



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 22, 2018

Executive Summary:

S. Christa McAuliffe Elementary School

12500 Wisteria Drive

Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	69
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	12.6

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: S. Christa McAuliffe Elementary School

12500 Wisteria 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 S. Christa McAuliffe Elementary School, located at 12500 Wisteria Drive in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at S. Christa McAuliffe 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 4/18/2018 and 4/19/2018 to collect samples from 69 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 4/19/2018 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 S. Christa McAuliffe Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05938		Health Room Administration		Faucet	1.5	Pass	Testing Complete
LW05939	2	Classroom		Faucet	2.1	Pass	Testing Complete
LW05940	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05941	4	Classroom		Faucet	2.2	Pass	Testing Complete
LW05942	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05943	1	Classroom		Faucet	1.0	Pass	Testing Complete
LW05944	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05945	3	Classroom		Faucet	2.8	Pass	Testing Complete
LW05946	3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05947	5	Classroom		Faucet	1.4	Pass	Testing Complete
LW05948	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05949	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05950	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05951	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05952	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05953	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05954	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05955	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05956	18	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW05957	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05958	26	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW06141	27	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06142	29	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
LW06144	31	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06146	34	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06147	36	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06148	35	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW06149	37	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06150	38	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06151	38	Classroom		Faucet	1.6	Pass	Testing Complete
LW06152	40	Classroom		Faucet	1.8	Pass	Testing Complete
LW06153	40	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06154	41	Dual Purpose Room		Bubbler - Indoor	8.4	Pass	Testing Complete
LW06155	42	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06156	42	Classroom		Faucet	2.1	Pass	Testing Complete
LW06157	43	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06158		Hallway Music	Across From	Cooler	<1.0	Pass	Testing Complete
LW06159		Hallway Administration	Across From	Cooler	<1.0	Pass	Testing Complete
LW06160	34	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M15261		Kitchen Cafeteria	in cafeteria	Faucet	3.3	Pass	Testing Complete
M15262		Kitchen		Faucet	3.3	Pass	Testing Complete
M15263		Kitchen Cafeteria	in cafeteria	Faucet	2.8	Pass	Testing Complete
M15264		Kitchen Cafeteria	in cafeteria	Faucet	3.2	Pass	Testing Complete
M15283	41	Dual Purpose Room		Faucet	1.2	Pass	Testing Complete
M15285	43	Classroom		Faucet	1.6	Pass	Testing Complete
M15291	37	Classroom		Faucet	1.6	Pass	Testing Complete
M15297	35	Classroom		Faucet	5.3	Pass	Testing Complete
M15299	36	Classroom		Faucet	1.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M15301	33	Classroom		Faucet	12.6	Pass	Testing Complete
M15303	34	Classroom		Faucet	2.2	Pass	Testing Complete
M15307	31	Classroom		Faucet	2.3	Pass	Testing Complete
M15309	30	Classroom		Faucet	3.5	Pass	Testing Complete
M15311	29	Classroom		Faucet	1.4	Pass	Testing Complete
M15313	28	Classroom		Faucet	8.5	Pass	Testing Complete
M15314	28	Classroom		Bubbler - Indoor	3.1	Pass	Testing Complete
M15315	27	Classroom		Faucet	1.7	Pass	Testing Complete
M15317	26	Classroom		Faucet	3.0	Pass	Testing Complete
M15319	25	Classroom		Faucet	2.6	Pass	Testing Complete
M15329		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M15333	18	Classroom		Faucet	<1.0	Pass	Testing Complete
M15335	16	Classroom		Faucet	<1.0	Pass	Testing Complete
M15340	14	Classroom		Faucet	1.4	Pass	Testing Complete
M15342	12	Classroom		Faucet	1.7	Pass	Testing Complete
M15344	10	Classroom		Faucet	<1.0	Pass	Testing Complete
M15352	8	Classroom		Faucet	1.8	Pass	Testing Complete
M15354	7	Classroom		Faucet	1.7	Pass	Testing Complete
M15356	6	Classroom		Faucet	1.5	Pass	Testing Complete
M15365		Counselor		Faucet	2.4	Pass	Testing Complete
M15368		Work Room Administration		Faucet	1.0	Pass	Testing Complete

*PPB = parts per billion