

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Albert Einstein High School
11135 Newport Mill Road
Kensington, MD 20895**

Report Date: August 13th, 2020

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/25/2020
# of Outlets Tested	63
# of Outlets \geq 5 ppb	3

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

**Please note that boiling the water will not reduce lead levels.*

ADDITIONAL INFORMATION

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead.
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Albert Einstein HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
F56646	In kitchen 116K	Ice Machine	<1	Pass	N/A	Testing complete
LW02031	In hallway In front of 116k kitchen	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02032	In hallway In front of 116k kitchen	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02033	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02034	In kitchen 116K	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02035	In kitchen 116K	Kitchen Sink	1.3	Pass	N/A	Testing complete
LW02036	In kitchen 116K	Kitchen Sink	1.1	Pass	N/A	Testing complete
LW02037	In kitchen 116K	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02038	In kitchen 116K	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02039	In kitchen 116K	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02040	In kitchen 116K	Kitchen Sink	1.2	Pass	N/A	Testing complete
LW02041	In kitchen 116K	Kitchen Sink	<1	Pass	N/A	Testing complete
LW02042	In hallway In front of 138	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02043	In hallway In front of 138	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02044	In hallway adjacent to classroom 150	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02045	In hallway adjacent to classroom 150	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02046	In hallway In front of 107	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02047	In hallway In front of 107	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02048	In office in workroom 100B	Classroom Sink	<1	Pass	N/A	Testing complete
LW02049	In locker room - boys	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02050	In hallway next to 1003	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02051	In hallway next to 1003	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02052	In Band 1007B	Classroom Sink	<1	Pass	N/A	Testing complete
LW02053	In hallway next to 192	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02054	In hallway next to 192	Drinking Fountain	<1	Pass	N/A	Testing complete

LW02055	In office 191 by music	Classroom Sink	1.3	Pass	N/A	Testing complete
LW02056	In hallway In front of 220	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02057	In hallway In front of 220	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02058	In hallway In front of 214	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02059	In hallway In front of 214	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02060	In math 207 by office	Classroom Sink	1.3	Pass	N/A	Testing complete
LW02063	In home economics 238	Home Economics Room Sink	<1	Pass	N/A	Testing complete
LW02064	In home economics 238	Home Economics Room Sink	13.1	Fail	NC	Remediation Action Plan
LW02065	In home economics 238	Home Economics Room Sink	<1	Pass	N/A	Testing complete
LW02066	In home economics 238	Home Economics Room Sink	1.2	Pass	N/A	Testing complete
LW02067	In home economics 238	Home Economics Room Sink	<1	Pass	N/A	Testing complete
LW02068	In home economics 238	Home Economics Room Sink	1.3	Pass	N/A	Testing complete
LW02069	In home economics 238	Home Economics Room Sink	1.1	Pass	N/A	Testing complete
LW02070	In home economics 238	Home Economics Room Sink	1.6	Pass	N/A	Testing complete
LW02071	In hallway In front of 3001	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02072	In hallway In front of 3001	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02073	In hallway next to 29	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02074	In hallway next to 29	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02075	In special ed 25	Classroom Sink	14.1	Fail	NC	Remediation Action Plan
LW02076	In classroom 22	Classroom Sink	<1	Pass	N/A	Testing complete
LW02077	In child development 19	Classroom Sink	<1	Pass	N/A	Testing complete
M42010	In break room 128	Teachers Lounge Sink	6.9	Fail	NC	Remediation Action Plan
M42013	In work room 119B	Classroom Sink	1.1	Pass	N/A	Testing complete
M42016	In english office 121	Classroom Sink	1.4	Pass	N/A	Testing complete
M42032	In social studies 149	Classroom Sink	<1	Pass	N/A	Testing complete
M42033	In break room 151	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
M42035	In health room 153	Nurses Office Sink	<1	Pass	N/A	Testing complete
M42039	In health room 153	Drinking Fountain	<1	Pass	N/A	Testing complete

M42040	In health room 153	Drinking Fountain	<1	Pass	N/A	Testing complete
M42061	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing complete
M42072	In hallway by auditorium ie. next to auditorium	Drinking Fountain	<1	Pass	N/A	Testing complete
M42073	In hallway by auditorium ie. next to auditorium	Drinking Fountain	<1	Pass	N/A	Testing complete
M42146	In hallway adjacent to classroom 22	Drinking Fountain	<1	Pass	N/A	Testing complete
M42147	In hallway adjacent to classroom 22	Drinking Fountain	<1	Pass	N/A	Testing complete
M42149	In math 29	Classroom Sink	<1	Pass	N/A	Testing complete
M43432	In work room 233	Classroom Sink	3.1	Pass	N/A	Testing complete
M43498	In office 259 by break room	Teachers Lounge Sink	1.2	Pass	N/A	Testing complete
LW08284	In hallway adjacent to women's locker room	Drinking Fountain	<1	Pass	N/A	Testing complete

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 3, 2018

Executive Summary:
Albert Einstein High School
11135 Newport Mill Rd
Kensington, MD 20895

Round of Testing:	Initial
# of Outlets Tested:	68
# of Outlets \geq 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	700
Follow-Up Testing Required (Samples \geq 20 ppb):	Kitchen (700 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	1

Project Status
Testing Complete: Remediation Plan

Kitchen – Replace fixture (M41997), in addition to supply line and valve located under sink



May 3, 2018

Mr. Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Testing Service

Location: Albert Einstein High School
11135 Newport Mill Rd
Kensington, MD 20895

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Albert Einstein High School, located at 8720 11135 Newport Mill Rd in Kensington, MD 20895.

Scope of Services:

PSI conducted lead in water testing at Albert Einstein 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.

PSI visited the site on 02/14/18 and 02/15/18 to collect samples from 68 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. One 30 second follow-up sample was collected on 4/11/18.

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 was one result of the initial lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:



Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
M41997	Kitchen	2/15/2018	700	4/11/18	1.3

The initial lead in water sample results (02/15/18) and 30 second follow up results (4/11/18) 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,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@psiusa.com

Attachments: A – Lead in Water Test Summary Table

ATTACHMENT A

Albert Einstein HS Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Albert Einstein High School (2/15/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
F56646	116K	Kitchen		Icemaker	<1.0	Pass	Testing Complete
LW02031		Hallway	In Front Of 116K Kitchen	Cooler	<1.0	Pass	Testing Complete
LW02032		Hallway	In Front Of 116K Kitchen	Cooler	<1.0	Pass	Testing Complete
LW02033		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02034	116K	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02035	116K	Kitchen		Faucet	1.4	Pass	Testing Complete
LW02036	116K	Kitchen		Faucet	1.1	Pass	Testing Complete
LW02037	116K	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02038	116K	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02039	116K	Kitchen		Faucet	1.8	Pass	Testing Complete
LW02040	116K	Kitchen		Faucet	2.2	Pass	Testing Complete
LW02041	116K	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02042		Hallway	In Front Of 138	Cooler	<1.0	Pass	Testing Complete
LW02043		Hallway	In Front Of 138	Cooler	<1.0	Pass	Testing Complete
LW02044		Hallway	Next To 139	Cooler	<1.0	Pass	Testing Complete
LW02045		Hallway	Next To 139	Cooler	<1.0	Pass	Testing Complete
LW02046		Hallway	In Front Of 107	Cooler	<1.0	Pass	Testing Complete
LW02047		Hallway	In Front Of 107	Cooler	<1.0	Pass	Testing Complete
LW02048		Work Room Admin		Faucet	1.4	Pass	Testing Complete
LW02050		Hallway	Next To 1003	Cooler	<1.0	Pass	Testing Complete
LW02051		Hallway	Next To 1003	Cooler	<1.0	Pass	Testing Complete
LW02052	1007B	Band		Faucet	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02053		Hallway	Next To 192	Cooler	<1.0	Pass	Testing Complete
LW02054		Hallway	Next To 192	Cooler	<1.0	Pass	Testing Complete
LW02055	191	Office Music		Faucet	1.4	Pass	Testing Complete
LW02056		Hallway	In Front Of 220	Cooler	<1.0	Pass	Testing Complete
LW02057		Hallway	In Front Of 220	Cooler	<1.0	Pass	Testing Complete
LW02058		Hallway	In Front Of 214	Cooler	<1.0	Pass	Testing Complete
LW02059		Hallway	In Front Of 214	Cooler	<1.0	Pass	Testing Complete
LW02060	207	Math Office		Faucet	1.7	Pass	Testing Complete
LW02061		Hallway	In Front Of 248	Cooler	<1.0	Pass	Testing Complete
LW02062		Hallway	In Front Of 248	Cooler	<1.0	Pass	Testing Complete
LW02063	238	Home Economics		Faucet	2.3	Pass	Testing Complete
LW02064	238	Home Economics		Faucet	2.9	Pass	Testing Complete
LW02065	238	Home Economics		Faucet	1.0	Pass	Testing Complete
LW02066	238	Home Economics		Faucet	1.3	Pass	Testing Complete
LW02067	238	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW02068	238	Home Economics		Faucet	1.8	Pass	Testing Complete
LW02069	238	Home Economics		Faucet	2.1	Pass	Testing Complete
LW02070	238	Home Economics		Faucet	4.2	Pass	Testing Complete
LW02071		Hallway	In Front Of 3001	Cooler	<1.0	Pass	Testing Complete
LW02072		Hallway	In Front Of 3001	Cooler	<1.0	Pass	Testing Complete
LW02073		Hallway	Next To 29	Cooler	<1.0	Pass	Testing Complete
LW02074		Hallway	Next To 29	Cooler	<1.0	Pass	Testing Complete
LW02075	25	Special Ed		Faucet	1.0	Pass	Testing Complete
LW02076	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02077	19	Child Development		Faucet	<1.0	Pass	Testing Complete
M41997	116K	Kitchen Cafeteria		Faucet	700	Fail	Follow-Up Testing Needed
M42010	128	Break Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M42013	119B	Work Room		Faucet	1.0	Pass	Testing Complete
M42016	121	English Office		Faucet	1.5	Pass	Testing Complete
M42032	149	Social Studies		Faucet	1.3	Pass	Testing Complete
M42033	151	Break Room		Faucet	<1.0	Pass	Testing Complete
M42035	153	Health Room		Faucet	<1.0	Pass	Testing Complete
M42039	155	Health Room Health		Cooler	<1.0	Pass	Testing Complete
M42040	155	Health Room Health		Cooler	<1.0	Pass	Testing Complete
M42061		Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M42072		Hallway Auditorium	Next To Auditorium	Cooler	<1.0	Pass	Testing Complete
M42073		Hallway Auditorium	Next To Auditorium	Cooler	<1.0	Pass	Testing Complete
M42131	09	Building Service - Office BS Office		Faucet	9.0	Pass	Testing Complete
M42146		Hallway	Next to 20R	Cooler	<1.0	Pass	Testing Complete
M42147		Hallway	Next to 21R	Cooler	<1.0	Pass	Testing Complete
M42149	29	Math		Faucet	<1.0	Pass	Testing Complete
M43432	233	Work Room		Faucet	1.3	Pass	Testing Complete
M43496	265	Special Ed		Faucet	11.8	Pass	Testing Complete
M43498	259	Office Break Room		Faucet	1.2	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Albert Einstein High School (4/11/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	Initial draw (3 rd) (PPB)	30 Second Draw (PPB)	Status
M41997	116K	Kitchen	Faucet	4.4	21.0	1.3	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.