



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

June 21, 2018

### Executive Summary:

#### Rosemary Hills Elementary School

2111 Porter Road

Silver Spring, Maryland 20910

Round of Testing:	Initial
# of Outlets Tested:	95
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	18.3

### Project Status:

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



June 21, 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: Rosemary Hills Elementary School**

2111 Porter Road  
Silver Spring, Maryland 20910

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 Rosemary Hills Elementary School, located at 2111 Porter Road in Silver Spring, Maryland 20910.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Rosemary Hills 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 5/2/2018 and 5/3/2018 to collect samples from 95 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 5/3/2018 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

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# 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 Rosemary Hills Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04183	100	Kindergarten		Faucet	1.4	Pass	Testing Complete
LW04184	100	Kindergarten		Bubbler - Indoor	1.2	Pass	Testing Complete
LW04185	101	Kindergarten		Faucet	3.1	Pass	Testing Complete
LW04186	101	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04187	103	Kindergarten		Faucet	2.2	Pass	Testing Complete
LW04188	103	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04189	102	Kindergarten		Faucet	1.4	Pass	Testing Complete
LW04190	102	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04191	104	Break Room		Faucet	1.1	Pass	Testing Complete
LW04192	109	Kitchen		Faucet	5.4	Pass	Testing Complete
LW04193	109	Kitchen		Faucet	9.5	Pass	Testing Complete
LW04194	109	Kitchen		Faucet	5.6	Pass	Testing Complete
LW04195	109	Kitchen		Faucet	12.3	Pass	Testing Complete
LW04196	153D	Special Ed		Faucet	<1.0	Pass	Testing Complete
LW04197	153C	Speech Therapy		Faucet	2.6	Pass	Testing Complete
LW04198	156	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04199	160	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04200	165	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04201	161	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04202		Hallway	Across From 257	Cooler	<1.0	Pass	Testing Complete
LW04203		Hallway	Across From 257	Cooler	<1.0	Pass	Testing Complete
LW04204	259B	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04205	256	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04206	260	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04207	265	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04208	261	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04209	300	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04210	301	Art		Faucet	<1.0	Pass	Testing Complete
LW04211	301	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04212	301	Art		Faucet	1.4	Pass	Testing Complete
LW04213	301	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04214	301	Art		Faucet	3.3	Pass	Testing Complete
LW04215	301	Art		Bubbler - Indoor	18.3	Pass	Testing Complete
LW04216	302	Classroom		Faucet	1.4	Pass	Testing Complete
LW04217	302	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW04218	304	Classroom		Faucet	1.9	Pass	Testing Complete
LW04219	304	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04220	400	Classroom		Faucet	1.6	Pass	Testing Complete
LW04221	400	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04222	401	Classroom		Faucet	2.0	Pass	Testing Complete
LW04223	401	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04224	306	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04226		Hallway	Across From 310	Cooler	<1.0	Pass	Testing Complete
LW04227	310	Work Room		Faucet	4.4	Pass	Testing Complete
LW04228	307	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW04229	307	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04232		Hallway	Next To 309	Cooler	<1.0	Pass	Testing Complete
LW04233		Hallway	Next To 309	Cooler	<1.0	Pass	Testing Complete
LW04235	318	Classroom		Faucet	3.2	Pass	Testing Complete
LW04238	402	Classroom		Faucet	1.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04239	402	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW04240	403	Classroom		Faucet	4.1	Pass	Testing Complete
LW04241	403	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW04242	319	Classroom		Faucet	5.4	Pass	Testing Complete
LW04243	319	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW04244	317	Classroom		Faucet	2.6	Pass	Testing Complete
LW04245	317	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04246	315	Classroom		Faucet	2.4	Pass	Testing Complete
LW04248		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW04249	214	Kindergarten		Faucet	2.6	Pass	Testing Complete
LW04250	214	Kindergarten		Bubbler - Indoor	2.3	Pass	Testing Complete
LW04251	216	Classroom		Faucet	1.5	Pass	Testing Complete
LW04252	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04253	215	Kindergarten		Faucet	1.5	Pass	Testing Complete
LW04254	215	Kindergarten		Bubbler - Indoor	5.1	Pass	Testing Complete
LW04255	213	Classroom		Faucet	2.1	Pass	Testing Complete
LW04256	213	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW04257	201	Health Room		Faucet	2.7	Pass	Testing Complete
LW04259		Work Room Office	Inside Of	Faucet	1.7	Pass	Testing Complete
LW04260		Work Room Office	Inside Of	Bubbler - Indoor	2.7	Pass	Testing Complete
LW04261		All Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW04262		All Purpose Room	Stage	Faucet	2.3	Pass	Testing Complete
LW04263		Hallway	Across From All Purpose Rm	Cooler	<1.0	Pass	Testing Complete
LW04264		Hallway	Between 110 And 112	Cooler	<1.0	Pass	Testing Complete
LW04265		Hallway	Across From All Purpose Rm	Cooler	<1.0	Pass	Testing Complete
LW04266	115	Reading		Faucet	<1.0	Pass	Testing Complete
LW04267	117	Classroom		Faucet	2.1	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04268	117	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04269	118	Special Ed		Faucet	4.5	Pass	Testing Complete
LW04270	118	Special Ed		Bubbler - Indoor	3.1	Pass	Testing Complete
LW04272	116	Music		Faucet	6.1	Pass	Testing Complete
LW04274	252	Reading		Faucet	<1.0	Pass	Testing Complete
M33269	115	Reading		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33273	153D	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33274	153C	Speech Therapy		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33275	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33276	161	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33277	165	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33280	252	Reading		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33286	256	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33287	260	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33288	261	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33289	265	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33290	160	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33291	259B	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*PPB = parts per billion