



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 5, 2018

Executive Summary:

Silver Creek Middle School

3701 Saul Road

Kensington, Maryland 20895

Round of Testing:	Initial
# of Outlets Tested:	65
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.8

Project Status:

Testing Complete: All results less than 20 ppb.



June 5, 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: Silver Creek Middle School

3701 Saul Road
Kensington, Maryland 20895

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 Silver Creek Middle School, located at 3701 Saul Road in Kensington, Maryland 20895.

SCOPE OF SERVICES

KCI conducted lead in water testing at Silver Creek Middle 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 5/1/2018 and 5/2/2018 to collect samples from 65 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 5/2/2018 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 Silver Creek Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04165	364	Gymnasium	Auxilliary	Cooler	<1.0	Pass	Testing Complete
LW04166	364	Gymnasium	Auxilliary	Cooler	<1.0	Pass	Testing Complete
LW04167	369	Lab	Tech	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04168	371	Office		Bubbler - Indoor	1.5	Pass	Testing Complete
LW04169	301	Lab	Multi	Faucet	1.0	Pass	Testing Complete
LW04170	301	Lab	Multi	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04171	301	Lab	Multi	Faucet	3.8	Pass	Testing Complete
LW04172	301	Lab	Multi	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04173	301	Lab	Multi	Faucet	1.4	Pass	Testing Complete
LW04174	301	Lab	Multi	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04175		Hallway	Between 424 And 426	Cooler	<1.0	Pass	Testing Complete
LW04176		Hallway	Between 424 And 426	Cooler	<1.0	Pass	Testing Complete
LW04177	461	Break Room		Faucet	<1.0	Pass	Testing Complete
LW04178		Hallway	Across From 461	Cooler	<1.0	Pass	Testing Complete
LW04179		Hallway	Across From 461	Cooler	<1.0	Pass	Testing Complete
LW04180		Hallway	Across From 461	Cooler	<1.0	Pass	Testing Complete
LW04181	416	Work Room		Faucet	<1.0	Pass	Testing Complete
LW04182	410	Office		Faucet	2.9	Pass	Testing Complete
LW11458	101	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW11459	101	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW11460	101	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW11461	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11462	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11463	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11464	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11465	118	Kitchen		Ice Maker	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW11466	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11467	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11468	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11469	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11470	118	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11471	108	Work Room		Faucet	<1.0	Pass	Testing Complete
LW11472		Hallway	Across From 100I	Cooler	<1.0	Pass	Testing Complete
LW11473		Hallway	Across From 100I	Cooler	<1.0	Pass	Testing Complete
LW11474		Hallway	Across From 100I	Cooler	<1.0	Pass	Testing Complete
LW11475	111	Health Room		Faucet	<1.0	Pass	Testing Complete
LW11476	111C	Office Health Room		Faucet	3.0	Pass	Testing Complete
LW11477	111G	Other (See Location Notes) Health Room	Inside Of	Faucet	2.3	Pass	Testing Complete
LW11478		Hallway	Outside Of 116	Cooler	<1.0	Pass	Testing Complete
LW11479		Hallway	Outside Of 116	Cooler	<1.0	Pass	Testing Complete
LW11480	116	Music		Faucet	1.5	Pass	Testing Complete
LW11481	116	Music		Faucet	<1.0	Pass	Testing Complete
LW11482		Hallway	Between 220 And 222	Cooler	<1.0	Pass	Testing Complete
LW11483		Hallway	Between 220 And 222	Cooler	<1.0	Pass	Testing Complete
LW11484		Hallway	Between 220 And 222	Cooler	<1.0	Pass	Testing Complete
LW11485	242	Work Room		Faucet	3.5	Pass	Testing Complete
LW11486	244	Work Room		Faucet	<1.0	Pass	Testing Complete
LW11487		Hallway	Between 254 And 256	Cooler	<1.0	Pass	Testing Complete
LW11488		Hallway	Between 254 And 256	Cooler	<1.0	Pass	Testing Complete
LW11489	262	Gymnasium		Cooler	<1.0	Pass	Testing Complete
LW11490	262	Gymnasium		Cooler	<1.0	Pass	Testing Complete
LW11491	262	Gymnasium		Cooler	<1.0	Pass	Testing Complete
LW11492	268	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW11493	268	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW11494	278	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW11495	278	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW11496	200A	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW11497	200A	Work Room Media Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11498		Hallway	Between 318 And 320	Cooler	<1.0	Pass	Testing Complete
LW11499		Hallway	Between 318 And 320	Cooler	<1.0	Pass	Testing Complete
LW11500	340	Work Room		Faucet	<1.0	Pass	Testing Complete
LW11501	342	Work Room		Faucet	<1.0	Pass	Testing Complete
LW11502		Hallway	Between 350 And 352	Cooler	<1.0	Pass	Testing Complete
LW11503		Hallway	Between 350 And 352	Cooler	<1.0	Pass	Testing Complete
LW11504		Hallway	Between 350 And 352	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion