



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 27, 2018

Executive Summary:

Rock Creek Forest Elementary School

8330 Grubb Road

Chevy Chase, Maryland 20815

Round of Testing:	Initial
# of Outlets Tested:	111
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.2

Project Status:

Testing Complete: All results less than 20 ppb.



June 27, 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: Rock Creek Forest Elementary School

8330 Grubb Road
Chevy Chase, Maryland 20815

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 Rock Creek Forest Elementary School, located at 8330 Grubb Road in Chevy Chase, Maryland 20815.

SCOPE OF SERVICES

KCI conducted lead in water testing at Rock Creek Forest 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 5/3/2018 and 5/4/2018 to collect samples from 111 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 5/4/2018 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 Rock Creek Forest Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04042	161	Art		Faucet	<1.0	Pass	Testing Complete
LW04043	21	Classroom		Faucet	<1.0	Pass	Testing Complete
M32446	200	Classroom		Faucet	<1.0	Pass	Testing Complete
M32447	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32448	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32449	202	Classroom		Faucet	<1.0	Pass	Testing Complete
M32450	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32451	206	Classroom		Faucet	<1.0	Pass	Testing Complete
M32452	208	Classroom		Faucet	<1.0	Pass	Testing Complete
M32453	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32454	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32455	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M32456	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32457	215	Classroom		Faucet	<1.0	Pass	Testing Complete
M32461	219	Classroom		Faucet	<1.0	Pass	Testing Complete
M32462	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32463	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M32464	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32465	223	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32466	223	Classroom		Faucet	<1.0	Pass	Testing Complete
M32467		Hallway	Next to CR 220 & Across from BBR 225	Cooler	<1.0	Pass	Testing Complete
M32468		Hallway	Next to CR 220 & Across from BBR 225	Cooler	<1.0	Pass	Testing Complete
M32472	220	Classroom		Faucet	<1.0	Pass	Testing Complete
M32473	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32474	227	Classroom		Faucet	<1.0	Pass	Testing Complete
M32475	227	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32476	231	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M32477	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M32478	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32479	224	Classroom		Faucet	<1.0	Pass	Testing Complete
M32482	239	Classroom		Faucet	<1.0	Pass	Testing Complete
M32483	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32486	243	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32487	243	Classroom		Faucet	2.2	Pass	Testing Complete
M32488	230	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32489	230	Classroom		Faucet	<1.0	Pass	Testing Complete
M32493	247	Classroom		Faucet	<1.0	Pass	Testing Complete
M32494	247	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32495	232	Classroom		Faucet	<1.0	Pass	Testing Complete
M32496	232	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32497	251	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32498	251	Classroom		Faucet	<1.0	Pass	Testing Complete
M32499	236	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32500	236	Classroom		Faucet	1.3	Pass	Testing Complete
M32501	132	Classroom		Faucet	<1.0	Pass	Testing Complete
M32502	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32504	143	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32505	143	Classroom		Faucet	<1.0	Pass	Testing Complete
M32507	128	Classroom		Faucet	<1.0	Pass	Testing Complete
M32508	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32510	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32511	139	Classroom		Faucet	<1.0	Pass	Testing Complete
M32513	137	Office		Faucet	1.9	Pass	Testing Complete
M32514	137	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32515	133	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32516	133	Office		Faucet	1.4	Pass	Testing Complete
M32517	122	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M32518	122	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32520	131	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32521	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M32526	127	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32527	127	Classroom		Faucet	<1.0	Pass	Testing Complete
M32529		Hallway	Across from Rm 125	Cooler	<1.0	Pass	Testing Complete
M32530		Hallway	Across from Rm 125	Cooler	<1.0	Pass	Testing Complete
M32534	119	Break Room		Faucet	<1.0	Pass	Testing Complete
M32535	110	Work Room		Faucet	<1.0	Pass	Testing Complete
M32538	102	Health		Faucet	<1.0	Pass	Testing Complete
M32539	102A	Health	inside Health	Faucet	1.2	Pass	Testing Complete
M32544	105A	Office Media Center	inside IMC	Faucet	<1.0	Pass	Testing Complete
M32545	156	Classroom		Faucet	<1.0	Pass	Testing Complete
M32546	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32547	156	Classroom		Faucet	<1.0	Pass	Testing Complete
M32552	153	Music		Faucet	<1.0	Pass	Testing Complete
M32553	153	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32559	157	Music		Faucet	<1.0	Pass	Testing Complete
M32560	157	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32562	161	Art		Faucet	<1.0	Pass	Testing Complete
M32563	161	Art		Faucet	<1.0	Pass	Testing Complete
M32564	161	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32565		Hallway	Across from CR 161 Art	Cooler	<1.0	Pass	Testing Complete
M32566		Hallway	Across from CR 161 Art	Cooler	<1.0	Pass	Testing Complete
M32568		Kitchen		Faucet	2.0	Pass	Testing Complete
M32569		Kitchen		Faucet	<1.0	Pass	Testing Complete
M32570		Kitchen		Faucet	<1.0	Pass	Testing Complete
M32572	158A	Kitchenette All Purpose Room	inside 158 APR	Faucet	<1.0	Pass	Testing Complete
M32574	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M32575	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M32576		Hallway	Across from CR 005	Cooler	<1.0	Pass	Testing Complete
M32577		Hallway	Across from CR 005	Cooler	<1.0	Pass	Testing Complete
M32578	11	Classroom		Faucet	<1.0	Pass	Testing Complete
M32579	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32580	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32581	8	Classroom		Faucet	<1.0	Pass	Testing Complete
M32583	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32584	15	Classroom		Faucet	<1.0	Pass	Testing Complete
M32585	12	Classroom		Faucet	<1.0	Pass	Testing Complete
M32586	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32588	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32589	12	Classroom		Faucet	1.4	Pass	Testing Complete
M32595	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32596	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32597	25	Classroom		Faucet	<1.0	Pass	Testing Complete
M32598	18	Classroom		Faucet	<1.0	Pass	Testing Complete
M32599	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32604	31	Classroom		Faucet	<1.0	Pass	Testing Complete
M32605	31	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32606	22	Classroom		Faucet	<1.0	Pass	Testing Complete
M32607	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32610	35	Classroom		Faucet	<1.0	Pass	Testing Complete
M32611	35	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32923	158	All Purpose Room		Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion