



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 5, 2018

Executive Summary:

Northwest High School

13501 Richter Farm Road
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.5

Project Status:

Testing Complete: All results less than 20 ppb.



June 5, 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: Northwest High School

13501 Richter Farm Road
Germantown, Maryland 20874

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 Northwest High School, located at 13501 Richter Farm Road in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Northwest High 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 4/24/2018 and 4/25/2018 to collect samples from 47 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 4/25/2018 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 Northwest High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04490		Hallway	Across From 218a	Cooler	<1.0	Pass	Testing Complete
LW04491		Hallway	Right Of 282a	Cooler	<1.0	Pass	Testing Complete
LW04492		Hallway	Right Of 282a	Cooler	<1.0	Pass	Testing Complete
LW04493	200	Office		Faucet	<1.0	Pass	Testing Complete
LW04494		Hallway	Outside Of Imc	Cooler	<1.0	Pass	Testing Complete
LW04495		Hallway	Outside Of 124	Cooler	<1.0	Pass	Testing Complete
LW04496		Hallway	Across From 116	Cooler	<1.0	Pass	Testing Complete
LW04497		Hallway	Left Of 119	Cooler	<1.0	Pass	Testing Complete
LW04498		Hallway	Left Of 119	Cooler	<1.0	Pass	Testing Complete
LW04499		Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW04500		Hallway	Across From 115	Cooler	<1.0	Pass	Testing Complete
LW04501		Hallway	Right Of 180a	Cooler	<1.0	Pass	Testing Complete
LW04502		Hallway	Right Of 180a	Cooler	<1.0	Pass	Testing Complete
LW06401		Hallway	Left Of 176	Cooler	<1.0	Pass	Testing Complete
LW06402		Hallway	Left Of 176	Cooler	<1.0	Pass	Testing Complete
LW06403		Lobby		Cooler	<1.0	Pass	Testing Complete
LW06404		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW06405		Kitchen		Faucet	1.1	Pass	Testing Complete
LW06406		Kitchen		Faucet	2.5	Pass	Testing Complete
LW06407		Kitchen		Faucet	1.1	Pass	Testing Complete
LW06486		Administration	In Break Room	Faucet	<1.0	Pass	Testing Complete
LW06487		Hallway	Across From 311	Cooler	<1.0	Pass	Testing Complete
LW06488		Hallway	Across From 379	Cooler	<1.0	Pass	Testing Complete
LW06489		Hallway	Across From 379	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06491	261	Office		Faucet	<1.0	Pass	Testing Complete
M41465		Hallway	Across from CR 310	Cooler	<1.0	Pass	Testing Complete
M41513	333	Office		Faucet	<1.0	Pass	Testing Complete
M41517	335	Office		Faucet	<1.0	Pass	Testing Complete
M41519		Hallway	Next to CR 335	Cooler	<1.0	Pass	Testing Complete
M41561		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M41562		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M41616	105	Preschool	CCE	Cooler	<1.0	Pass	Testing Complete
M41628		Hallway	Across from CR 100	Cooler	<1.0	Pass	Testing Complete
M41638		Hallway	Next to 127A	Cooler	<1.0	Pass	Testing Complete
M41639		Hallway	Next to 127A	Cooler	<1.0	Pass	Testing Complete
M41648		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
M41662		Hallway	Across from Athletic Director	Cooler	<1.0	Pass	Testing Complete
M41663		Hallway	Across from Athletic Director	Cooler	<1.0	Pass	Testing Complete
M41700		Hallway	Next to 221B	Cooler	<1.0	Pass	Testing Complete
M41710		Hallway	Next to IMC	Cooler	<1.0	Pass	Testing Complete
M41713		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41714		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41716		Hallway	Aud Lobby	Cooler	<1.0	Pass	Testing Complete
M41725		Hallway	Next to 226B	Cooler	<1.0	Pass	Testing Complete
M41730	228	Social Studies Office		Faucet	<1.0	Pass	Testing Complete
M41740		Hallway	Outside Of 238	Cooler	<1.0	Pass	Testing Complete
M45527		Hallway	Across CR 116	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion