



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Forest Knolls Elementary School

10830 Eastwood Avenue

Silver Spring, Maryland 20901

Date of Test Report:	3/13/2018
Round of Testing:	Initial
# of Outlets Tested:	79
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	6.7

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: Forest Knolls Elementary School

10830 Eastwood Avenue
Silver Spring, Maryland 20901

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 Forest Knolls Elementary School, located at 10830 Eastwood Avenue in Silver Spring, Maryland 20901.

SCOPE OF SERVICES

KCI conducted lead in water testing at Forest Knolls 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 2/21/2018 and 2/22/2018 to collect samples from 79 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 2/22/2018 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 Forest Knolls ES

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02692		Hallway		Cooler	<1.0	Pass	Testing Complete
LW02693	44	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02695	42	Classroom		Faucet	3.4	Pass	Testing Complete
LW02724	27	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02725	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02726	16	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02727	12	Classroom		Faucet	1	Pass	Testing Complete
LW02728	12	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW02729	10	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02730	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02731	18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02732	8	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02733	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02734	6	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02790		Health Room		Faucet	1.1	Pass	Testing Complete
LW02791		Work Room		Faucet	<1.0	Pass	Testing Complete
LW02792		Kitchen		Faucet	1.4	Pass	Testing Complete
LW02793		Kitchen		Faucet	1.4	Pass	Testing Complete
LW02794		Indoor Kitchen		Faucet	1	Pass	Testing Complete
LW02795		Hallway		Cooler	<1.0	Pass	Testing Complete
LW02796		Hallway		Cooler	<1.0	Pass	Testing Complete
LW02797	52	Art		Faucet	<1.0	Pass	Testing Complete
LW02798	52	Art		Faucet	<1.0	Pass	Testing Complete
LW02799	52	Art		Faucet	<1.0	Pass	Testing Complete
LW02800	42	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02801	42	Classroom		Faucet	2.2	Pass	Testing Complete
LW02802		Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02803	38	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02804		Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02805	36	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02806	36	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02807	34	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02808	34	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02809	32	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02810	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02811	30	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02812	28	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03071		Break Room		Faucet	1.8	Pass	Testing Complete
LW03072		Hallway		Cooler	<1.0	Pass	Testing Complete
LW03112	26	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03113	55	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03114	55	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03115	57	Classroom		Faucet	6.7	Pass	Testing Complete
LW03116	55	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03117		Hallway		Cooler	<1.0	Pass	Testing Complete
LW03118		Hallway		Cooler	<1.0	Pass	Testing Complete
LW03119	31	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03120	33	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03121	29	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03122	24	Other (See Location Notes)	Occupational Health	Faucet	1.6	Pass	Testing Complete
LW03123	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04556	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04557	4	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04558	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04559		Hallway	Left Of 7 Office	Cooler	<1.0	Pass	Testing Complete
LW04560		Hallway	Left Of 7 Office	Cooler	<1.0	Pass	Testing Complete
LW04561	37	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04562	37	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04563	39	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04564	39	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04565	41	Classroom		Faucet	1.2	Pass	Testing Complete
LW04566	41	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04567	43	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04568		Hallway		Cooler	<1.0	Pass	Testing Complete
LW04569		Hallway		Cooler	<1.0	Pass	Testing Complete
LW04570		Hallway		Cooler	<1.0	Pass	Testing Complete
LW04571		Hallway		Cooler	<1.0	Pass	Testing Complete
LW05134	43	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05135	45	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05136	45	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05137	47	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05138	47	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW05139	49	Classroom		Faucet	2.4	Pass	Testing Complete
LW06362	49	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW06363	51	Classroom		Faucet	2.2	Pass	Testing Complete
LW06364	51	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M44314	1	Media Center		Faucet	2.1	Pass	Testing Complete
M44396		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
M44409	40			Faucet	2.3	Pass	Testing Complete

*PPB = parts per billion