



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

### Executive Summary:

#### Thomas Edison High School of Technology

12501 Dalewood Drive

Silver Spring, Maryland 20906

Date of Test Report:	3/13/2018
Round of Testing:	Initial
# of Outlets Tested:	23
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	16.5

### Project Status:

Initial testing complete; All results less than 20 ppb.



3/13/2018

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: Thomas Edison High School of Technology**

12501 Dalewood Drive  
Silver Spring, Maryland 20906

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 Thomas Edison High School of Technology, located at 12501 Dalewood Drive in Silver Spring, Maryland 20906.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Thomas Edison High School of Technology 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 1/31/2018 and 2/1/2018 to collect samples from 23 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 2/1/2018 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

ATTACHMENT A

Lead in Water Test Summary Table

**Contractor:** KCI Technologies, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Sample Results for Thomas Edison High School of Technology

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02774	2210	Classroom		Faucet	5	Pass	Testing Complete
LW02775	2210	Classroom		Cooler	5.4	Pass	Testing Complete
LW02776	2212	Classroom		Icemaker	<1.0	Pass	Testing Complete
LW02777	2212	Classroom		Faucet	4.7	Pass	Testing Complete
LW02778	2200	Classroom		Cooler	3.5	Pass	Testing Complete
LW02779	2216	Other (See Location Notes)	Staff Lounge	Faucet	1.8	Pass	Testing Complete
LW02780	2232	Classroom		Cooler	16.5	Pass	Testing Complete
LW02781	2233	Classroom		Cooler	1.2	Pass	Testing Complete
LW02782	1120	Classroom		Cooler	2.0	Pass	Testing Complete
LW02783		Hallway Classroom	In Front Of	Cooler	<1.0	Pass	Testing Complete
LW02784	1127	Classroom		Cooler	2.9	Pass	Testing Complete
LW02856		Hallway	Across From	Cooler	1.0	Pass	Testing Complete
LW02857		Hallway	Outside Of	Cooler	1.1	Pass	Testing Complete
LW02859	2210	Classroom		Faucet	06.8	Pass	Testing Complete
LW02860	2210	Classroom		Faucet	11.6	Pass	Testing Complete
LW02861	2210	Classroom		Faucet	6	Pass	Testing Complete
LW02862	2210	Classroom		Faucet	5.1	Pass	Testing Complete
LW02863	2210	Classroom		Faucet	1.3	Pass	Testing Complete
LW02864	2210	Classroom		Icemaker	<1.0	Pass	Testing Complete
M21144		Hallway	Outside CR 2212	Cooler	2.4	Pass	Testing Complete
M21199		Hallway	Across from Admin	Cooler	1.8	Pass	Testing Complete
M21210	1119	Classroom		Cooler	10.1	Pass	Testing Complete
M21216	1111	Conference		Faucet	9.5	Pass	Testing Complete

\*PPB = parts per billion