

Montgomery County Public Schools Lead in Drinking Water Testing Report

Rolling Terrace Elementary School
705 Bayfield Street
Takoma Park, MD 20912

Report Date: July 18th, 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	49
# 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 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 Rolling Terrace ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW03352	In conference room by administration	Teachers Lounge Sink	1.0	Pass	Testing Complete
LW03353	In kitchen	Kitchen Sink	<1.0	Pass	Testing Complete
LW03355	In music INT	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03357	In classroom C103	Classroom Combination Drinking Fountain	2.0	Pass	Testing Complete
LW03359	In classroom C101	Classroom Combination Drinking Fountain	2.9	Pass	Testing Complete
LW03360	In hallway by gymnasium	Drinking Fountain	<1.0	Pass	Testing Complete
LW03361	In hallway by gymnasium	Drinking Fountain	<1.0	Pass	Testing Complete
LW03363	In classroom C100	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03365	In classroom B110	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03367	In classroom B111	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03369	In classroom B109	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03371	In classroom B108	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03374	In break room	Teachers Lounge Sink	<1.0	Pass	Testing Complete
LW03376	In classroom B104	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03378	In classroom B102	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW03382	In classroom B105	Classroom Combination Drinking Fountain	4.4	Pass	Testing Complete
LW03384	In classroom B101	Classroom Combination Drinking Fountain	1.0	Pass	Testing Complete
LW03386	In classroom B100	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03387	In health room 103	Nurses Office Sink	<1.0	Pass	Testing Complete
LW03388	In health room 111	Nurses Office Sink	2.4	Pass	Testing Complete
LW03390	In classroom A104	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03391	Health suit room 103	Classroom Combination Sink	2.4	Pass	Testing Complete
LW03392	Health suite 103	Nurses Office Sink	4.4	Pass	Testing Complete
LW03395	In hallway A100	Drinking Fountain	<1.0	Pass	Testing Complete
LW03400	In classroom A103	Classroom Combination Drinking Fountain	6.5	Fail	Remediation Action Plan
LW03406	In classroom B204	Classroom Combination Drinking Fountain	1.2	Pass	Testing Complete
LW03410	In classroom B200	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW03416	In classroom A200	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW05108	In classroom B210	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW05110	In classroom B212	Classroom Combination Drinking Fountain	2.0	Pass	Testing Complete
LW05112	In classroom B214	Classroom Combination Drinking Fountain	1.5	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW05114	In classroom C200	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW05116	In classroom C205	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW05118	In classroom C203	Classroom Combination Drinking Fountain	1.0	Pass	Testing Complete
LW05121	In hallway across from C200	Drinking Fountain	<1.0	Pass	Testing Complete
LW05122	In hallway across from C200	Drinking Fountain	<1.0	Pass	Testing Complete
LW05124	In classroom C202	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
LW05126	In classroom B213	Classroom Combination Drinking Fountain	4.1	Pass	Testing Complete
LW05128	In classroom B211	Classroom Combination Drinking Fountain	1.6	Pass	Testing Complete
M03373	In work room by admin	Teachers Lounge Sink	<1.0	Pass	Testing Complete
M03447	In kitchen by all purpose room ie. back wall	Kitchen Sink	1.2	Pass	Testing Complete
M03448	In kitchen by all purpose room ie. back wall	Kitchen Sink	2.0	Pass	Testing Complete
M03449	In kitchen by all purpose room ie. back wall	Kitchen Sink	<1.0	Pass	Testing Complete
M44661	In hallway across from CR A202	Drinking Fountain	<1.0	Pass	Testing Complete
Lw03404	Classroom B206	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
Lw05120	Classroom C201	Classroom Combination Drinking Fountain	1.2	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
Lw03380	Classroom B107	Classroom Combination Drinking Fountain	1.7	Pass	Testing Complete
LW03396	HW across a 100	Drinking Fountain	<1.0	Pass	Testing Complete
LW12930	HW across a 100	Drinking Fountain	<1.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

Rolling Terrace Elementary School
705 Bayfield Street
Takoma Park, MD 20912

Report Date: March 18th, 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	81
# of Outlets \geq 5 ppb	5

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 Rolling Terrace ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03352	In conference room by administration ie. inside of	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
LW03354	In music INT	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03355	In music INT	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing complete
LW03356	In classroom C103	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03357	In classroom C103	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03359	In classroom C101	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03360	In hallway by gymnasium ie. across from	Drinking Fountain	<1	Pass	N/A	Testing complete
LW03361	In hallway by gymnasium ie. across from	Drinking Fountain	<1	Pass	N/A	Testing complete
LW03362	In classroom C100	Classroom Combination Sink	2.5	Pass	N/A	Testing complete
LW03363	In classroom C100	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03364	In classroom B110	Classroom Combination Sink	6.4	Fail	NC	Remediation Action Plan
LW03365	In classroom B110	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03366	In classroom B111	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03367	In classroom B111	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03368	In classroom B109	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03369	In classroom B109	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03370	In classroom B108	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03371	In classroom B108	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing complete
LW03372	In classroom B106	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03373	In classroom B106	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03374	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
LW03375	In classroom B104	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03376	In classroom B104	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03377	In classroom B102	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03378	In classroom B102	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03381	In classroom B105	Classroom Combination Sink	1.1	Pass	N/A	Testing complete

LW03382	In classroom B105	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03383	In classroom B101	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03384	In classroom B101	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03385	In classroom B100	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
LW03386	In classroom B100	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03387	In health room 103	Nurses Office Sink	1.2	Pass	N/A	Testing complete
LW03388	In health room 111 by health ie. inside of	Nurses Office Sink	1.6	Pass	N/A	Testing complete
LW03389	In classroom A104	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03390	In classroom A104	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03393	In classroom A102	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW03394	In classroom A102	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03395	In hallway A100 across from	Drinking Fountain	<1	Pass	N/A	Testing complete
LW03397	In classroom A100	Classroom Combination Sink	1.5	Pass	N/A	Testing complete
LW03399	In classroom A103	Classroom Combination Sink	2.3	Pass	N/A	Testing complete
LW03400	In classroom A103	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing complete
LW03402	In classroom A101	Classroom Combination Sink	4.6	Pass	N/A	Testing complete
LW03405	In classroom B204	Classroom Combination Sink	4.4	Pass	N/A	Testing complete
LW03406	In classroom B204	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW03409	In classroom B200	Classroom Combination Sink	1.2	Pass	N/A	Testing complete
LW03410	In classroom B200	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing complete
LW03411	In classroom A204	Classroom Combination Sink	9.0	Fail	NC	Remediation Action Plan
LW03412	In classroom A204	Classroom Combination Drinking Fountain	2.8	Pass	N/A	Testing complete
LW03415	In classroom A200	Classroom Combination Sink	1.2	Pass	N/A	Testing complete
LW03416	In classroom A200	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05106	In classroom B208	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05107	In classroom B210	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW05108	In classroom B210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05109	In classroom B212	Classroom Combination Sink	4.9	Pass	N/A	Testing complete
LW05110	In classroom B212	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete

LW05112	In classroom B214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05113	In classroom C200	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW05114	In classroom C200	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05115	In classroom C205	Classroom Combination Sink	1.9	Pass	N/A	Testing complete
LW05116	In classroom C205	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05117	In classroom C203	Classroom Combination Sink	5.5	Fail	NC	Remediation Action Plan
LW05118	In classroom C203	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05121	In hallway across from C200	Drinking Fountain	<1	Pass	N/A	Testing complete
LW05122	In hallway across from C200	Drinking Fountain	<1	Pass	N/A	Testing complete
LW05124	In classroom C202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05125	In classroom B213	Classroom Combination Sink	5.1	Fail	NC	Remediation Action Plan
LW05126	In classroom B213	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05128	In classroom B211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW05129	In classroom B205	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW05130	In classroom B205	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing complete
LW05131	In hallway across from CR A202	Drinking Fountain	<1	Pass	N/A	Testing complete
LW05132	In classroom A203	Classroom Combination Sink	3.0	Pass	N/A	Testing complete
M03373	In work room by admin	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
M03447	In kitchen by all purpose room ie. back wall	Kitchen Sink	<1	Pass	N/A	Testing complete
M03448	In kitchen by all purpose room ie. back wall	Kitchen Sink	<1	Pass	N/A	Testing complete
M03449	In kitchen by all purpose room ie. back wall	Kitchen Sink	<1	Pass	N/A	Testing complete
M44661	In hallway across from CR A202	Drinking Fountain	<1	Pass	N/A	Testing complete
LW03358	In classroom C101	Classroom Combination Sink	2.3	Pass	N/A	Testing complete
LW03353	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing complete
LW03391	Health suit room 103	Classroom Combination Sink	3.9	Pass	N/A	Testing complete
LW03392	Health suit 103	Nurses Office Sink	8.8	Fail	NC	Remediation Action Plan

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

October 30, 2019

Executive Summary:

Rolling Terrace Elementary School

705 Bayfield Street

Silver Spring, Maryland 20903

Round of Testing:	Post-Remediation Follow-up
Sample Date	2/1/2019
# of Outlets Tested:	2
# of Outlets \geq 5 ppb:	1
Low Value (ppb):	3
High Value (ppb):	5.5

Project Status

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

Classroom B107 - Outlet (LW03379) will have signage affixed

Classroom B214 - Outlet (LW05112) will be placed back into service



October 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: Rolling Terrace Elementary School

705 Bayfield Street
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 Rolling Terrace Elementary School, located at 705 Bayfield Street in Silver Spring, Maryland 20903.

SCOPE OF SERVICES

Two drinking water outlets were remediated at Rolling Terrace 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 2/1/2019 to collect post-remediation follow-up samples from 2 drinking water outlets that had been replaced. 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

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
LW03379	B107	Classroom		Faucet	21.6	1.9	5.5	Fail	Post-remediation follow-up testing complete. Outlet will have signage affixed
LW05112	B214	Classroom		Bubbler - Indoor	21.9	12.9	3	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 Lead in Drinking Water Testing 2018

April 27, 2018

Executive Summary:

Rolling Terrace Elementary School

705 Bayfield Street

Takoma Park, Maryland 20912

Round of Testing:	Initial
# of Outlets Tested:	85
# of Outlets ≥ 20 ppb:	2
Low Value (ppb):	<1.0
High Value (ppb):	21.9
Follow-Up Testing Required (Samples ≥ 20 ppb):	Classroom B107 (21.6 ppb) Classroom B214 (21.9 ppb)

Round of Testing:	Follow-Up - 30 sec draw
# of Outlets Tested:	2

Project Status:

Testing Complete: Remediation Plan

Classroom B107 - Replace fixture (LW03379), in addition to supply line and valve located under sink

Classroom B214 - Replace fixture (LW05112), in addition to supply line and valve located under sink



April 27, 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: Rolling Terrace Elementary School

705 Bayfield Street
Takoma Park, Maryland 20912

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 and follow-up lead in water testing at Rolling Terrace Elementary School, located at 705 Bayfield Street in Takoma Park, Maryland 20912.

SCOPE OF SERVICES

KCI conducted lead in water testing at Rolling Terrace 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 2/20/2018 and 2/21/2018 to collect samples from 85 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. On 4/11/2018, two 30 second follow-up samples were collected.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

RESULTS

There were two results of the 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)
LW03379	Faucet - Classroom B107	2/21/2018	21.6	4/11/2018	1.9
LW05112	Bubbler-Indoor - Classroom B214	2/21/2018	21.9	4/11/2018	12.9

The initial lead in water sample results (2/21/2018) and 30 second follow up results (4/11/2018) 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.

Initial Sample Results for Rolling Terrace Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PBB)*	Pass/Fail	Status
LW03352		Conference Room Administration	Inside Of	Faucet	<1.0	Pass	Testing Complete
LW03353		Kitchen All Purpose Room	Inside Of	Faucet	10.8	Pass	Testing Complete
LW03354	INTRM	Music		Faucet	2.4	Pass	Testing Complete
LW03356	C103	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03357	C103	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03358	C101	Classroom		Faucet	8.9	Pass	Testing Complete
LW03359	C101	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03360		Hallway Gymnasium	Across From	Cooler	<1.0	Pass	Testing Complete
LW03361		Hallway Gymnasium	Across From	Cooler	<1.0	Pass	Testing Complete
LW03362	C100	Classroom		Faucet	2.6	Pass	Testing Complete
LW03363	C100	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03364	B110	Classroom		Faucet	4.0	Pass	Testing Complete
LW03365	B110	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03366	B111	Classroom		Faucet	1.9	Pass	Testing Complete
LW03367	B111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03368	B109	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03369	B109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03370	B108	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03371	B108	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03372	B106	Classroom		Faucet	1.2	Pass	Testing Complete
LW03373	B106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03374		Break Room		Faucet	<1.0	Pass	Testing Complete
LW03375	B104	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03376	B104	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03377	B102	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03378	B102	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW03379	B107	Classroom		Faucet	21.6	Fail	Follow-up Testing Needed

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PBB)*	Pass/Fail	Status
LW03380	B107	Classroom		Bubbler - Indoor	9.8	Pass	Testing Complete
LW03381	B105	Classroom		Faucet	1.9	Pass	Testing Complete
LW03382	B105	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW03383	B101	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03384	B101	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW03385	B100	Classroom		Faucet	1.1	Pass	Testing Complete
LW03386	B100	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03387	103	Health Room		Faucet	<1.0	Pass	Testing Complete
LW03388	111	Health Room	Inside Of	Faucet	3.8	Pass	Testing Complete
LW03391	112	Health Room	Inside Of	Faucet	5.8	Pass	Testing Complete
LW03392	113	Health Room	Inside Of	Faucet	16	Pass	Testing Complete
LW03393	A102	Classroom		Faucet	1.6	Pass	Testing Complete
LW03395	A100	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW03396	A100	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW03397	A100	Classroom		Faucet	4.3	Pass	Testing Complete
LW03401	A101	Classroom		Faucet	5.2	Pass	Testing Complete
LW03403	B206	Classroom		Faucet	7.0	Pass	Testing Complete
LW03404	B206	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW03405	B204	Classroom		Faucet	4.7	Pass	Testing Complete
LW03406	B204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03407	B202	Classroom		Faucet	8.6	Pass	Testing Complete
LW03409	B200	Classroom		Faucet	4.9	Pass	Testing Complete
LW03410	B200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03411	A204	Classroom		Faucet	2.8	Pass	Testing Complete
LW03412	A204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03415	A200	Classroom		Faucet	2.4	Pass	Testing Complete
LW03417	A201	Classroom		Faucet	5.4	Pass	Testing Complete
LW05105	B208	Classroom		Faucet	5.7	Pass	Testing Complete
LW05106	B208	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW05107	B210	Classroom		Faucet	4.9	Pass	Testing Complete
LW05108	B210	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05110	B212	Classroom		Bubbler - Indoor	4.5	Pass	Testing Complete
LW05111	B214	Classroom		Faucet	7.2	Pass	Testing Complete
LW05112	B214	Classroom		Bubbler - Indoor	21.9	Fail	Follow-up Testing Needed
LW05114	C200	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW05115	C205	Classroom		Faucet	2.2	Pass	Testing Complete
LW05116	C205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05117	C203	Classroom		Faucet	2.9	Pass	Testing Complete
LW05118	C203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05119	C201	Classroom		Faucet	11.6	Pass	Testing Complete
LW05120	C201	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW05121		Hallway	Across From C200	Cooler	<1.0	Pass	Testing Complete
LW05122		Hallway	Across From C200	Cooler	<1.0	Pass	Testing Complete
LW05123	C202	Classroom		Faucet	5.4	Pass	Testing Complete
LW05124	C202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05125	B213	Classroom		Faucet	3.2	Pass	Testing Complete
LW05126	B213	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW05127	B211	Classroom		Faucet	6.5	Pass	Testing Complete
LW05128	B211	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05129	B205	Classroom		Faucet	1.0	Pass	Testing Complete
LW05130	B205	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW05131		Hallway	Across From Cr A202	Cooler	<1.0	Pass	Testing Complete
LW05132	A203	Classroom		Faucet	2.9	Pass	Testing Complete
M03373		Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M03447		Kitchen All Purpose Room	Back Wall	Faucet	3.8	Pass	Testing Complete
M03448		Kitchen All Purpose Room	Back Wall	Faucet	2.5	Pass	Testing Complete
M03449		Kitchen All Purpose Room	Back Wall	Faucet	<1.0	Pass	Testing Complete
M44661		Hallway	Across from CR A202	Cooler	<1.0	Pass	Testing Complete

*PPB = Parts per billion

Contractor: KCI Technologies, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Rolling Terrace Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PBB)*	Status
LW03379	B107	Classroom	Faucet	19.7	11.4	1.9	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW05112	B214	Classroom	Bubbler - Indoor	249	291	12.9	Remediation required – replace fixture, in addition to supply line and valve located under sink

*PPB = Parts per billion

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