

# Montgomery County Public Schools Lead in Drinking Water Testing Report

John F. Kennedy High School  
1901 Randolph Road  
Silver Spring, MD 20902

Report Date: March 24th, 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	2/11/2020
# of Outlets Tested	73
# of Outlets $\geq$ 5 ppb	0

## NEXT STEPS

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

## HEALTH EFFECTS OF LEAD

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

## **SOURCES OF HUMAN EXPOSURE TO LEAD**

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

### **TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:**

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

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

### **ADDITIONAL INFORMATION**

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

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

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

**ATTACHMENT A**

**Lead in Water Sample Results Table**

## Sampling Results for John F. Kennedy HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03047	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03048	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03049	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03050	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03051	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03052	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03053	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03054	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03055	In kitchen by kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW03056	In hallway outside of 252	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03057	In office 201	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03058	In office 200	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03059	In hallway outside of 276	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03060	In office 215 back office/kitchen	Kitchen Sink	1.5	Pass	N/A	Testing Complete
LW03061	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03062	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03063	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03064	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03065	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03066	In classroom 108C	Classroom Sink	1.1	Pass	N/A	Testing Complete
LW03067	In classroom 149	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03068	In hallway across from auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03069	In hallway outside of room 167	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03070	In hallway RR244	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03184	In hallway next to office 201	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03185	In hallway outside of 282	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03186	In hallway next to 135	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03187	In storage 149 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03188	In hallway across from 121	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW03190	In child development 132 by child development	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03191	In child development 132 by child development	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36423	In classroom 121 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
M36464	In hallway hallway across 124	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36465	In hallway hallway across 124	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36506	In classroom 133	Classroom Sink	2.1	Pass	N/A	Testing Complete
M36510	In classroom 133	Classroom Sink	2.0	Pass	N/A	Testing Complete
M36514	In child development 132 by child development	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36515	In child development 132 by child development	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36519	In hallway outside 132	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36520	In hallway outside 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36602	In hallway hallway across 103	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36604	In hallway outside 229	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36611	In office 227 by office	Classroom Sink	<1	Pass	N/A	Testing Complete
M36627	In hallway outside of 233	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36630	In office 241 by office	Classroom Sink	<1	Pass	N/A	Testing Complete
M36632	In hallway hallway across 243	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36651	In hallway across from 218	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36659	In break room 209 by break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M36664	In hallway outside Swbr 282	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36670	In office 222B by office	Classroom Sink	1.1	Pass	N/A	Testing Complete
M36671	In office 226	Classroom Sink	<1	Pass	N/A	Testing Complete
M36672	In hallway outside 228	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36724	In hallway gym hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
M38617	In work room by admin	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M38622	In work room 104B by counselor	Classroom Sink	<1	Pass	N/A	Testing Complete
M38623	In office 111 by health	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M38626	In classroom 113 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
M38629	In hallway outside 113	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08268	Across from classroom 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08269	In hallway behind stage in Auditorium near exterior door #22	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08270	Next to Men's bathroom room 172	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW08273	Next to Men's bathroom room #172	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08271	Next to Men's bathroom room #172	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08272	Next to Men's bathroom room #172	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08274	In room 133	Classroom Sink	1.8	Pass	N/A	Testing Complete
LW08275	In classroom 133	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW08276	In classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08278	In Classroom 133	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW08279	In hallway next to room 244	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08280	In hallway across 243	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08163	In hallway next to RR 287	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08277	In CR 133	Classroom Sink	<1	Pass	N/A	Testing Complete
LW08154	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete



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

### Executive Summary:

#### John F. Kennedy High School

1901 Randolph Road

Silver Spring, Maryland 20902

Date of Test Report:	3/19/2018
Round of Testing:	Initial
# of Outlets Tested:	50
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.7

### Project Status:

Initial testing complete: All results less than 20 ppb.



3/19/2018

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: John F. Kennedy High School**

1901 Randolph Road  
Silver Spring, Maryland 20902

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of Initial lead in water testing at John F. Kennedy High School, located at 1901 Randolph Road in Silver Spring, Maryland 20902.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at John F. Kennedy High 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 2/13/2018 and 2/14/2018 to collect samples from 50 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water - Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

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



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## **RESULTS**

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 2/14/2018 are shown in Attachment A.

## **DISCUSSION**

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,  
KCI Technologies, Inc.



Kamau McAbee  
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for John F. Kennedy High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03048		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03049		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03050		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03051		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03054		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03055		Kitchen Kitchen		Icemaker	<1.0	Pass	Testing Complete
LW03056		Hallway	Outside Of Rm 252	Cooler	<1.0	Pass	Testing Complete
LW03057	201	Office		Faucet	<1.0	Pass	Testing Complete
LW03058	200	Office		Faucet	<1.0	Pass	Testing Complete
LW03060	215	Office	Back Office/kitchen	Faucet	<1.0	Pass	Testing Complete
LW03061	133	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03062	133	Classroom		Faucet	1	Pass	Testing Complete
LW03063	133	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03064	133	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03065	133	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03066	108C	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03068		Hallway	Across From Auditorium	Cooler	<1.0	Pass	Testing Complete
LW03070		Hallway		Cooler	<1.0	Pass	Testing Complete
LW03184		Hallway Hallway		Cooler	<1.0	Pass	Testing Complete
LW03185		Hallway Hallway	Outside Of 282	Cooler	<1.0	Pass	Testing Complete
LW03186		Hallway Hallway	Next To Rm 135	Cooler	<1.0	Pass	Testing Complete
LW03187	149	Storage Classroom		Faucet	<1.0	Pass	Testing Complete
LW03188		Hallway Hallway	Across From Rm 121	Cooler	<1.0	Pass	Testing Complete
LW03190	132	Child Development Child Development		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03191	132	Child Development Child Development		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36423	121	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
M36464		Hallway Hallway	Hallway Across 124	Cooler	<1.0	Pass	Testing Complete
MC36465		Hallway	Hallway Across 124	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M36506	133	Classroom		Faucet	2.7	Pass	Testing Complete
M36510	133	Classroom		Faucet	<1.0	Pass	Testing Complete
M36515	132	Child Development Child Development		Faucet	<1.0	Pass	Testing Complete
M36519		Hallway Hallway	Outside 132	Cooler	<1.0	Pass	Testing Complete
M36520		Hallway Hallway	Outside 134	Cooler	<1.0	Pass	Testing Complete
M36602		Hallway	Hallway Across 103	Cooler	<1.0	Pass	Testing Complete
M36604		Hallway Hallway	Outside 229	Cooler	<1.0	Pass	Testing Complete
M36611	227	Office Office		Faucet	<1.0	Pass	Testing Complete
M36627		Hallway	Outside Of Rm 233	Cooler	<1.0	Pass	Testing Complete
M36630	241	Office Office		Faucet	<1.0	Pass	Testing Complete
M36651		Hallway	Across From Rm 218	Cooler	<1.0	Pass	Testing Complete
M36659	209	Break Room Break Room		Faucet	<1.0	Pass	Testing Complete
M36664		Hallway Hallway	Outside Swbr 282	Cooler	<1.0	Pass	Testing Complete
M36670	222B	Office Office		Faucet	<1.0	Pass	Testing Complete
M36671	226	Office		Faucet	<1.0	Pass	Testing Complete
M36672		Hallway	Outside 228	Cooler	<1.0	Pass	Testing Complete
M36724		Hallway	Gym Hall	Cooler	<1.0	Pass	Testing Complete
M38617		Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M38622	104B	Work Room Counselor		Faucet	<1.0	Pass	Testing Complete
M38623	111	Office Health		Faucet	<1.0	Pass	Testing Complete
M38626	113	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
M38629		Hallway Hallway	Outside Rm 113	Cooler	<1.0	Pass	Testing Complete

\*PPB = parts per billion