



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 11, 2018

Executive Summary:

Dr. Sally K. Ride Elementary School

21301 Seneca Crossing Drive
Germantown, Maryland 20876

Round of Testing:	Initial
# of Outlets Tested:	78
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	8.8

Project Status:

Testing Complete: All results less than 20 ppb.



May 11, 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: Dr. Sally K. Ride Elementary School

21301 Seneca Crossing Drive
Germantown, Maryland 20876

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 Dr. Sally K. Ride Elementary School, located at 21301 Seneca Crossing Drive in Germantown, Maryland 20876.

SCOPE OF SERVICES

KCI conducted lead in water testing at Dr. Sally K. Ride 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 4/23/2018 and 4/24/2018 to collect samples from 78 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 4/24/2018 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 Dr. Sally K. Ride Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06175		Hallway Administration	Across From	Cooler	<1.0	Pass	Testing Complete
LW06176		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW06177		Hallway All Purpose Room	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW06178		Hallway All Purpose Room	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW06179		Language Office Reading		Bubbler - Indoor	8.8	Pass	Testing Complete
LW06180	6	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06181	18	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06182	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06183	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25394		Work Room	Wrkrm2	Faucet	2.1	Pass	Testing Complete
M25395	14	Classroom		Faucet	2.6	Pass	Testing Complete
M25396	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25397	16	Classroom		Faucet	4.5	Pass	Testing Complete
M25398	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25399	15	Classroom		Faucet	2.4	Pass	Testing Complete
M25401	17	Classroom		Faucet	2.4	Pass	Testing Complete
M25402	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25403	19	Classroom		Faucet	2.0	Pass	Testing Complete
M25404	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25460	18	Classroom		Faucet	<1.0	Pass	Testing Complete
M25461	18	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
M25464	22	Classroom		Faucet	1.1	Pass	Testing Complete
M25465	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25466	21	Classroom		Faucet	1.9	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M25468	23	Classroom		Faucet	1.7	Pass	Testing Complete
M25472	24	Classroom		Faucet	<1.0	Pass	Testing Complete
M25473	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25474	25	Classroom		Faucet	<1.0	Pass	Testing Complete
M25475	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25476	K1	Classroom		Faucet	1.1	Pass	Testing Complete
M25477	K1	Classroom		Faucet	2.3	Pass	Testing Complete
M25478	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25480	K2	Classroom		Faucet	2.5	Pass	Testing Complete
M25484	K3	Classroom		Faucet	2.5	Pass	Testing Complete
M25485	K3	Classroom		Faucet	1.2	Pass	Testing Complete
M25486	K3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25488	K4	Classroom		Faucet	2.9	Pass	Testing Complete
M25489	K4	Classroom		Faucet	2.5	Pass	Testing Complete
M25490	K4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25496		Break Room		Faucet	3.8	Pass	Testing Complete
M25502		Kitchen		Faucet	<1.0	Pass	Testing Complete
M25503		Kitchen		Faucet	2.4	Pass	Testing Complete
M25504		Kitchen		Faucet	1.5	Pass	Testing Complete
M25505		Kitchen		Faucet	1.2	Pass	Testing Complete
M25520		Language Office Reading		Faucet	4.2	Pass	Testing Complete
M25522		Music		Faucet	4.6	Pass	Testing Complete
M25523		Music		Bubbler - Indoor	1.3	Pass	Testing Complete
M25524		Dual Purpose Room		Faucet	1.8	Pass	Testing Complete
M25525		Dual Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25526		Hallway Dual Purpose Room	Across From	Cooler	<1.0	Pass	Testing Complete
M25530	2	Classroom		Faucet	1.5	Pass	Testing Complete
M25531	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M25532	4	Classroom		Faucet	2.2	Pass	Testing Complete
M25533	4	Classroom		Bubbler - Indoor	2.4	Pass	Testing Complete
M25534	3	Classroom		Faucet	1.3	Pass	Testing Complete
M25535	3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25536	1	Classroom		Faucet	1.3	Pass	Testing Complete
M25537	1	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
M25538	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M25547	6	Classroom		Faucet	2.2	Pass	Testing Complete
M25548	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25549	8	Classroom		Faucet	1.6	Pass	Testing Complete
M25550	8	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
M25551	7	Classroom		Faucet	1.9	Pass	Testing Complete
M25552	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25553	10	Classroom		Faucet	1.7	Pass	Testing Complete
M25554	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25555	9	Classroom		Faucet	1.4	Pass	Testing Complete
M25556	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25557	11	Classroom		Faucet	1.9	Pass	Testing Complete
M25558	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25560	12	Classroom		Faucet	<1.0	Pass	Testing Complete
M25561	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25562	13	Classroom		Faucet	<1.0	Pass	Testing Complete
M25563	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25567		Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M25568		Health Room Administration		Faucet	<1.0	Pass	Testing Complete
M25571		Admin		Faucet	3.0	Pass	Testing Complete

*PPB = parts per billion