### Lead in Drinking Water – Public and Nonpublic Schools

Updated in response to legislation effective as of June 1, 2021

# IMPORTANT NOTICE: ELEVATED LEAD WATER SAMPLE RESULT(S) Crofton Middle 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 October 12, 2023, thirty (30) lead water samples were collected from Crofton Middle School. Of these lead water samples, three (3) had levels of lead exceeding the State's revised action level of 5 parts per billion (ppb) (formerly 20 ppb; 5 ppb effective June 1, 2021) for lead in drinking water in school buildings. The elevated lead results from the sample(s) collected at Crofton Middle School were as follows:

14.6 (ppb) Sample #72 Home Economics 406 FAC Sink 1

24.3 (ppb) Sample #75 Home Economics 406 FAC Sink 4

22.9 (ppb) Sample #76 Home Economics 406 FAC Sink 5

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

Effective June 1, 2021, the State's AL for lead in drinking water samples collected from outlets in school buildings has been lowered to 5 ppb. The AL is the concentration of lead which, if exceeded, triggers required remediation of drinking water outlets.

#### 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 sources 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 workplace 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.

#### IMMEDIATE ACTIONS TAKEN

All consumable outlets exceeding the Action Level were turned off or a "Hand Washing Only", "Do Not Drink" or "Dish Washing Only" sticker was applied.

#### **NEXT STEPS**

Sample #72 Home Economics 406 FAC Sink 1 a "Do Not Drink" sticker will be applied. Sample #75 Home Economics 406 FAC Sink 4 a "Do Not Drink" sticker will be applied. Sample #76 Home Economics 406 FAC Sink 5 a "Do Not Drink" sticker will be applied.

#### 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

For additional information, please contact the Environmental, Health and Safety Office at 443-770-5950. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at <a href="www.epa.gov/lead">www.epa.gov/lead</a>. 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.



### **AACPS - Operations Division**

9034 Ft. Smallwood Road

Friday, February 16, 2024

Certificate of Analysis

Pasadena, MD 21122

Attention:

Chris Williams; Brian Wells

#### **Project Information:**

Report for Lab No: 70017.

School: Crofton MS

Sampling by regulation to Maryland House Bill 270 - Lead in Drinking Water

P.O. Number: PO 21B21062901660

Sampling by Martel personnel on October 12, 2023.

#### References and Important Notes:

SM="Standard Methods for the Examination of Water and Wastewater", American Public Health Association, American Water Works Association, and Water Environment Federation. Year in method code is approved date. 40CFR141=U.S. "Code of Federal Regulations", Title 40, Protection of the Environment, Part 141, National Primary Drinking Water Regulations.

results exceeded 5.5 ug/l.

#### Notices:

Chain of Custody Form(s) are attached and are an integral part of this report. This report will be retained for at least five years and will be disposed of without notice. Measurement uncertainty for each listed test is available upon request. The results presented herein relate only to the samples or items tested. All samples tested were in acceptable condition, unless otherwise noted.

DL2020

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MARTEL NO.	CLIENT SA	AMPLE IDENT	TIFICATION		Sample Date/Time
70017 1	Nurses Office Health R	oom (NO-		10/12/2023 06:46	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/09/2024 19:24 Ek
MARTEL NO. 70017 2	CLIENT SA Nurses Office Health R	AMPLE IDENT		-C]	Sample Date/Time 10/12/2023 06:47
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA 200.8	2	02/09/2024 19:27 Ek
MARTEL NO. 70017 4	CLIENT SA Office Office Work Roo	AMPLE IDENT m [OTC]		· · · · · · · · · · · · · · · · · · ·	Sample Date/Time 10/12/2023 06:44
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	ead <2		EPA .200.8	2	02/09/2024 19:29 EK
MARTEL NO. 70017 9	CLIENT SA Hallway A Hall-Fountai	AMPLE IDENT			Sample Date/Time 10/12/2023 06:51
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/09/2024 19:32 EH
MARTEL NO. 70017 9A	CLIENT SA Hallway A Hall-Fountain	Sample Date/Time 10/12/2023 06:51			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	02/09/2024 19:39 EH
MARTEL NO. 70017 17	CLIENT SA Hallway Hall Fountain (	MPLE IDENT			Sample Date/Time 10/12/2023 06:53
Compound	Test Value	Test Unit	Method	<b>Detection Limit</b>	Analysis Date/Time/Initial
_ead	<2	ug/l	EPA .200.8	2	02/09/2024 19:47 EM
MARTEL NO. 70017 22	CLIENT SA Hallway Hall Fountain (	MPLE IDENT			Sample Date/Time 10/12/2023 06:54
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
_ead	<2	ug/l	EPA .200.8	2	02/09/2024 19:49 EK
MARTEL NO. 70017 23	CLIENT SA Hallway Hall Fountain (	MPLE IDENT		 C]	Sample Date/Time 10/12/2023 06:57
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<u> </u>	ug/l	EPA .200.8		02/09/2024 19:52 EK



MARTEL NO 70017	). 24	CLIENT S Hallway Hall Fountain	AMPLE IDEN (next to B0		C]	Sample Date/Time 10/12/2023 06:57
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA .200.8		02/09/2024 19:54 EK
MARTEL NO	28	CLIENT S Hallway Hall Fountain	AMPLE IDEN (next to B0		_eft (DF-	Sample Date/Time 10/12/2023 06:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		n/a		EPA .200.8	2	11
MARTEL NO	). 29	CLIENT S Hallway Hall Fountain	AMPLE IDEN		Center [D	Sample Date/Time 10/12/2023 06:00
Compound —		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		n/a 		EPA .200.8	2	11
MARTEL NO	30	CLIENT S Hallway Hall Fountain	AMPLE IDEN		Right [DF	Sample Date/Time 10/12/2023 06:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		n/a		EPA .200.8	2	
MARTEL NO	35	CLIENT S Hallway Hall Fountain	AMPLE IDEN (next to B1;			Sample Date/Time 10/12/2023 07:02
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 19:56 EK
MARTEL NC 70017	). 36	CLIENT S Hallway Hall Fountain	AMPLE IDENT		C]	Sample Date/Time 10/12/2023 07:02
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200,8	2	02/09/2024 19:59 EK
MARTEL NO	38	CLIENT S Hallway Hall Fountain	AMPLE IDENT		C]	Sample Date/Time 10/12/2023 07:03
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 20:09 EK
MARTEL NO	). 39	CLIENT S. Hallway Hall Fountain	AMPLE IDENT			Sample Date/Time 10/12/2023 07:04
Compound —		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA 200.8	2	02/09/2024 20:14 EK



MARTEL NC 70017	). 48	CLIENT S Hallway Hall Fountain	AMPLE IDEN (next to 31)			Sample Date/Time 10/12/2023 07:05
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA ,200,8	2	02/09/2024 20:16 EK
MARTEL NO 70017	). 53	CLIENT S Hallway Hall Fountain	AMPLE IDEN (next to 304		e) [DFC]	Sample Date/Time 10/12/2023 07:26
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<u></u>	ug/l	EPA .200.8	2	02/09/2024 20:18 EK
MARTEL NC 70017	). 55	CLIENT S. Office 306 Office [OT	AMPLE IDEN	TIFICATION		Sample Date/Time 10/12/2023 06 49
Compound	ound Test Value Test Unit Method Detection Limit		Detection Limit	Analysis Date/Time/Initial		
Lead		2.75	ug/l	EPA .200.8	2	02/09/2024 20:21 EK
MARTEL NO. 70017 56		CLIENT S. Lounge Faculty Loung	AMPLE IDEN e [TLC]	TIFICATION		Sample Date/Time 10/12/2023 07:25
Compound		Test Value Test Unit Method Detection Lim		Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 20:23 EK
MARTEL NO			Room)	Sample Date/Time 10/12/2023 07:00		
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead 		n/a		EPA .200.8	2	11
MARTEL NO 70017	71	CLIENT S. Hallway Hall Fountain	AMPLE IDEN		[DFC]	Sample Date/Time 10/12/2023 07:10
Compound		Test Value	Test Unit	Method	<b>Detection Limit</b>	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 20:26 EK
MARTEL NO	). 72	CLIENT SA Home Economics 406	AMPLE IDEN FAC Sink 1		e, see map)	Sample Date/Time 10/12/2023 07:12
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		14.6	ug/l*	EPA .200.8	2	02/09/2024 20:28 EK
MARTEL NO	). 73	CLIENT SA Home Economics 406	AMPLE IDEN FAC Sink 2		e, see map)	Sample Date/Time 10/12/2023 07:12
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		3.03	ug/l	EPA .200.8	2	02/09/2024 20:31 EK



MARTEL NO 70017	). 74	CLIENT SA Home Economics 406 I	MPLE IDEN FAC Sink (		, see map)	Sample Date/Time 10/12/2023 07:15
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		2.92	ug/l	EPA .200.8	2	02/09/2024 20:38 EK
MARTEL NO	). 75	CLIENT SA Home Economics 406 I	MPLE IDEN FAC Sink 4		, see map)	Sample Date/Time 10/12/2023 07:15
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		24.3	ug/l*	EPA .200.8	2	02/09/2024 20:46 EK
MARTEL NO 70017	). 76	CLIENT SA Home Economics 406 I	MPLE IDEN FAC Sink (		, see map)	Sample Date/Time 10/12/2023 07:14
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		22.9	ug/l*	EPA .200.8	2	02/09/2024 20:48 EK
MARTEL NO 70017	). 77	CLIENT SA Home Economics 406 I	MPLE IDEN		, see map)	Sample Date/Time 10/12/2023 07:13
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		2.92	ug/l	EPA  200.8	2	02/09/2024 20:51 EK
MARTEL NO	). 83	CLIENT SA Cafeteria Fountain Bott	MPLE IDEN			Sample Date/Time 10/12/2023 07:23
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8		02/09/2024 20:53 EK
MARTEL NO	83A	CLIENT SA Cafeteria Fountain Top	MPLE IDEN	TIFICATION		Sample Date/Time 10/12/2023 07:23
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 20:55 EK
MARTEL NO 70017	88	CLIENT SA Kitchen Left Tri Sink-L	MPLE IDEN	TIFICATION		Sample Date/Time 10/12/2023 07:18
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		2.19	ug/l	EPA .200,8	2	02/09/2024 20:58 EK
MARTEL NO 70017	89	CLIENT SA Kitchen Left Tri Sink-R	MPLE IDEN	TIFICATION		Sample Date/Time 10/12/2023 07:18
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200,8	2	02/09/2024 21:00 EK



MARTEL NO 70017	90	CLIENT S/ Kitchen Right Tri Sink-	AMPLE IDENT L [KSC]	Sample Date/Time 10/12/2023 07:19		
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA .200.8	2	02/09/2024 21:03 EK
MARTEL NO 70017	91	CLIENT S	AMPLE IDENT	<b>FIFICATION</b>		Sample Date/Time 10/12/2023 07:19
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<del>&lt;</del> 2	ug/l	EPA .200.8	2	02/09/2024 21:05 EK
MARTEL NO 70017	88F	CLIENT S/ Kitchen Left Tri Sink-L	AMPLE IDEN	TIFICATION		Sample Date/Time
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA .200.8	2	02/09/2024 21:15 EK
MARTEL NO 70017	89F	CLIENT SA Kitchen Left Tri Sink-R	AMPLE IDEN	TIFICATION		Sample Date/Time 10/12/2023 07:21
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 21:20 Ek
MARTEL NO 70017	90F	CLIENT SA Kitchen Right Tri Sink-	AMPLE IDEN L [KSC]	TIFICATION		Sample Date/Time 10/12/2023 07:22
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA .200.8	2	02/09/2024 21:22 EK
MARTEL NO 70017	91F	CLIENT S. Kitchen Right Tri Sink-	AMPLE IDEN' R [KSC]	TIFICATION		Sample Date/Time 10/12/2023 07:21
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	02/09/2024 21:25 EK
MARTEL NO 70017	12A	CLIENT S. Health Room Bathroon	AMPLE IDEN n [NOC]	TIFICATION		Sample Date/Time 10/12/2023 06:47
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead			ug/l	EPA .200.8		02/13/2024 20:49 EK

02/16/2024

MARTEL Chain of Custody Record

Martel Laboratoies JDS Inc., 1025 Cromwell Bridge Rd., Baltimore, MD 21286, (410) 825-7790, FAX (410) 821-1054, email. martel@martellabs.com

#### Anne Arundel County Public Schools Drinking Water Lead Testing

Bottle Type: 250 ml plastic, preserved with HNO3 Analysis: Lead (EPA 200	0.8)
Start Date/Time: 18/12/23 640 End Date/Time:	10/12/23 7:26
Sampler/Relinguished By: Anthony Wichers Received at Martel by	Date/Time:
Crofton MS	

### 2301 Davidsonville Rd, Gambrills, MD 21054

#### ALL OUTLET WERE FLUSHED THE NIGHT BEFORE SAMPLING BETWEEN THE HOURS OF 5 PM AND 9PM

Floor

Martel NO:

								70017	
Martel II	Sample #	Room if	fixture Type  (Sink, Bubbler, Water Fountain, Gooseneck, Ice  Machine, Hase Bibb, etc.)	Outlet Key Codes	Fixture Types Key	Consumption Cor NC?	. 16	Time/notes	
1	1	Nurses Office R		NO	Faucet, Cold	c	1	6:46	
2	2	Nurses Office	On 30 Realth Room Bathroom (BR)	BS	Faucet, Cold	С	1	6:47	
3	4	Office	Office Work Room	от	Faucet, Cold	С	1	6:44	
4	9	Hallway	A Hall-Fountain Bottom	DF	Drinking Water Fountain-Cooler/Chiller Style	С	1	6:51	
5	9A	Hallway	A Hall-Fountain Top	8F	Bottle Refill Dispenser/Water Refill Station	С	1	6:51	
6	17	Hallway	Hall Fountain (next to 106)	DF	Drinking Water Fountain- Cooler/Chiller Style	с	1	6153	
7	22	Hallway	Hall Fountain (next to 111)	DF	Drinking Water Fountain-Cooler/Chiller Style	С	1	6:54	
8	23	Hallway	Half Fountain (next to B011) - Left	DF	Drinking Water Fountain- Cooler/Chiller Style	с	1	6:57	
9	24	Hallway	Hall Fountain (next to B011) - Right	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	657	
10	28	Hallway	Hall Fountain (next to B007 custodian) - Left	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	Not enough	wate
11	29	Hallway	Hall Fountain (next to 8007 custodian) - Center	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	Not enough	wole
12	30	Hallway	Hall Fountain (next to 8007 custodian) - Right	DF	Drinking Water Fountain-Cooler/Chiller Style	С	1	Not enoug	h water
13	35	Hallway	Hall Fountain (next to B123)	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	7:02	20
14	36	Hallway	Hall Fountain (next to 8123) - Lent	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	7:02	
15	38	Hallway	Hall Fountain (next to B12) - Right	DF	Drinking Water Fountain-Cooler/Chiller Style	с	1	7:03	
16	39	Hallway	Hall Fountain (next to B132)	DF	Drinking Water Fountain-Cooler/Chiller Style	С	1	7:04	
17	48	Hallway	Hall Fountain (next to 311)	ÐF	Drinking Water Fountain- Cooler/Chiller Style	С	1	7:05	
18	53	Hallway	Hall Fountain (next to 304 Faculty Lounge)	DF	Drinking Water Fountain- Cooler/Chiller Style	С	1	7:26	
19	55	Office	306 Office	ОТ	Faucet, Cold	с	1	6:49	
20	56	Lounge	Faculty Lounge	TL	Faucet, Cold	С	1	1125	
21	63	Gymnasium	Gym Fountain (outside Girls Locker Room)	DF	Drinking Water Fountain-Cooler/Chiller Style	С	1	Not worl	king
22	71	Hallway	Hall Fountain (next to custodial closet 4)	DF	Drinking Water Fountain- Cooler/Chiller Style	с	1	7:10	-
23	72	Home Economics	406 FAC Sink 1 (going clockwise, see map)	HE	Faucet, Cold	С	1	7:12	

#### **Crofton MS**

#### 2301 Davidsonville Rd, Gambrills, MD 21054

24	73	Home Economics	406 FAC Sink 2 (going clockwise, see map)	HE	Faucet, Cold	С	1	7:12
25	74	Home Economics	406 FAC Sink 3 (going clockwise, see map)	HE	Faucet, Cold	С	1	7:15
26	75	Home Economics	406 FAC Sink 4 (going clockwise, see map)	HE	Faucet, Cold	С	1	7:15
27	76	Home Economics	406 FAC Sink 5 (going clockwise, see map)	HE	Faucet, Cold	С	1	7:14
28	77	Home Economics	406 FAC Sink 6 (going clockwise, see map)	HE	Faucet, Cold	С	1	703
29	83	Cafeteria	Fountain Bottom	DF	Orinking Weter Fountain- Cooler/Chiller Style	С	1	7:22
30	83A	Cafeteria	Fountain Top	8F	Bottle Refill Dispenser/Water Refill Station	С	1	7:23
31	88	Kitchen	Left Tri Sink-L	KS	Faucet, Cold	С	1	7:18
32	89	Kitchen	Left Tri Sink-R	KS	Faucet, Cold	С	1	7: 18
33	90	Kitchen	Right Tri Sink-L	KS	Faucet, Cold	с	1	7:19
34	91	Kitchen	Right Tri Sink-R	KS	Faucet, Cold	С	1	4:19
35	88F	Kitchen	Left Tri Sink-L	KS	Faucet, Cold	С	1	FLUSH 7:21
36	89F	Kitchen	Left Tri Sink-R	KS	Faucet, Cold	С	1	FLUSH 7:21
37	90F	Kitchen	Right Tri Sink-L	KS	Faucet, Cold	с	1	FLUSH7:22
38	91F	Kitchen	Right Tri Sink-R	KS	Faucet, Cold	С	1	FLUSH 7: 22
34	dA	Health Rowen Beth	oon Nurses Office	35	Facecet, Colo			6547