



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 22, 2018

Executive Summary:

Springbrook High School

201 Valley Brook Drive
Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	46
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.2

Project Status:

Testing Complete: All results less than 20 ppb.



May 22, 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: Springbrook High School

201 Valley Brook Drive
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valley Brook Drive in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Springbrook 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 4/16/2018 and 4/17/2018 to collect samples from 46 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water - Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

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

RESULTS

There 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 4/17/2018 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

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Springbrook High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05902	B-120	Kitchen Cafeteria		Icemaker	<1.0	Pass	Testing Complete
LW05903	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05904	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05905	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05906		Hallway	Next To B-117	Cooler	<1.0	Pass	Testing Complete
LW05907	C102A	Health Room		Faucet	3.2	Pass	Testing Complete
LW05908		Hallway	Outside Of C-106	Cooler	<1.0	Pass	Testing Complete
LW05909		Hallway	Outside Of C-106	Cooler	<1.0	Pass	Testing Complete
LW05910		Hallway	Outside Of G-112	Cooler	<1.0	Pass	Testing Complete
LW05911		Hallway	Across From F-108	Cooler	<1.0	Pass	Testing Complete
LW05912	E-116	Language Office		Faucet	<1.0	Pass	Testing Complete
LW05913	E-108	Day Care		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05914	D-104	Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW05915		Hallway	Outside Of D-3	Cooler	<1.0	Pass	Testing Complete
LW05916		Hallway	Outside Of D-3	Cooler	<1.0	Pass	Testing Complete
LW05917	G-305	Office Social Studies		Faucet	<1.0	Pass	Testing Complete
LW05918	F-303	English Office		Faucet	1.4	Pass	Testing Complete
LW05919	E-312	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39052	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39053	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39054	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39055	B-120	Kitchen Cafeteria		Faucet	1.4	Pass	Testing Complete
M39057	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M39059	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39060	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39062		Hallway	Next To B117	Cooler	<1.0	Pass	Testing Complete
M39075	B-119	Cafeteria		Cooler	<1.0	Pass	Testing Complete
M39078	A112	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M39476		Hallway	Across From F-106	Cooler	<1.0	Pass	Testing Complete
M39487		Hallway	Outside Of E-109	Cooler	<1.0	Pass	Testing Complete
M39491	E-108	Day Care		Faucet	<1.0	Pass	Testing Complete
M39502		Hallway	Outside Of Auditorium	Cooler	<1.0	Pass	Testing Complete
M39622	C201B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M39633		Hallway	Across From F-207	Cooler	<1.0	Pass	Testing Complete
M39634	F-201	Math		Faucet	1.3	Pass	Testing Complete
M39637		Hallway	Across From F-208	Cooler	<1.0	Pass	Testing Complete
M39639	F-215	Computer Lab		Faucet	<1.0	Pass	Testing Complete
M39650		Hallway	Outside Of G-202	Cooler	<1.0	Pass	Testing Complete
M39673		Hallway	Across From G-210	Cooler	<1.0	Pass	Testing Complete
M39745	C-306	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39746	C-310	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39757	E-307	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39760	F-303	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39761	F-308	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39773	G-322	Office		Faucet	<1.0	Pass	Testing Complete
M39774	G-322	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion