



Montgomery County Public Schools Lead in Drinking Water Testing 2018

April 30, 2018

Executive Summary:

Galway Elementary School

12612 Galway Drive
Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	125
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	13.5

Project Status:

Initial testing complete: All results less than 20 ppb.



April 30, 2018

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

Re: Drinking Water Testing

KCI Job #1214634191

Location: Galway Elementary School

12612 Galway 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 Galway Elementary School, located at 12612 Galway Drive in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Galway 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 4/4/2018 and 4/5/2018 to collect samples from 125 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 4/5/2018 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 Galway Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05851	129	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05852	129	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05853	143	Classroom		Faucet	1.0	Pass	Testing Complete
LW05854	148	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05855	013	Classroom		Faucet	<1.0	Pass	Testing Complete
M06580	102	Health Room		Faucet	<1.0	Pass	Testing Complete
M06581	102	Health Room		Faucet	1.6	Pass	Testing Complete
M06583	102C	Office Health Room		Faucet	<1.0	Pass	Testing Complete
M06584	100D	Work Room Administration		Faucet	1.4	Pass	Testing Complete
M06586	101	Art		Faucet	<1.0	Pass	Testing Complete
M06587	101	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06588	101	Art		Faucet	<1.0	Pass	Testing Complete
M06589	101	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06590	109	Art		Faucet	<1.0	Pass	Testing Complete
M06591	109	Art		Faucet	<1.0	Pass	Testing Complete
M06592	109	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06593	108	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M06594	108	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M06600	115	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M06601	115	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M06608	123	Music		Faucet	1.2	Pass	Testing Complete
M06609	123	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06610	136	Classroom		Faucet	<1.0	Pass	Testing Complete
M06611	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06612	132	Classroom		Faucet	1.4	Pass	Testing Complete
M06613	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06614	128	Classroom		Faucet	2.4	Pass	Testing Complete
M06615	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06616	124	ESOL		Faucet	<1.0	Pass	Testing Complete
M06617	124	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06618	122	Day Care		Faucet	<1.0	Pass	Testing Complete
M06619	122	Day Care		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06621	122A	Office Day Care		Faucet	<1.0	Pass	Testing Complete
M06622	174D	Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
M06623	174D	Kitchen Cafeteria		Faucet	3.1	Pass	Testing Complete
M06624	174D	Kitchen Cafeteria		Faucet	1.1	Pass	Testing Complete
M06625	174D	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M06631	185	Classroom		Faucet	<1.0	Pass	Testing Complete
M06632	185	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06634	181	Classroom		Faucet	2.5	Pass	Testing Complete
M06635	181	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06637	179	Classroom		Faucet	1.5	Pass	Testing Complete
M06638	179	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06640	175	Classroom		Faucet	1.1	Pass	Testing Complete
M06641	175	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06643	173	Classroom		Faucet	<1.0	Pass	Testing Complete
M06644	173	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06645	169	Classroom		Faucet	<1.0	Pass	Testing Complete
M06646	169	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06651	125	Office		Faucet	2.1	Pass	Testing Complete
M06652	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06653	167	Office	Learning Center Ms. Fox	Faucet	<1.0	Pass	Testing Complete
M06654	167	Office	Learning Center Fox	Bubbler - Indoor	<1.0	Pass	Testing Complete
M07548	129	Break Room		Faucet	<1.0	Pass	Testing Complete
M07555	162	Classroom		Faucet	1.5	Pass	Testing Complete
M07556	162	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07557	170	Classroom		Faucet	<1.0	Pass	Testing Complete
M07558	170	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27033	037	Classroom		Faucet	1.1	Pass	Testing Complete
M27034	037	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27035	038	Classroom		Faucet	<1.0	Pass	Testing Complete
M27036	038	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27037	035	Classroom		Faucet	1.2	Pass	Testing Complete
M27038	035	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27045	030	Classroom		Faucet	<1.0	Pass	Testing Complete
M27046	030	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27047	031	Classroom		Faucet	<1.0	Pass	Testing Complete
M27048	031	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27051	023	Classroom		Faucet	<1.0	Pass	Testing Complete
M27052	023	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27053	028	Classroom		Faucet	1.1	Pass	Testing Complete
M27054	028	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27055	019	Classroom		Faucet	<1.0	Pass	Testing Complete
M27056	019	Classroom		Bubbler	1.1	Pass	Testing Complete
M27057	024	Classroom		Faucet	<1.0	Pass	Testing Complete
M27058	024	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27059	017	Classroom		Faucet	<1.0	Pass	Testing Complete
M27060	017	Classroom		Bubbler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M27061	022	Classroom		Faucet	1.6	Pass	Testing Complete
M27062	022	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27064	013	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27065	018	Classroom		Faucet	1.0	Pass	Testing Complete
M27066	018	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27067	011	Classroom		Faucet	<1.0	Pass	Testing Complete
M27068	011	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27069	016	Classroom		Faucet	1.3	Pass	Testing Complete
M27070	016	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27075	057	Classroom		Faucet	<1.0	Pass	Testing Complete
M27076	057	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27078	053	Classroom		Faucet	1.1	Pass	Testing Complete
M27079	053	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27081	051	Classroom		Faucet	1.5	Pass	Testing Complete
M27082	051	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27084	047	Classroom		Faucet	<1.0	Pass	Testing Complete
M27085	047	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27087	045	Classroom		Faucet	<1.0	Pass	Testing Complete
M27088	045	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27090	041	Classroom		Faucet	<1.0	Pass	Testing Complete
M27091	041	Classroom		Bubbler	1.1	Pass	Testing Complete
M27092	008	Work Room		Faucet	13.5	Pass	Testing Complete
M27093	008	Work Room		Bubbler	<1.0	Pass	Testing Complete
M27096	159	Classroom		Faucet	<1.0	Pass	Testing Complete
M27097	159	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27098	157	Classroom		Faucet	<1.0	Pass	Testing Complete
M27099	157	Classroom		Bubbler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M27108	153	Classroom		Faucet	9.0	Pass	Testing Complete
M27109	153	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27110	153	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M27111	149	Classroom		Faucet	<1.0	Pass	Testing Complete
M27112	149	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27113	160	Classroom		Faucet	1.6	Pass	Testing Complete
M27114	160	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27115	145	Classroom		Faucet	<1.0	Pass	Testing Complete
M27116	145	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27117	156	Classroom		Faucet	<1.0	Pass	Testing Complete
M27118	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M27120	143	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27121	154	Classroom		Faucet	<1.0	Pass	Testing Complete
M27122	154	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27125	139	Classroom		Faucet	1.1	Pass	Testing Complete
M27126	139	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27127	150	Classroom		Faucet	1.5	Pass	Testing Complete
M27128	150	Classroom		Bubbler	<1.0	Pass	Testing Complete
M27129	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M27132	148	Classroom		Bubbler	<1.0	Pass	Testing Complete

*PPB = parts per billion