

# Lead in Drinking Water – Public and Nonpublic Schools

## **IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S)** **Chesapeake City Elementary School**

### **ELEVATED LEAD WATER SAMPLE RESULT(S)**

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. On November 21, 2018, **fifty-one (51)** lead water samples were collected from **Chesapeake City Elementary School**. Of these lead water samples, **three (3)** had levels of lead exceeding the action level of 20 parts per billion (ppb) for lead in drinking water in school buildings. The elevated lead results from the sample(s) collected at Chesapeake City Elementary were as follows:

**30.3** parts per billion (ppb) **Kitchen wash sink (back right sink) (use: non-consumption)**

**1830** parts per billion (ppb) **Sink in storage room near room 123 (use: non-consumption)**

**650** parts per billion (ppb) **Drinking fountain in storage room near room 123 (use: consumption)**

### **IMMEDIATE ACTIONS TAKEN**

Results were received on February 12, 2019. While the drinking fountain was not in a location accessible to students and most staff, a flushed sample was taken and the fountain was removed from service within 24 hours. Both sinks have had signage posted indicating that they are to be used only for non-consumption purposes (e.g., hand washing).

### **NEXT STEPS**

The drinking fountain will remain out of service, and not be returned to operation until remedial actions have taken place and follow up sampling shows results with levels below the action level. The sinks will continue to be used only for non-consumption purposes.

### **ACTION LEVEL (AL)**

The AL is 20 ppb for lead in drinking water in school buildings. The AL is the concentration of lead which, if exceeded, triggers required remediation.

### **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, and cosmetics, exposure in the work place and exposure from certain hobbies, brass faucets, fittings, and valves. 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 **Perry Willis, Executive Director for Support Services** at **410-996-5400**. 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](http://www.epa.gov/lead). 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.



Cecil County Public Schools  
201 Booth St.

Tuesday, February 19, 2019

Elkton, MD 21921

Attention: Andrew Curran

**Certificate of Analysis**  
**AMENDED**

Report for Lab No: 40701.

Samples received by Martel from: Chesapeake City Elementary

Project Identification: Water Analysis HB 270, sampled by Cecil County personnel.

November 21, 2018. Reissued to correct sampling date.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
40701 000001	07-IM-01: CW room by kitchen storage	11/21/2018 08:14
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8	2 02/07/2019 08:53 BJ
40701 000002	07-KS-02: Kitchen (back right sink)	11/21/2018 08:15
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	30.3 ug/l* EPA .200.8	2 02/07/2019 09:05 BJ
40701 000003	07-KS-03: Kitchen (back left sink)	11/21/2018 08:16
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8	2 02/07/2019 09:08 BJ
40701 000004	07-KS-04: Kitchen (front left)	11/21/2018 08:16
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	2.82 ug/l EPA .200.8	2 02/07/2019 09:10 BJ
40701 000005	07-OT-05: Room 1444	11/21/2018 08:27
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	2.25 ug/l EPA .200.8	2 02/07/2019 09:13 BJ
40701 000006	07-CR-06: Room 146	11/21/2018 08:27
Compound	Test Value Test Unit Method	Detection Limit Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8	2 02/07/2019 09:15 BJ



MARTEL NO. 40701 000007 CLIENT SAMPLE IDENTIFICATION 07-BS-07: Girls bathroom near 140 (front) Sample Date/Time 11/21/2018 08:33

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:18 BJ

MARTEL NO. 40701 000008 CLIENT SAMPLE IDENTIFICATION 07-BS-08: Girls bathroom near 140 (middle) Sample Date/Time 11/21/2018 08:33

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:20 BJ

MARTEL NO. 40701 000009 CLIENT SAMPLE IDENTIFICATION 07-BS-09: Girls bathroom near 140 (back) Sample Date/Time 11/21/2018 08:33

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:23 BJ

MARTEL NO. 40701 000010 CLIENT SAMPLE IDENTIFICATION 07-DF-10: In hallway near 136 Sample Date/Time 11/21/2018 08:37

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:25 BJ

MARTEL NO. 40701 000011 CLIENT SAMPLE IDENTIFICATION 07-BS-11: Bathroom near 136 Sample Date/Time 11/21/2018 08:39

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:35 BJ

MARTEL NO. 40701 000012 CLIENT SAMPLE IDENTIFICATION 07-OT-12: Wrk Rm near 136 Sample Date/Time 11/21/2018 08:39

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:41 BJ

MARTEL NO. 40701 000013 CLIENT SAMPLE IDENTIFICATION 07-DF-13: In hallway across from stage Sample Date/Time 11/21/2018 08:40

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:43 BJ

MARTEL NO. 40701 000014 CLIENT SAMPLE IDENTIFICATION 07-BS-14: Boys bathroom across from stage (back) Sample Date/Time 11/21/2018 08:42

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:46 BJ



MARTEL NO. 40701 000015 CLIENT SAMPLE IDENTIFICATION 07-BS-15: Boys bathroom across from stage (front) Sample Date/Time 11/21/2018 08:42

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:48 BJ

MARTEL NO. 40701 000016 CLIENT SAMPLE IDENTIFICATION 07-BS-16: 107A bathroom sink Sample Date/Time 11/21/2018 08:44

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:51 BJ

MARTEL NO. 40701 000017 CLIENT SAMPLE IDENTIFICATION 07-CR-17: 107A classroom sink (right) Sample Date/Time 11/21/2018 08:44

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	3.29	ug/l	EPA .200.8	2	02/07/2019 09:53 BJ

MARTEL NO. 40701 000018 CLIENT SAMPLE IDENTIFICATION 07-BS-18: Staff bathroom by 123 (right) Sample Date/Time 11/21/2018 08:52

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:56 BJ

MARTEL NO. 40701 000019 CLIENT SAMPLE IDENTIFICATION 07-BS-19: Staff bathroom by 123 (left) Sample Date/Time 11/21/2018 08:53

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 09:58 BJ

MARTEL NO. 40701 000020 CLIENT SAMPLE IDENTIFICATION 07-CS-20: Storage rm by 123 Sample Date/Time 11/21/2018 08:58

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	1830	ug/l*	EPA .200.8	2	02/12/2019 14:51 BJ

MARTEL NO. 40701 000021 CLIENT SAMPLE IDENTIFICATION 07-CS-21: Classroom sink in K Pod (front) Sample Date/Time 11/21/2018 09:09

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:06 BJ

MARTEL NO. 40701 000022 CLIENT SAMPLE IDENTIFICATION 07-CS-22: Classroom sink in K Pod (111A) Sample Date/Time 11/21/2018 09:10

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:13 BJ



MARTEL NO. 40701 000023 CLIENT SAMPLE IDENTIFICATION 07-DF-23: Drinking fountain in K Pod Sample Date/Time 11/21/2018 09:11

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:16 BJ

MARTEL NO. 40701 000024 CLIENT SAMPLE IDENTIFICATION 07-BS-24: K Pod girls bathroom (back) Sample Date/Time 11/21/2018 09:13

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:18 BJ

MARTEL NO. 40701 000025 CLIENT SAMPLE IDENTIFICATION 07-BS-25: K Pod girls bathroom (front) Sample Date/Time 11/21/2018 09:13

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.06	ug/l	EPA .200.8	2	02/07/2019 10:21 BJ

MARTEL NO. 40701 000026 CLIENT SAMPLE IDENTIFICATION 07-BS-26: K Pod boys bathroom (front) Sample Date/Time 11/21/2018 09:15

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:23 BJ

MARTEL NO. 40701 000027 CLIENT SAMPLE IDENTIFICATION 07-BS-27: K Pod boys bathroom (back) Sample Date/Time 11/21/2018 09:15

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:26 BJ

MARTEL NO. 40701 000028 CLIENT SAMPLE IDENTIFICATION 07-CR-28: Pre-K 114A (left) Sample Date/Time 11/21/2018 09:23

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:28 BJ

MARTEL NO. 40701 000029 CLIENT SAMPLE IDENTIFICATION 07-CR-29: Pre-K 114A (right) Sample Date/Time 11/21/2018 09:23

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:31 BJ

MARTEL NO. 40701 000030 CLIENT SAMPLE IDENTIFICATION 07-CS-30: Classroom sink in Pod 115 Sample Date/Time 11/21/2018 09:26

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	4.99	ug/l	EPA .200.8	2	02/07/2019 10:33 BJ



MARTEL NO. 40701      000031      CLIENT SAMPLE IDENTIFICATION 07-DF-31: Drinking fountain in Pod 115      Sample Date/Time 11/21/2018 09:26

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:43 BJ

MARTEL NO. 40701      000032      CLIENT SAMPLE IDENTIFICATION 07-BS-32: 115 girls bathroom (front)      Sample Date/Time 11/21/2018 09:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 10:48 BJ

MARTEL NO. 40701      000033      CLIENT SAMPLE IDENTIFICATION 07-BS-33: 115 girls bathroom (back)      Sample Date/Time 11/21/2018 09:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	10.1	ug/l	EPA .200.8	2	02/07/2019 10:50 BJ

MARTEL NO. 40701      000034      CLIENT SAMPLE IDENTIFICATION 07-BS-34: 115 boys bathroom      Sample Date/Time 11/21/2018 09:31

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.32	ug/l	EPA .200.8	2	02/07/2019 10:53 BJ

MARTEL NO. 40701      000044      CLIENT SAMPLE IDENTIFICATION 07-KS-35: Kitchen sink (back middle)      Sample Date/Time 11/21/2018 08:23

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	6.24	ug/l	EPA .200.8	2	02/07/2019 10:55 BJ

MARTEL NO. 40701      000045      CLIENT SAMPLE IDENTIFICATION 07-CR-36: 107A classroom sink (middle)      Sample Date/Time 11/21/2018 08:49

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	6.44	ug/l	EPA .200.8	2	02/07/2019 10:58 BJ

MARTEL NO. 40701      000046      CLIENT SAMPLE IDENTIFICATION 07-CR-37: 107A classroom sink (left)      Sample Date/Time 11/21/2018 08:50

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:00 BJ

MARTEL NO. 40701      000047      CLIENT SAMPLE IDENTIFICATION 07-CF-38: Storage room by 123 combo fountain      Sample Date/Time 11/21/2018 09:02

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	650	ug/l*	EPA .200.8	2	02/12/2019 14:53 BJ



MARTEL NO. 40701      000048      CLIENT SAMPLE IDENTIFICATION 07-CF-39: K Pod combo fountain      Sample Date/Time 11/21/2018 09:09

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:03 BJ

MARTEL NO. 40701      000049      CLIENT SAMPLE IDENTIFICATION 07-CF-40: K Pod 111A combo fountain      Sample Date/Time 11/21/2018 09:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:05 BJ

MARTEL NO. 40701      000050      CLIENT SAMPLE IDENTIFICATION 07-CF-41: Pod 115 combo fountain      Sample Date/Time 11/21/2018 09:28

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:13 BJ

MARTEL NO. 40701      000201      CLIENT SAMPLE IDENTIFICATION 07-CR-201: 205      Sample Date/Time 11/21/2018 09:42

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:20 BJ

MARTEL NO. 40701      000202      CLIENT SAMPLE IDENTIFICATION 07-BS-202: Boys bathroom (left)      Sample Date/Time 11/21/2018 09:43

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:23 BJ

MARTEL NO. 40701      000203      CLIENT SAMPLE IDENTIFICATION 07-BS-203: Boys bathroom (right)      Sample Date/Time 11/21/2018 09:43

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:25 BJ

MARTEL NO. 40701      000204      CLIENT SAMPLE IDENTIFICATION 07-DF-204: In hallway near boys bathroom      Sample Date/Time 11/21/2018 09:44

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:28 BJ

MARTEL NO. 40701      000205      CLIENT SAMPLE IDENTIFICATION 07-DF-205: In hallway near girls bathroom      Sample Date/Time 11/21/2018 09:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:31 BJ





MARTEL NO. 40701      000206      CLIENT SAMPLE IDENTIFICATION 07-BS-206: Girls bathroom (front)      Sample Date/Time 11/21/2018 09:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:33 BJ

MARTEL NO. 40701      000207      CLIENT SAMPLE IDENTIFICATION 07-BS-207: Girls bathroom (middle)      Sample Date/Time 11/21/2018 09:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:35 BJ

MARTEL NO. 40701      000208      CLIENT SAMPLE IDENTIFICATION 07-BS-208: Girls bathroom (back)      Sample Date/Time 11/21/2018 09:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:38 BJ

MARTEL NO. 40701      000209      CLIENT SAMPLE IDENTIFICATION 07-CS-209: 217      Sample Date/Time 11/21/2018 09:46

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.13	ug/l	EPA .200.8	2	02/07/2019 11:40 BJ

MARTEL NO. 40701      000210      CLIENT SAMPLE IDENTIFICATION 07-CF-210: 217 combo fountain      Sample Date/Time 11/21/2018 09:58

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/07/2019 11:50 BJ

**Notes and references:**

40CFR136=U.S. "Code of Federal Regulations", Title 40, Protection of the Environment, Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act.

\* Results exceed 20.5 ug/l.

All samples tested were in acceptable condition, unless otherwise noted.  
The results presented herein relate only to the samples or items tested.

  
Project Manager