

# Lead in Drinking Water – Public and Nonpublic Schools

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

## **IMPORTANT NOTICE: ELEVATED LEAD WATER RETEST SAMPLE RESULT(S)**

### **Magothy River Middle School**

#### **ELEVATED LEAD WATER RETEST 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 June 7, 2022, five (5) lead water samples were collected from Magothy River Middle School. Of these lead water samples, one (1) 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 South River High School were as follows:

9.77 (ppb) Sample #100 Home Economics EEC 2R2

#### **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 #100 Home Economics EEC 2R2 will be replaced and retested.

#### **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 [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.



**AACPS - Operations Division**  
9034 Ft. Smallwood Road

Pasadena, MD 21122  
**Attention: Chris Williams; Brian Wells**

Wednesday, June 29, 2022  
**Certificate of Analysis**  
**FINAL**

**Project Information:**

Report for Lab No: 60285.

School: Magothy River MS  
Sampling by regulation to Maryland House Bill 270 - Lead in Drinking Water  
P.O. Number: PO 21B21062901660  
Sampling by Martel personnel on June 7, 2022

**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.

  
Project Manager



|                     |    |   |                                      |
|---------------------|----|---|--------------------------------------|
| MARTEL NO.<br>60285 | 18 | CLIENT SAMPLE IDENTIFICATION<br>Kitchen Dual Sink (Severn Side) [KS--C] | Sample Date/Time<br>06/07/2022 05:04 |
|---------------------|----|---|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | <2         | ug/l      | EPA .200.8 | 2               | 06/28/2022 14:54 BJ        |

|                     |    |  |                                      |
|---------------------|----|--|--------------------------------------|
| MARTEL NO.<br>60285 | 45 | CLIENT SAMPLE IDENTIFICATION<br>Locker Room Fountain -Left [DF--C] | Sample Date/Time<br>06/07/2022 05:00 |
|---------------------|----|--|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | not        | operating | EPA .200.8 | 2               | / /                        |

|                     |     |   |                                      |
|---------------------|-----|---|--------------------------------------|
| MARTEL NO.<br>60285 | 100 | CLIENT SAMPLE IDENTIFICATION<br>Home Economics FAQ-Home EEC 2R2 (by dryer, see map) | Sample Date/Time<br>06/07/2022 05:06 |
|---------------------|-----|---|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | 9.77       | ug/l*     | EPA .200.8 | 2               | 06/28/2022 14:57 BJ        |

|                     |     |  |                                      |
|---------------------|-----|--|--------------------------------------|
| MARTEL NO.<br>60285 | 101 | CLIENT SAMPLE IDENTIFICATION<br>Home Economics FAQ-Home EEC 2R2 Sink-1 (going) | Sample Date/Time<br>06/07/2022 05:06 |
|---------------------|-----|--|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | <2         | ug/l      | EPA .200.8 | 2               | 06/28/2022 14:59 BJ        |

|                     |     |  |                                      |
|---------------------|-----|--|--------------------------------------|
| MARTEL NO.<br>60285 | 102 | CLIENT SAMPLE IDENTIFICATION<br>Home Economics FAQ-Home EEC 2R2 Sink-2 (going) | Sample Date/Time<br>06/07/2022 05:07 |
|---------------------|-----|--|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | 2.88       | ug/l      | EPA .200.8 | 2               | 06/28/2022 15:02 BJ        |

|                     |     |  |                                      |
|---------------------|-----|--|--------------------------------------|
| MARTEL NO.<br>60285 | 103 | CLIENT SAMPLE IDENTIFICATION<br>Home Economics FAQ-Home EEC 2R2 Sink-3 (going) | Sample Date/Time<br>06/07/2022 05:07 |
|---------------------|-----|--|--------------------------------------|

| Compound | Test Value | Test Unit | Method     | Detection Limit | Analysis Date/Time/Initial |
|----------|------------|-----------|------------|-----------------|----------------------------|
| Lead     | 2.58       | ug/l      | EPA .200.8 | 2               | 06/28/2022 15:04 BJ        |

### MARTEL Chain of Custody Record

Martel Laboratories 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 200.8)

Start Date/Time: 6/7/12 504 End Date/Time: 6/7/12 507

Sampler/Relinquished By: [Signature] Received at Martel by: [Signature] Date/Time: 6/7/12 08W

Magothy River MS

241 Peninsula Farm Rd #1052, Arnold, MD 21012

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

Martel NO:

**60285**

| Martel # | Sample # | Room #         | Fixture Type<br><small>(Sink, Bubbler, Water Fountain, Gooseneck, Ice Machine, Hose Bibb, etc.)</small> | Outlet Key<br>Codes | Fixture<br>Types Key                          | Consumption<br>Cor NC? | Time/notes |
|----------|----------|----------------|---|---------------------|---|------------------------|------------|
| 1        | 18       | Kitchen        | Dual Sink (Severn Side)   | KS                  | Faucet, Cold                                  | C                      | 504        |
| 2        | 45       | Locker Room    | Fountain -Left  | DF                  | Drinking Water Fountain- Cooler/Chiller Style | 0                      | N/O        |
| 3        | 100      | Home Economics | FAQ-Home EEC 2R2 (by dryer, see map)  | HE                  | Faucet, Cold                                  | 0                      | 506        |
| 4        | 101      | Home Economics | FAQ-Home EEC 2R2 Sink-1 (going clockwise, see map)  | HE                  | Faucet, Cold                                  | 0                      | ↓          |
| 5        | 102      | Home Economics | FAQ-Home EEC 2R2 Sink-2 (going clockwise, see map)  | HE                  | Faucet, Cold                                  | 0                      | 507        |
| 6        | 103      | Home Economics | FAQ-Home EEC 2R2 Sink-3 (going clockwise, see map)  | HE                  | Faucet, Cold                                  | C                      | ↓          |