



## Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 1, 2018

### Executive Summary:

#### Great Seneca Creek Elementary School

13010 Dairymaid Drive  
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	86
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.3

### Project Status:

**Testing Complete: All results less than 20 ppb.**



June 1, 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: Great Seneca Creek Elementary School**

13010 Dairymaid 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 Great Seneca Creek Elementary School, located at 13010 Dairymaid Drive in Germantown, Maryland 20874.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Great Seneca Creek 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 4/19/2018 and 4/20/2018 to collect samples from 86 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.

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## **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 4/20/2018 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 Great Seneca Creek Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06161	137	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06162	155	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06163	155	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06164	157	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06165	175	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06167	176	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06168	124	Art		Faucet	<1.0	Pass	Testing Complete
LW06169	225	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06170	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06171	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06172	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06173	211	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06174	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28946	100 C	Work Room		Faucet	1.3	Pass	Testing Complete
M28947	106	Break Room		Faucet	1.0	Pass	Testing Complete
M28951	102	Health		Faucet	<1.0	Pass	Testing Complete
M28952	111	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M28959	116	Hallway	RT of GBR	Cooler	<1.0	Pass	Testing Complete
M28960	116	Hallway	RT of GBR	Cooler	<1.0	Pass	Testing Complete
M28961	181	Classroom		Faucet	<1.0	Pass	Testing Complete
M28962	181	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28971	181	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M28972	181	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M28975	176	Classroom		Faucet	<1.0	Pass	Testing Complete
M28977	172	Classroom		Faucet	<1.0	Pass	Testing Complete
M28978	172	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28979	175	Classroom		Faucet	<1.0	Pass	Testing Complete
M28981	173	Classroom		Faucet	<1.0	Pass	Testing Complete
M28982	173	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28983	169	Classroom		Faucet	<1.0	Pass	Testing Complete
M28984	169	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28985	165	Classroom		Faucet	<1.0	Pass	Testing Complete
M28986	165	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28988	161	Classroom		Faucet	<1.0	Pass	Testing Complete
M28989	161	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28991	157	Classroom		Faucet	<1.0	Pass	Testing Complete
M28997	151	Classroom		Faucet	<1.0	Pass	Testing Complete
M28998	151	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29000	142	Classroom		Faucet	<1.0	Pass	Testing Complete
M29001	142	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29002	141	Classroom		Faucet	<1.0	Pass	Testing Complete
M29003	141	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29004	135	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29005	135	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29007	137	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29008	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M29009	138	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29019	108	Kitchen		Faucet	1.5	Pass	Testing Complete
M29021	108	Kitchen		Faucet	<1.0	Pass	Testing Complete
M29022	108	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M29027	126	Music		Faucet	4.3	Pass	Testing Complete
M29028	126	Music		Faucet	3.4	Pass	Testing Complete
M29029	126	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29032	124	Art		Bubbler	<1.0	Pass	Testing Complete
M29034	128	Art		Faucet	<1.0	Pass	Testing Complete
M29035	128	Art		Bubbler	<1.0	Pass	Testing Complete
M29037	123	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M29038	123	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M29045	248	Girls Bathroom	Left	Cooler	<1.0	Pass	Testing Complete
M29046	248	Girls Bathroom	Left	Cooler	<1.0	Pass	Testing Complete
M29055	249	Classroom		Faucet	2.1	Pass	Testing Complete
M29056	249	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29057	246	Classroom		Faucet	<1.0	Pass	Testing Complete
M29058	246	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29059	242	Classroom		Faucet	<1.0	Pass	Testing Complete
M29060	242	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29061	245	Classroom		Faucet	<1.0	Pass	Testing Complete
M29062	245	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29063	243	Classroom		Faucet	<1.0	Pass	Testing Complete
M29064	243	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29065	239	Classroom		Faucet	1.4	Pass	Testing Complete
M29066	239	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29067	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M29068	235	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29069	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M29070	231	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29071	227	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M29072	227	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29075	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M29076	221	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29081	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M29082	210	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29083	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M29084	207	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29085	205	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29086	205	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete

\*PPB = parts per billion