



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Kemp Mill Elementary School

411 Sisson Street

Silver Spring, Maryland 20902

Date of Test Report:	3/13/2018
Round of Testing:	Initial
# of Outlets Tested:	78
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.8

Project Status:

Initial testing complete; All results less than 20 ppb.



3/13/2018

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

Re: Drinking Water Testing

KCI Job #1214634186

Location: Kemp Mill Elementary School

411 Sisson Street
Silver Spring, Maryland 20902

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 Kemp Mill Elementary School, located at 411 Sisson Street in Silver Spring, Maryland 20902.

SCOPE OF SERVICES

KCI conducted lead in water testing at Kemp Mill 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 2/14/2018 and 2/15/2018 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 2/15/2018 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 Kemp Mill ES

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05205		Hallway Hallway	Across From Multi-prrm	Cooler	<1.0	Pass	Testing Complete
LW05206		Hallway Hallway	Across From Multi-prrm	Cooler	<1.0	Pass	Testing Complete
LW05207	200	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05208	200	Classroom Classroom		Faucet	1.3	Pass	Testing Complete
LW05209	200	Classroom Classroom		Faucet	1	Pass	Testing Complete
LW05210	200	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05211	201	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05212	200	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05213	202	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05214	202	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05215		Hallway Hallway	Across From Rm 204	Cooler	<1.0	Pass	Testing Complete
LW05216		Hallway Hallway	Across From Rm 204	Cooler	<1.0	Pass	Testing Complete
LW05217	204	Classroom Classroom		Faucet	1.1	Pass	Testing Complete
LW05218	204	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05219	206	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05220	205	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05221	205	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05222	208	Classroom Classroom		Faucet	1.4	Pass	Testing Complete
LW05223	208	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05224	207	Classroom Classroom		Faucet	1	Pass	Testing Complete
LW05225	207	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05226	209	Classroom Classroom		Faucet	1.3	Pass	Testing Complete
LW05227	209	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05228	210	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05229	210	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05230	212	Classroom Classroom		Faucet	2.3	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05232	211	Classroom Classroom		Faucet	1	Pass	Testing Complete
LW05233	211	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05234	214	Classroom Classroom		Faucet	1	Pass	Testing Complete
LW05235	214	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05236	216	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05237	216	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05238	213	Classroom Classroom		Faucet	2.8	Pass	Testing Complete
LW05239	213	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05240		Hallway Hallway	Outside Of Rm 218	Cooler	<1.0	Pass	Testing Complete
LW05241		Hallway Hallway	Outside Of Rm 218	Cooler	<1.0	Pass	Testing Complete
LW05242	218	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05243	218	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05244	217	Classroom Classroom		Faucet	1.5	Pass	Testing Complete
LW05245	217	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05246	215	Classroom Classroom		Faucet	2	Pass	Testing Complete
LW05247	215	Classroom Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05250		Health Room Health Room		Faucet	<1.0	Pass	Testing Complete
LW05251		Work Room Work Room		Faucet	<1.0	Pass	Testing Complete
LW05252	107	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05253	107	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05254	108	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05255	108	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05256		Office Media Center		Faucet	1.3	Pass	Testing Complete
LW05257	104	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05258	104	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05259	103	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05260	103	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05261		Hallway Hallway	Across From Rm 102	Cooler	<1.0	Pass	Testing Complete
LW05262		Hallway Hallway	Across From Rm 102	Cooler	<1.0	Pass	Testing Complete
LW05263	102	Art Art		Faucet	1.9	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05264	102	Art Art		Bubbler - Indoor	1.9	Pass	Testing Complete
LW05265	101	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05266	101	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05267	100	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05268	100	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05269	112	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05270	112	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05271	113	Classroom Classroom		Faucet	1.1	Pass	Testing Complete
LW05272	113	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05273	114	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05274	114	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05275	115	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05276	115	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05277	116	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05278	116	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05279	118	Speech Therapy Speech Therapy		Faucet	1.6	Pass	Testing Complete
LW05280	117	Classroom Classroom		Faucet	<1.0	Pass	Testing Complete
LW05281	117	Classroom Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M03039		Kitchen Kitchen		Faucet	1.6	Pass	Testing Complete
M03040		Kitchen Kitchen		Faucet	1.2	Pass	Testing Complete
M03041		Kitchen Kitchen		Faucet	1.3	Pass	Testing Complete
M03042		Kitchen Kitchen		Faucet	1	Pass	Testing Complete

*PPB = parts per billion