

Montgomery County Public Schools Lead in Drinking Water Testing Report

Little Bennett Elementary School
23930 Burdette Forest Rd.
Clarksburg, MD 20871

Report Date: April 29th, 2024

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	3/1/2024
# of Outlets Tested	45
# of Outlets \geq 5 ppb	1

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 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 Little Bennett ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M29148	In classroom 151	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29155	In classroom 138	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29158	In hallway next to 134	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11722	In hallway next to 116	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29159	In hallway next to 134	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29171	In kitchen	Faucet, Cold	2.3	Pass	Testing Complete
M29173	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
M29174	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
M29099	In Health Room	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29180	In music 122	Drinking Water fountain - Bubbler Style	1.6	Pass	Testing Complete
M29185	In hallway in front of gym	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M29186	In hallway in front of gym	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29196	In hallway next to 248	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29197	In hallway next to 248	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29217	In classroom 239	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29239	In classroom 231	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW11720	In classroom 169	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29219	In classroom 211	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29220	In hallway next to 206	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11721	In hallway next to GYM	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29221	In hallway next to 206	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29241	In classroom 227	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29243	In classroom 225	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW08670	In kindergarten 165	Drinking Water fountain - Bubblers Style	6.4	Fail	Remediation Action Plan
LW08690	In classroom 176	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08694	In art 128	Drinking Water fountain - Bubblers Style	1.6	Pass	Testing Complete
LW08698	In break room 106	Faucet, Cold	<1.0	Pass	Testing Complete
LW08702	In classroom 246	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08704	In classroom 249	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08706	In classroom 242	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08708	In classroom 245	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08907	In classroom 235	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08910	In classroom 214	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08912	In classroom 210	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW08914	In classroom 207	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M29101	In health 102C	Faucet, Cold	<1.0	Pass	Testing Complete
M29102	In hallway next to 116	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29103	In hallway next to 116	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29111	In hallway left of 178	Drinking Water Fountain - Cooler/Chiller Style	1.1	Pass	Testing Complete
M29112	In hallway left of 178	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M29124	In classroom 179	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29128	In classroom 172	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29130	In classroom 175	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29145	In kindergarten 155	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M29142	In kindergarten 157	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

Little Bennett Elementary School
23930 Burdette Forest Road
Clarksburg, MD 20871

Report Date: February 16th, 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	10/22/2021
# of Outlets Tested	80
# of Outlets \geq 5 ppb	3

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 Little Bennett ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW08663	In classroom 138	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
LW08664	In classroom 141	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08666	In classroom 142	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08667	In kindergarten 157	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08669	In kindergarten 165	Classroom Combination Sink	26.6	Fail	<1	Testing Complete
LW08670	In kindergarten 165	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08684	In classroom 169	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08685	In classroom 173	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08686	In classroom 175	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW08687	In classroom 172	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08688	In classroom 179	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08689	In classroom 176	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08690	In classroom 176	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08691	In classroom 181	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08693	In art 128	Classroom Combination Sink	12.5	Fail	<1	Testing Complete
LW08694	In art 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08695	In music 126	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08697	In music 126	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08698	In break room 106	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW08699	In work room 100C	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW08700	In classroom 258	Classroom Sink	1.2	Pass	N/A	Testing Complete
LW08701	In classroom 246	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08702	In classroom 246	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08703	In classroom 249	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08704	In classroom 249	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08705	In classroom 242	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08706	In classroom 242	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08707	In classroom 245	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08708	In classroom 245	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08709	In classroom 239	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW08905	In classroom 243	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW08906	In classroom 235	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08907	In classroom 235	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08909	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08910	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08911	In classroom 211	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW08912	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08913	In classroom 207	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08914	In classroom 207	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
M29101	In health 102C	Nurses Office Sink	2.7	Pass	N/A	Testing Complete
M29102	In hallway next to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29103	In hallway next to 116	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29110	In work room 111 in media center	Classroom Sink	<1	Pass	N/A	Testing Complete
M29111	In hallway left of 178	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29112	In hallway left of 178	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29124	In classroom 179	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29128	In classroom 172	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29130	In classroom 175	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29132	In classroom 173	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29142	In kindergarten 157	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29144	In kindergarten 155	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29145	In kindergarten 155	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29147	In classroom 151	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29148	In classroom 151	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29155	In classroom 138	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29156	In classroom 137	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29158	In hallway next to 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29159	In hallway next to 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29171	In kitchen	Kitchen Sink	1.6	Pass	N/A	Testing Complete
M29173	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M29174	In kitchen	Kitchen Sink	1.1	Pass	N/A	Testing Complete
M29179	In music 122	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
M29180	In music 122	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete

M29181	In music 124	Classroom Sink	<1	Pass	N/A	Testing Complete
M29185	In hallway In front of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29186	In hallway In front of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29196	In hallway next to 248	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29197	In hallway next to 248	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29217	In classroom 239	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
M29219	In classroom 211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29220	In hallway next to 206	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29221	In hallway next to 206	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29231	In office 203	Classroom Sink	1.9	Pass	N/A	Testing Complete
M29236	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29238	In classroom 231	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29240	In classroom 227	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29241	In classroom 227	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29242	In classroom 225	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
M29243	In classroom 225	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing Complete
M29244	In classroom 221	Classroom Combination Sink	7.4	Fail	<1	Testing Complete



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

August 30, 2019

Executive Summary:

Little Bennett Elementary School

23930 Burdette Forest Road

Clarksburg, Maryland 20871

Round of Testing:	Post-Remediation Follow-up
Sample Date	1/31/19
# of Outlets Tested:	1
# of Outlets ≥ 5 ppb:	0
Low Value (ppb):	2.2
High Value (ppb):	2.2

Project Status

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

Work Room Media Center 111 - Outlet (M29110) 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: Little Bennett Elementary School

23930 Burdette Forest Road
Clarksburg, Maryland 20871

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 Little Bennett Elementary School, located at 23930 Burdette Forest Road in Clarksburg, Maryland 20871.

SCOPE OF SERVICES

One drinking water outlet was remediated at Little Bennett 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 1/31/19 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
M29110	111	Work Room Media Center		Faucet	21.8	<1.0	2.2	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service

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 DRINKING WATER TESTING 2018

June 8, 2018

Executive Summary:
Little Bennett Elementary School
23930 Burdette Forest Rd,
Clarksburg, MD 20871

Round of Testing:	Initial
# of Outlets Tested:	93
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	21.8
Follow-Up Testing Required (Samples \geq 20 ppb):	Room 111 (21.8 ppb)

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

Project Status
Testing Complete: Remediation Plan

Classroom 111– Replace fixture (M29110), in addition to supply line and valve located under sink



June 8, 2018

Mr. Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Burtonsville, Maryland 20879

Re: Lead in Water Testing Service

Location: Little Bennett Elementary School
23930 Burdette Forest Rd
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 Little Bennett Elementary School, located at 23930 Burdette Forest Rd Clarksburg, MD 20871.

Scope of Services:

PSI conducted lead in water testing at Little Bennett 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 4/17/18 and 4/18/18 to collect samples from 93 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 5/16/18.

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)
M29110	Classroom 111	4/18/18	21.8	5/16/18	ND

*ppb = parts per billion
ND = Non Detect

The initial lead in water sample results (4/18/18) and 30 second follow up results (5/16/18) 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

Little Bennett ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Little Bennett Elementary School (4/18/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08663	138	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08664	141	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08665	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08666	142	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08667	157	Kindergarten		Faucet	1.3	Pass	Testing Complete
LW08668	161	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08669	165	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08670	165	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08684	169	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08685	173	Classroom		Faucet	1.0	Pass	Testing Complete
LW08686	175	Classroom		Faucet	3.6	Pass	Testing Complete
LW08687	172	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08688	179	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08689	176	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08690	176	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08691	181	Classroom		Faucet	3.2	Pass	Testing Complete
LW08693	128	Art		Faucet	1.0	Pass	Testing Complete
LW08694	128	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08695	126	Music		Faucet	<1.0	Pass	Testing Complete
LW08696	126	Music		Faucet	<1.0	Pass	Testing Complete
LW08697	126	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08698	106	Break Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08699	100C	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW08700	258	Classroom		Faucet	1.4	Pass	Testing Complete
LW08701	246	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08702	246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08703	249	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08704	249	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08705	242	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08706	242	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08707	245	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08708	245	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08709	239	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08905	243	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08906	235	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08907	235	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08908	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08909	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08910	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08911	211	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08912	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08913	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08914	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M29099	102	Health		Faucet	5.9	Pass	Testing Complete
M29101	102C	Health		Faucet	<1.0	Pass	Testing Complete
M29102		Hallway	Next To 116	Cooler	<1.0	Pass	Testing Complete
M29103		Hallway	Next To 116	Cooler	<1.0	Pass	Testing Complete
M29110	111	Work Room Media Center		Faucet	21.8	Fail	Follow-Up Testing Needed
M29111	178	Hallway	Left Of 178	Cooler	<1.0	Pass	Testing Complete
M29112		Hallway	Left Of 178	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M29124	179	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29128	172	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29130	175	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29132	173	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29134	169	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29139	161	Kindergarten		Bubbler	<1.0	Pass	Testing Complete
M29142	157	Kindergarten		Bubbler	1.7	Pass	Testing Complete
M29144	155	Kindergarten		Faucet	1.9	Pass	Testing Complete
M29145	155	Kindergarten		Bubbler	3.5	Pass	Testing Complete
M29147	151	Classroom		Faucet	1.0	Pass	Testing Complete
M29148	151	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29151	142	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29155	138	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29156	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M29157	137	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29158		Hallway	Next To 134	Cooler	<1.0	Pass	Testing Complete
M29159		Hallway	Next To 134	Cooler	<1.0	Pass	Testing Complete
M29171		Kitchen		Faucet	1.5	Pass	Testing Complete
M29172		Kitchen		Faucet	19.0	Pass	Testing Complete
M29173		Kitchen		Faucet	1.9	Pass	Testing Complete
M29174		Kitchen		Faucet	<1.0	Pass	Testing Complete
M29179	122	Music		Faucet	3.7	Pass	Testing Complete
M29180	122	Music		Bubbler	4.2	Pass	Testing Complete
M29181	124	Music		Faucet	<1.0	Pass	Testing Complete
M29185		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
M29186		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
M29196		Hallway	Next To 248	Cooler	<1.0	Pass	Testing Complete
M29197		Hallway	Next To 248	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M29215	243	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29217	239	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29219	211	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29220		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
M29221		Hallway	Next To 206	Cooler	<1.0	Pass	Testing Complete
M29231	203	Office		Faucet	<1.0	Pass	Testing Complete
M29236	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M29238	231	Classroom		Faucet	3.0	Pass	Testing Complete
M29239	231	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29240	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M29240	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M29241	227	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29242	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M29243	225	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29244	221	Classroom		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Little Bennett Elementary School (5/16/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	30 Second Draw (PPB)	Status
M29110	111	Workroom	Faucet	1.3	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion
ND = Non Detect

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd 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.