



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Ashburton Elementary School

6314 Lone Oak Drive

Bethesda, Maryland 20817

Date of Test Report:	3/22/2018
Round of Testing:	Initial
# of Outlets Tested:	90
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	11.7

Project Status:

Initial testing complete: All results less than 20 ppb.



3/22/2018

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: Ashburton Elementary School

6314 Lone Oak Drive
Bethesda, Maryland 20817

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 Ashburton Elementary School, located at 6314 Lone Oak Drive in Bethesda, Maryland 20817.

SCOPE OF SERVICES

KCI conducted lead in water testing at Ashburton 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 2/28/2018 and 3/1/2018 to collect samples from 90 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 3/1/2018 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 Ashburton Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
E41225		Kitchen Kitchen		Faucet	1.8	Pass	Testing Complete
E41226		Kitchen Kitchen		Faucet	2.9	Pass	Testing Complete
E41230	222	Classroom		Faucet	<1.0	Pass	Testing Complete
E41237		Hallway	Next To Rm 228	Cooler	<1.0	Pass	Testing Complete
E41314		Hallway	Next To Rm 126	Cooler	<1.0	Pass	Testing Complete
LW05328		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05329		Kitchen		Faucet	11.4	Pass	Testing Complete
LW05330		Hallway	Across From Rm 214	Cooler	<1.0	Pass	Testing Complete
LW05331		Hallway	Across From Rm 214	Cooler	<1.0	Pass	Testing Complete
LW05332	224	Support Room		Faucet	2.1	Pass	Testing Complete
LW05333	225	Classroom		Faucet	1.5	Pass	Testing Complete
LW05334	225	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW05387	228	Classroom		Faucet	1	Pass	Testing Complete
LW05388	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05389	229	Classroom		Faucet	1.2	Pass	Testing Complete
LW05390	229	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW05391		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW05392	240	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05393	240	Art		Faucet	<1.0	Pass	Testing Complete
LW05394	240	Art		Faucet	<1.0	Pass	Testing Complete
LW05395	240	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05396	156	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05397	156	Classroom		Faucet	1.6	Pass	Testing Complete
LW05398	152	Classroom		Faucet	2.4	Pass	Testing Complete
LW05399	152	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05400	147	Classroom		Bubbler - Indoor	2.7	Pass	Testing Complete
LW05401	147	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05402	150	Break Room		Faucet	<1.0	Pass	Testing Complete
LW05403	145	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05404	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05405	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05406	141	Classroom		Faucet	4.1	Pass	Testing Complete
LW05407	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05408	139	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05409	135	Classroom		Faucet	1.4	Pass	Testing Complete
LW05410	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05411	132	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05412	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05413	133	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05414	133	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05415		Hallway	Outside Of Rm 131	Cooler	<1.0	Pass	Testing Complete
LW05416	118	Classroom		Faucet	3.9	Pass	Testing Complete
LW05417	118	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05418	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05419	124	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW05420		Hallway	Next To Rm 126	Cooler	<1.0	Pass	Testing Complete
LW05421	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05422	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05423	125	Classroom		Faucet	8.3	Pass	Testing Complete
LW05424	125	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW05425	123	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05426	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05427		Hallway	Next To Rm 121	Cooler	<1.0	Pass	Testing Complete
LW05428	117	Classroom		Faucet	2.5	Pass	Testing Complete
LW05429	117	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05430	110	Classroom		Faucet	4.2	Pass	Testing Complete
LW05431	110	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW05432	110	Classroom		Faucet	3.8	Pass	Testing Complete
LW05433	108	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05434	108	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05435	109	Break Room		Faucet	1.4	Pass	Testing Complete
LW05436	103	Classroom		Faucet	1.6	Pass	Testing Complete
LW05437	103	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05438	103	Classroom		Faucet	11.7	Pass	Testing Complete
LW05439	204	Work Room		Faucet	<1.0	Pass	Testing Complete
LW05440	207	Health Room		Faucet	<1.0	Pass	Testing Complete
LW05441	203	Office Media Center		Faucet	1.8	Pass	Testing Complete
LW05442	301	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05443	301	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05444	302	Support Room		Faucet	3	Pass	Testing Complete
LW05445	305	Classroom		Faucet	1	Pass	Testing Complete
LW05446	305	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05447	308	Classroom		Faucet	1.8	Pass	Testing Complete
LW05448	308	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05449	309	Classroom		Faucet	1.9	Pass	Testing Complete
LW05450	309	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05451		Hallway	Next To Rm 310	Cooler	<1.0	Pass	Testing Complete
LW05452	313	Classroom		Faucet	6.1	Pass	Testing Complete
LW05453	313	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW05454		Hallway	Across From Rm 318	Cooler	<1.0	Pass	Testing Complete
LW05455		Hallway	Across From Rm 318	Cooler	<1.0	Pass	Testing Complete
LW05457	318	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05458	320	Classroom		Faucet	1.1	Pass	Testing Complete
LW05459	320	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05460	321	Classroom		Faucet	2.5	Pass	Testing Complete
LW05461	321	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW05462	322	Classroom		Faucet	1.4	Pass	Testing Complete
LW05463	322	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05464	323	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05465	323	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion