



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

### Executive Summary:

#### Beverly Farms Elementary School

8501 Postoak Road

Potomac, Maryland 20854

Date of Test Report:	3/30/2018
Round of Testing:	Initial
# of Outlets Tested:	106
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.7

### Project Status:

Initial testing complete: All results less than 20 ppb.



3/30/2018

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

Re: Drinking Water Testing

KCI Job #1214634186

**Location: Beverly Farms Elementary School**

8501 Postoak Road  
Potomac, Maryland 20854

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 Beverly Farms Elementary School, located at 8501 Postoak Road in Potomac, Maryland 20854.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Beverly Farms 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 3/7/2018 and 3/8/2018 to collect samples from 106 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 3/8/2018 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 Beverly Farms Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB*)	Pass/Fail	Status
LW04826	238	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30388	100A	Health Room		Faucet	<1.0	Pass	Testing Complete
M30389	100A	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30391	100A2	Health Room Health	in Health	Faucet	1.7	Pass	Testing Complete
M30392	100A2	Health Room Health	inside Health	Bubbler - Indoor	<1.0	Pass	Testing Complete
M30393	100A3	Office Health	inside Health	Faucet	1.2	Pass	Testing Complete
M30394	100A3	Office Health	inside Health	Bubbler - Indoor	<1.0	Pass	Testing Complete
M30395	100C	Work Room Admin	inside Admin	Faucet	<1.0	Pass	Testing Complete
M30396	100C	Work Room Admin	inside Admin	Bubbler - Indoor	<1.0	Pass	Testing Complete
M30399	117	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30400	117	Music		Faucet	<1.0	Pass	Testing Complete
M30401	121	Art		Faucet	<1.0	Pass	Testing Complete
M30402	121	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30403	121	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30404	121	Art		Faucet	<1.0	Pass	Testing Complete
M30405	104	Dual Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30406	104	Dual Purpose Room		Faucet	<1.0	Pass	Testing Complete
M30408	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M30409	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30411	112	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30412	112	Classroom		Faucet	<1.0	Pass	Testing Complete
M30414	127	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30415	127	Classroom		Faucet	<1.0	Pass	Testing Complete
M30417	120	Work Room Media Center	inside 120 IMC	Faucet	<1.0	Pass	Testing Complete
M30418	120	Work Room Media Center	inside 120 IMC	Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB*)	Pass/Fail	Status
M30419	116	Classroom		Faucet	<1.0	Pass	Testing Complete
M30420	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30421	129	Classroom		Faucet	<1.0	Pass	Testing Complete
M30422	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30424	133	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30425	133	Classroom		Faucet	<1.0	Pass	Testing Complete
M30427	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30428	124	Classroom		Faucet	<1.0	Pass	Testing Complete
M30429	128	Classroom		Faucet	<1.0	Pass	Testing Complete
M30430	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30431	135	Classroom		Faucet	<1.0	Pass	Testing Complete
M30432	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30433	130	Classroom		Faucet	3.7	Pass	Testing Complete
M30434	130	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30436	139	Classroom		Faucet	<1.0	Pass	Testing Complete
M30437	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30439	141	Classroom		Faucet	<1.0	Pass	Testing Complete
M30440	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30445		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
M30446		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
M30448	145	Classroom		Faucet	<1.0	Pass	Testing Complete
M30449	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30450	109B	Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
M30451	109B	Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
M30452	109B	Kitchen Kitchen	inside Kitchen	Faucet	<1.0	Pass	Testing Complete
M30454	109D	Kitchenette All Purpose Room	inside APR	Faucet	<1.0	Pass	Testing Complete
M30455	109	Hallway	Next to 109 APR	Cooler	<1.0	Pass	Testing Complete
M30456	109	Hallway	Next to 109 APR	Cooler	<1.0	Pass	Testing Complete
M30457	105	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB*)	Pass/Fail	Status
M30465	101	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30466	101	Office		Faucet	1.3	Pass	Testing Complete
M30467	200	Break Room		Faucet	<1.0	Pass	Testing Complete
M30468	200	Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30469	201	Classroom		Faucet	<1.0	Pass	Testing Complete
M30470	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30474	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30475	205	Classroom		Faucet	<1.0	Pass	Testing Complete
M30480	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30481	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M30482		Hallway	Next to CR 213	Cooler	<1.0	Pass	Testing Complete
M30483		Hallway	Next to CR 213	Cooler	<1.0	Pass	Testing Complete
M30484	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30485	222	Classroom		Faucet	<1.0	Pass	Testing Complete
M30486	217	Classroom		Faucet	<1.0	Pass	Testing Complete
M30487	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30488	226	Classroom		Faucet	<1.0	Pass	Testing Complete
M30489	226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30490	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30491	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M30492	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30493	228	Classroom		Faucet	<1.0	Pass	Testing Complete
M30494	223	Classroom		Faucet	<1.0	Pass	Testing Complete
M30495	223	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30496	227	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30497	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M30499	238	Classroom		Faucet	<1.0	Pass	Testing Complete
M30500	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30501	240	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB*)	Pass/Fail	Status
M30502	229	Classroom		Faucet	<1.0	Pass	Testing Complete
M30503	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30504	246	Classroom		Faucet	<1.0	Pass	Testing Complete
M30505	246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30506	233	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30507	233	Classroom		Faucet	<1.0	Pass	Testing Complete
M30508	248	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30509	248	Classroom		Faucet	<1.0	Pass	Testing Complete
M30510	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M30511	235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30512	252	Classroom		Faucet	<1.0	Pass	Testing Complete
M30513	252	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30514	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30515	239	Classroom		Faucet	<1.0	Pass	Testing Complete
M30523	243	Classroom		Faucet	<1.0	Pass	Testing Complete
M30524	243	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30525	247	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30526	247	Classroom		Faucet	<1.0	Pass	Testing Complete
M30528	255	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30529	255	Classroom		Faucet	<1.0	Pass	Testing Complete
M30530	255	Hallway	Across from CR 255	Cooler	<1.0	Pass	Testing Complete
M30531	255	Hallway	Across from CR 255	Cooler	<1.0	Pass	Testing Complete
M30535	109D	Kitchenette All Purpose Room	inside APR	Bubbler - Indoor	<1.0	Pass	Testing Complete

\*PPB = parts per billion