



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 5, 2018

Executive Summary:

Bethesda Elementary School

7600 Arlington Road

Bethesda, Maryland 20814

Round of Testing:	Initial
# of Outlets Tested:	77
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	7.3

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: Bethesda Elementary School

7600 Arlington Road
Bethesda, Maryland 20814

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 Bethesda Elementary School, located at 7600 Arlington Road in Bethesda, Maryland 20814.

SCOPE OF SERVICES

KCI conducted lead in water testing at Bethesda 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 4/30/2018 and 5/1/2018 to collect samples from 77 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 5/1/2018 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 Bethesda Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW11417	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11418	228	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11419	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11420	215	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11421	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11422	213	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11423	226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11424	226	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11425	205A	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11426	205A	Special Ed		Faucet	<1.0	Pass	Testing Complete
LW11427	201	Special Ed		Faucet	7.3	Pass	Testing Complete
LW11428	201	Special Ed		Bubbler - Indoor	1.3	Pass	Testing Complete
LW11429	230	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11430	232	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11431	238	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11432	240	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11433	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11434	148	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11435	145	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11436	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11437	143	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11438	143	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11439	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11440	141	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW11441	146	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11442	144	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11443	144	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11444	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11445	136	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11446	151	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11447	153	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11448	162	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11449	161	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11450	159	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11451	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW11455	111	Break Room		Faucet	<1.0	Pass	Testing Complete
LW11456		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW11457		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M33317	151	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33320	153	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33323		Hallway	Outside 159	Cooler	<1.0	Pass	Testing Complete
M33325	159	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33326	161	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33327	162	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33328	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33330	238	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33331		Hallway	Outside 238	Cooler	<1.0	Pass	Testing Complete
M33335	232	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33338	230	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39858	216	Classroom		Faucet	<1.0	Pass	Testing Complete
M39859	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39860	203	Special Ed		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M39861	203	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39862		Hallway	Between 203 And 205a	Cooler	<1.0	Pass	Testing Complete
M39871	205B	Special Ed		Faucet	<1.0	Pass	Testing Complete
M39872	205B	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39879	224	Classroom		Faucet	<1.0	Pass	Testing Complete
M39880	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39881	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M39882	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39885	209	Classroom		Faucet	<1.0	Pass	Testing Complete
M39886	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39899	106	Work Room		Faucet	<1.0	Pass	Testing Complete
M39900		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M39902	133	Special Ed		Faucet	<1.0	Pass	Testing Complete
M39903	133	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39906	135	Classroom		Faucet	<1.0	Pass	Testing Complete
M39907	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39924	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M39925	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M39926		Hallway	Across From 146	Cooler	<1.0	Pass	Testing Complete
M39927	146	Classroom		Faucet	<1.0	Pass	Testing Complete
M39946	114	Music		Faucet	<1.0	Pass	Testing Complete
M39948		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
M39949		Kitchen All Purpose Room		Faucet	1.7	Pass	Testing Complete
M39950		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
M39951		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion