Combination Drinking Fountain | 1.4 | Pass | Testing Complete |
| LW02011 | In classroom 309 | Classroom Combination Drinking Fountain | 36.1 | Fail | Remediation Action Plan |
| LW02013 | In classroom 317 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| M00695 | In break room | Teachers Lounge Sink | <1.0 | Pass | Testing Complete |
| M00697 | In music 228 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| M00710 | In kitchen | Kitchen Sink | 1.5 | Pass | Testing Complete |
| M00711 | In kitchen | Kitchen Sink | 1.7 | Pass | Testing Complete |
| M00712 | In kitchen | Kitchen Sink | <1.0 | Pass | Testing Complete |
| M00728 | In hallway left of CR 204 | Drinking Fountain | <1.0 | Pass | Testing Complete |
| M00754 | In hallway left of CR 116 | Drinking Fountain | <1.0 | Pass | Testing Complete |
| M00774 | In hallway left of CR 304 | Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW00585 | CR 118 | Classroom Combination Drinking Fountain | 1.1 | Pass | Testing Complete |
| LW00586 | CR 119 | Classroom Combination Drinking Fountain | 4.1 | Pass | Testing Complete |

| Outlet Barcode | Outlet Location | Outlet Type | Initials Results (ppb) | Pass/Fail | Status |
|-----------------------|------------------------|---|-------------------------------|------------------|------------------|
| LW00593 | CR 312 | Classroom Combination Drinking Fountain | 1.2 | Pass | Testing Complete |
| LW00597 | CR 313 | Classroom Combination Drinking Fountain | <1.0 | Pass | Testing Complete |
| LW02005 | CR 314 | Classroom Combination Drinking Fountain | 1.7 | Pass | Testing Complete |

Montgomery County Public Schools Lead in Drinking Water Testing Report

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

Report Date: August 13th, 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 | 2/21/2020 |
| # of Outlets Tested | 74 |
| # of Outlets \geq 5 ppb | 4 |

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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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 New Hampshire Estates ES

| Fixture Barcode | Fixture Location | Fixture Type | Initial Results (ppb) | Pass/Fail | Follow up Results (ppb) | Status |
|-----------------|--------------------------------|---|-----------------------|-----------|-------------------------|-------------------------|
| LW00543 | In hallway next to gym | Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00544 | In cafeteria right of kitchen | Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00545 | In music 228 | Classroom Combination Sink | 1.2 | Pass | N/A | Testing complete |
| LW00546 | In work room by media center | Classroom Sink | 1.1 | Pass | N/A | Testing complete |
| LW00547 | In classroom 230 | Classroom Combination Drinking Fountain | 1.0 | Pass | N/A | Testing complete |
| LW00552 | In art 231 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00553 | In art 231 | Classroom Combination Drinking Fountain | 1.0 | Pass | N/A | Testing complete |
| LW00555 | In work room by administration | Classroom Sink | <1 | Pass | N/A | Testing complete |
| LW00556 | In health room | Nurses Office Sink | <1 | Pass | N/A | Testing complete |
| LW00557 | In health room H-8 | Nurses Office Sink | 1.3 | Pass | N/A | Testing complete |
| LW00558 | In health room H-11 | Nurses Office Sink | 7.3 | Fail | NC | Remediation Action Plan |
| LW00559 | In health room H-9 | Nurses Office Sink | 16.3 | Fail | NC | Remediation Action Plan |
| LW00560 | In classroom 215 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00561 | In classroom 251 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00562 | In classroom 204 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00563 | In classroom 204 | Classroom Combination Drinking Fountain | 4.9 | Pass | N/A | Testing complete |
| LW00564 | In classroom 216 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00565 | In classroom 216 | Classroom Combination Drinking Fountain | 3.1 | Pass | N/A | Testing complete |
| LW00566 | In classroom 205 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00567 | In classroom 205 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00568 | In classroom 217 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00569 | In classroom 217 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00570 | In classroom 206 | Classroom Combination Sink | 1.1 | Pass | N/A | Testing complete |
| LW00571 | In classroom 206 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00572 | In classroom 218 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00573 | In classroom 218 | Classroom Combination Drinking Fountain | 6.5 | Fail | NC | Remediation Action Plan |

| | | | | | | |
|---------|------------------|---|------|------|-----|-------------------------|
| LW00574 | In classroom 219 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00575 | In classroom 219 | Classroom Combination Drinking Fountain | 1.3 | Pass | N/A | Testing complete |
| LW00576 | In office 209 | Classroom Sink | 1.7 | Pass | N/A | Testing complete |
| LW00577 | In classroom 220 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00578 | In classroom 220 | Classroom Combination Drinking Fountain | 1.2 | Pass | N/A | Testing complete |
| LW00579 | In classroom 221 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00580 | In classroom 221 | Classroom Combination Drinking Fountain | 1.2 | Pass | N/A | Testing complete |
| LW00581 | In classroom 101 | Classroom Combination Sink | 2.4 | Pass | N/A | Testing complete |
| LW00583 | In classroom 116 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00584 | In classroom 117 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00587 | In classroom 120 | Classroom Combination Drinking Fountain | 1.0 | Pass | N/A | Testing complete |
| LW00588 | In classroom 121 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00589 | In classroom 311 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00591 | In classroom 304 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00592 | In classroom 312 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00594 | In classroom 305 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW00595 | In classroom 305 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW00596 | In classroom 313 | Classroom Sink | <1 | Pass | N/A | Testing complete |
| LW00598 | In classroom 306 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW02003 | In classroom 306 | Classroom Combination Drinking Fountain | 1.0 | Pass | N/A | Testing complete |
| LW02004 | In classroom 314 | Classroom Sink | 2.6 | Pass | N/A | Testing complete |
| LW02006 | In classroom 307 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| LW02007 | In classroom 307 | Classroom Combination Drinking Fountain | 1.7 | Pass | N/A | Testing complete |
| LW02008 | In classroom 315 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW02009 | In classroom 308 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| LW02010 | In classroom 316 | Classroom Combination Drinking Fountain | 1.2 | Pass | N/A | Testing complete |
| LW02011 | In classroom 309 | Classroom Combination Drinking Fountain | 16.3 | Fail | NC | Remediation Action Plan |
| LW02013 | In classroom 317 | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| M00695 | In break room | Teachers Lounge Sink | <1 | Pass | N/A | Testing complete |

| | | | | | | |
|--------|--------------------------------|---|-----|------|-----|------------------|
| M00697 | In music 228 by music | Classroom Combination Drinking Fountain | <1 | Pass | N/A | Testing complete |
| M00698 | In classroom 230 left wall | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00710 | In kitchen by kitchen | Kitchen Sink | 1.2 | Pass | N/A | Testing complete |
| M00711 | In kitchen by kitchen | Kitchen Sink | <1 | Pass | N/A | Testing complete |
| M00712 | In kitchen by kitchen | Kitchen Sink | <1 | Pass | N/A | Testing complete |
| M00728 | In hallway hall left of CR 204 | Drinking Fountain | <1 | Pass | N/A | Testing complete |
| M00754 | In hallway hall left of CR 116 | Drinking Fountain | <1 | Pass | N/A | Testing complete |
| M00755 | In classroom 116 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00757 | In classroom 117 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00759 | In classroom 118 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00761 | In classroom 120 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00763 | In classroom 119 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00765 | In classroom 121 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00774 | In hallway hall left of CR 304 | Drinking Fountain | <1 | Pass | N/A | Testing complete |
| M00789 | In classroom 315 | Classroom Combination Sink | 3.2 | Pass | N/A | Testing complete |
| M00793 | In classroom 316 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00795 | In classroom 308 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |
| M00796 | In classroom 309 | Classroom Combination Sink | 1.1 | Pass | N/A | Testing complete |
| M00800 | In classroom 311 | Classroom Combination Sink | <1 | Pass | N/A | Testing complete |

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



Montgomery County Public Schools Lead in Drinking Water Post-Remediation Follow-Up Testing 2019

August 30, 2019

Executive Summary:

New Hampshire Estates Elementary School

8720 Carroll Avenue

Silver Spring, Maryland 20903

| | |
|----------------------------|----------------------------|
| Round of Testing: | Post-Remediation Follow-up |
| Sample Date | 2/1/19 |
| # of Outlets Tested: | 1 |
| # of Outlets ≥ 5 ppb: | 0 |
| Low Value (ppb): | 1.4 |
| High Value (ppb): | 1.4 |

Project Status

Testing Complete: Post-remediation follow-up testing completed for following rooms:

Classroom 309 - Outlet (LW02011) will be placed back into service



August 30, 2019

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Dr., Bldg A, 1st Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Post-Remediation Follow-up Testing Service

Location: New Hampshire Estates Elementary School

8720 Carroll Avenue
Silver Spring, Maryland 20903

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation follow-up lead in water testing at New Hampshire Estates Elementary School, located at 8720 Carroll Avenue in Silver Spring, Maryland 20903.

SCOPE OF SERVICES

One drinking water outlet was remediated at New Hampshire Estates Elementary School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). KCI Technologies, Inc. conducted lead in water post-remediation follow-up testing in accordance with the Maryland Code of Regulations (COMAR) 26.16.07 - Lead in Drinking Water - Public and Nonpublic Schools.

KCI Technologies, Inc. visited the site on 2/1/19 to collect a post-remediation follow-up sample from 1 drinking water outlet that had been replaced. The sample was 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

The initial, flush, and post-remediation follow-up results are highlighted in the summary table below:

| Barcode ID | Room Number | Location | Notes | Equipment Type | Initial (ppb) | Flush (ppb) | Post-Remediation Follow-up (ppb) | Post-Remediation Follow-up Pass/Fail | Status |
|---|-------------|-----------|-------|------------------|---------------|-------------|----------------------------------|--------------------------------------|--|
| LW02011 | 309 | Classroom | | Bubbler - Indoor | 42.5 | N/A* | 1.4 | Pass | Post-remediation follow-up testing complete. Outlet will be placed back into service |
| *Fixture broken, could not be sampled and subsequently replaced | | | | | | | | | |

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. The Environmental Protection Agency (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.

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
KCI Job #1214634186



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.

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 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