KCI TECHNOLOGIES
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

Montgomery County Public Schools
Lead in Drinking Water Testing 2018

June 11, 2018

Executive Summary:
Lois P. Rockwell Elementary School
24555 Cutsail Drive
Damascus, Maryland 20872

Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets ≥20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	15.0

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

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June 11, 2018

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634191

Location: Lois P. Rockwell Elementary School
24555 Cutsail Drive
Damascus, Maryland 20872

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 Lois P. Rockwell Elementary School, located at 24555 Cutsail Drive in Damascus, Maryland 20872.

SCOPE OF SERVICES

KCI conducted lead in water testing at Lois P. Rockwell 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 3/22/2018 and 3/23/2018 to collect samples from 80 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 3/23/2018 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 Lois P. Rockwell Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
E41539		Music		Faucet	3.2	Pass	Testing Complete
E41540		Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
E41541		Music Dual Purpose Room		Faucet	9.4	Pass	Testing Complete
E41542		Music Dual Purpose Room		Bubbler - Indoor	14.2	Pass	Testing Complete
E41596		Kitchen		Faucet	1.6	Pass	Testing Complete
E41597		Kitchen All Purpose Room		Faucet	5.7	Pass	Testing Complete
E41598		Kitchen All Purpose Room		Faucet	4.2	Pass	Testing Complete
E41599		Kitchen All Purpose Room		Faucet	1.5	Pass	Testing Complete
E41601		Hallway	Next to JC 2	Cooler	<1.0	Pass	Testing Complete
LW05140		Hallway	Next To Mech Room 4	Cooler	<1.0	Pass	Testing Complete
LW05141	B14	Classroom		Faucet	7.1	Pass	Testing Complete
LW05142	B14	Classroom		Bubbler - Indoor	12.2	Pass	Testing Complete
LW05143	B13	Classroom		Faucet	1.8	Pass	Testing Complete
LW05144	B13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05145	B12	Classroom		Faucet	2.4	Pass	Testing Complete
LW05146	B12	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW05147	B11	Classroom		Faucet	2.1	Pass	Testing Complete
LW05148	B11	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW05149		Media Center Office		Faucet	2.9	Pass	Testing Complete
LW05150		Break Room		Faucet	<1.0	Pass	Testing Complete
LW05152		Work Room		Icemaker	<1.0	Pass	Testing Complete
LW05153		Work Room		Icemaker	<1.0	Pass	Testing Complete
LW05154		Work Room		Faucet	<1.0	Pass	Testing Complete
LW05155		Health Room		Faucet	<1.0	Pass	Testing Complete
LW05156		Health Room		Bubbler - Indoor	3.5	Pass	Testing Complete
LW05157	A1	Classroom		Faucet	2.5	Pass	Testing Complete
LW05158	A1	Classroom		Bubbler - Indoor	15.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05159	A1	Classroom		Faucet	1.9	Pass	Testing Complete
LW05160	PEPCR	Other (See Location Notes)	Inside Of A1	Faucet	1.3	Pass	Testing Complete
LW05161	A2	Classroom		Faucet	2.7	Pass	Testing Complete
LW05162	A2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05163	A2	Classroom		Faucet	1.4	Pass	Testing Complete
LW05164		Hallway Classroom	Next To A3	Cooler	<1.0	Pass	Testing Complete
LW05165		Hallway Classroom	Next To A3	Cooler	<1.0	Pass	Testing Complete
LW05166	A3	Classroom		Faucet	1.9	Pass	Testing Complete
LW05167	A3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05168	A3	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
LW05169	A4	Classroom		Faucet	1.0	Pass	Testing Complete
LW05170	A4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05171	A5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05172	A6	Classroom		Faucet	3.1	Pass	Testing Complete
LW05173	A6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05174	A7	Classroom		Faucet	1.3	Pass	Testing Complete
LW05175	A7	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW05176	A8	Classroom		Faucet	2.0	Pass	Testing Complete
LW05177	A8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05178	A9	Classroom		Faucet	1.6	Pass	Testing Complete
LW05179	A9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05180	A10	Classroom		Faucet	2.3	Pass	Testing Complete
LW05181	A10	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW05182	A11	Classroom		Faucet	1.8	Pass	Testing Complete
LW05183	A11	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW05185	A12	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05186		Hallway	Next To Jan. Clos. 2	Cooler	<1.0	Pass	Testing Complete
LW06336	B1	Classroom		Faucet	3.3	Pass	Testing Complete
LW06337	B1	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
LW06338	B2	Classroom		Faucet	1.7	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06339	B2	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW06340	B3	Classroom		Faucet	1.9	Pass	Testing Complete
LW06341	B3	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW06342	B4	Classroom		Faucet	3.8	Pass	Testing Complete
LW06343	B4	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
LW06344		Hallway	Next To B4	Cooler	<1.0	Pass	Testing Complete
LW06345		Hallway	Next To B4	Cooler	<1.0	Pass	Testing Complete
LW06346	B5	Classroom		Faucet	1.9	Pass	Testing Complete
LW06347	B5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06348	B6	Classroom		Faucet	1.5	Pass	Testing Complete
LW06349	B6	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW06350	B7	Classroom		Faucet	3.0	Pass	Testing Complete
LW06351	B7	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW06352	B8	Classroom		Faucet	2.5	Pass	Testing Complete
LW06353	B8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06354	B9	Classroom		Faucet	2.4	Pass	Testing Complete
LW06355	B9	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW06356	B10	Classroom		Faucet	2.1	Pass	Testing Complete
LW06357	B10	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW06358		Art		Faucet	<1.0	Pass	Testing Complete
LW06360		Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06361		Hallway	Next To Mech Room 4	Cooler	<1.0	Pass	Testing Complete
M05027		Music Storage	Band	Faucet	3.9	Pass	Testing Complete

*PPB = parts per billion