

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Seneca Valley High School  
19401 Crystal Rock Drive  
Germantown, MD 20874

Report Date: June 7<sup>th</sup>, 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	12/14/2021
# of Outlets Tested	111
# 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](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 Seneca Valley HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW10262	In hallway next to classroom 4502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10263	In hallway adjacent to classroom 4502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10264	In hallway adjacent to classroom 4113	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10265	In hallway adjacent to classroom 4113	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10266	In hallway adjacent to classroom 4113	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10267	In hallway next to classroom 4613	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10268	In hallway by classroom 4613	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10269	In hallway adjacent to room 3120A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10270	In hallway adjacent to room 3120A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10271	In staff workroom 3205	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10272	In hallway adjacent to classroom 3212	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10273	In hallway adjacent to classroom 3212	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10274	In hallway adjacent to classroom 3502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10275	In hallway adjacent to classroom 3502	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10276	In hallway adjacent to classroom 3502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10277	In staff workroom 3507	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10278	In multipurpose room 3403	Classroom Sink	8.6	Fail	<1	Testing Complete
LW10280	In multipurpose room 3403	Classroom Sink	7.6	Fail	6.2	Testing Complete
LW10281	In multipurpose room 3403	Classroom Sink	14.0	Fail	<1	Testing Complete
LW10282	In hallway left of classroom 2119	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10283	In hallway left of classroom 2119	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10284	In hallway left of classroom 2119	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10285	In staff workroom 2203	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10286	In hallway adjacent to classroom 2212	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10287	In hallway left of classroom 2119	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10288	In office 2314	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10289	In hallway adjacent to classroom 2502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10290	In hallway adjacent to classroom 2502	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10291	In hallway adjacent to classroom 2502	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10292	In office 2517	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete

LW10293	In workroom 2110Q	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10294	In office 2407	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10295	In child development 1210	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10296	In child development 1210	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10297	In child development 1210	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10298	In hallway adjacent to child development 1214	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10299	In hallway adjacent to child development 1214	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10300	In office 1207	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10301	In LFI Lab 1203	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10302	In LFI Lab 1203	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10303	In 1112 health professions lab	Classroom Sink	1.2	Pass	N/A	Testing Complete
LW10304	In hallway adjacent to main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10305	In hallway adjacent to main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10306	In remote serving 1405F	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10307	In mail room 1104E	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10308	In media center workroom 1523B	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10348	In health suite 1535	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10349	In 1535F health assessment	Nurses Office Sink	2.2	Pass	N/A	Testing Complete
LW10350	In health suite 1537H (assessment room3)	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10351	In health suite (1537P Laboratory)	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10352	In health suite (1537T Assessment room2)	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10353	In staff lounge 1536	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10354	In hallway adjacent to men's restroom 1542	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10355	In hallway next to boy's restroom 1542	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10356	In hallway next to boy's restroom 1542	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10357	In testing room 1601	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10358	In NJROTC 1701 (1701D Canteen)	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10359	In hallway next to wrestling room 1713	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10360	In hallway next to wrestling room 1713	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10361	In hallway next to wrestling room 1713	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10362	In cafeteria	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10363	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10364	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW10365	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10366	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10367	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10368	In kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW10369	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10370	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10371	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10372	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10373	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10374	In hallway adjacent to 0801A Stage	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10375	In hallway adjacent to 0801A Stage	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10376	In hallway adjacent to 0801A Stage	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10377	In hallway adjacent to Team Room 4 0537	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10378	In hallway adjacent to Team Room 4 0537	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10379	In hallway adjacent to 0615 training	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10380	In hallway adjacent to 0615 training	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10381	In hallway adjacent to 0615 training room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10382	In hallway next to staff dining 0802	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10383	In hallway next to Staff dining 0802	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10384	In nurse suite (1537S Assessment Room 1)	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10385	In staff dining 0802	Teacher's Lounge Sink	4.2	Pass	N/A	Testing Complete
LW10386	In staff dining 0804	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
LW10452	In women's locker room 0731	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10453	In girl's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10454	In women's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10455	In boy's locker room	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10456	In boy's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10457	In men's locker rooms 0723	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10458	In room 0743	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10459	In instrumental room 0755	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10460	In auto lab 0913	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10461	In auto lab 0913	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10462	In women's dressing room 0501	Classroom Sink	<1	Pass	N/A	Testing Complete

LW10463	In makeup up room	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10464	In men's dressing room 0505	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10465	In concessions	Kitchen Sink	3.6	Pass	N/A	Testing Complete
LW10467	In concessions	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10468	In training room	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10469	In hallway next to 1519	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10470	In hallway next to 1519	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10471	In hallway next to 1519	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10472	In hallway next to 1508	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10473	In hallway next to classroom 1508	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10474	In classroom 1505	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10475	In classroom 1505	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11321	In room 4505	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW11322	In concessions 0805	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10466	In concessions	Kitchen Sink	<1	Pass	N/A	Testing Complete



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

May 14, 2018

### Executive Summary:

#### Seneca Valley High School

19401 Crystal Rock Drive  
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	25
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	16.2

### Project Status:

**Testing Complete: All results less than 20 ppb.**





May 14, 2018

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

Re: Drinking Water Testing

KCI Job #1214634193

**Location: Seneca Valley High School**

19401 Crystal Rock Drive  
Germantown, Maryland 20874

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 Seneca Valley High School, located at 19401 Crystal Rock Drive in Germantown, Maryland 20874.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Seneca Valley 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 4/19/2018 and 4/20/2018 to collect samples from 25 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 4/20/2018 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 Seneca Valley High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03812		Hallway	Across From Room 100	Cooler	<1.0	Pass	Testing Complete
LW03813		Kitchen		Faucet	16.2	Pass	Testing Complete
LW03814		Kitchen		Faucet	2.5	Pass	Testing Complete
LW03815		Kitchen		Faucet	1.9	Pass	Testing Complete
LW03818		Kitchen		Faucet	4.5	Pass	Testing Complete
LW03819		Cafeteria	Inside Of Cafeteria	Cooler	<1.0	Pass	Testing Complete
LW03820		Hallway	Next To Room 240	Cooler	<1.0	Pass	Testing Complete
LW03821		Hallway	Next To Room 233b	Cooler	<1.0	Pass	Testing Complete
LW03822		Hallway	Across From Room 230	Cooler	<1.0	Pass	Testing Complete
LW03823		Hallway	Next To Room217	Cooler	<1.0	Pass	Testing Complete
LW03825		Hallway	Across From Room 216	Cooler	<1.0	Pass	Testing Complete
LW03826	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03827	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03828	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03829		Hallway	Next To Elevator	Cooler	<1.0	Pass	Testing Complete
LW03830		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW03831		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW03832		Locker Room - Girls		Cooler	2.4	Pass	Testing Complete
LW03833		Hallway	Across From Back Of Gym	Cooler	<1.0	Pass	Testing Complete
LW03834		Hallway	Next To Music	Cooler	1.5	Pass	Testing Complete
LW03835		Hallway	In Front Of Room 105	Cooler	<1.0	Pass	Testing Complete
M06221		Kitchen	Back Wall 1c	Faucet	1.7	Pass	Testing Complete
M06222		Kitchen	Back Wall 1c	Faucet	1.6	Pass	Testing Complete
M06239	113C	Health		Faucet	1.3	Pass	Testing Complete
M06247		Hallway	1st floor Staff Work Room	Cooler	<1.0	Pass	Testing Complete

\*PPB = parts per billion