

# 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)** **[Saint Mary's Catholic 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 **12-14-2021**, **21** lead water samples were collected from **Saint Mary's Catholic School**. Of these lead water samples, **1** had levels of lead exceeding the State's revised action level of 5.5 parts per billion (ppb) (*formerly 20 ppb; 5.5 ppb effective June 1, 2021*) for lead in drinking water in school buildings. The elevated lead results from the sample collected at **Saint Mary's Catholic School** were as follows:

- **9.5 parts per billion (ppb) Science Lab Sink, room119, A-006 on site drawing.**

\*Results from all drinking water outlets are attached.

### **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 5.5 ppb. The AL is the concentration of lead which, if exceeded, triggers required remediation of drinking water outlets.

### **IMMEDIATE ACTIONS TAKEN**

We immediately placed a sign at the Science Lab sink stating, "This sink is not for drinking, only for washing hands." On 01-04-2022, we had the water retested on the affected sink. It came back below 0.5 ppb, which is below the State's action level. As an added safety precaution, we will leave the sign posted restricting drinking use at the Science Lab sink.

### **NEXT STEPS**

No further steps are required, as the water lead levels came back within safe standards when retested.

### **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.

**(continued below)**

**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 **Dan Taylor** at **301-739-0390 x114**. 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.



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 330040  
**Client:** Aerosol Monitoring & Analysis, Inc  
**Address:** PO Box 646  
1331 Ashton Road  
Hanover, MD 21076  
**Attention:** Mike Novak

**Job Name:** AOB 2021 Lead Water Testing - St. Mary Catholic School  
**Job Location:** Hagerstown MD  
**Job Number:** 22079  
**P.O. Number:** Not Provided

**Date Submitted:** 12/15/2021  
**Date Analyzed:** 12/22/2021  
**Report Date:** 12/22/2021  
**Date Sampled:** 12/15/2021  
**Person Submitting:** Bryan Smalls

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Sample Collection Information	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
330040-1	220791214-01: 16 First-Draw	12/14/2021 6:02 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 205, Cooler, Main Building, 2nd Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-2	220791214-02: 17 First-Draw	12/14/2021 6:03 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 203, Cooler, Main Building, 2nd Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-3	220791214-03: 12 First-Draw	12/14/2021 6:06 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Bathroom, by Girls' Bathroom , Cooler, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-4	220791214-04: 15 First-Draw	12/14/2021 6:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Bathroom, by Boys' Bathroom, Cooler, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-5	220791214-05: 13 First-Draw	12/14/2021 6:09 am	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Left Sink, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	2.2 ug/L	
330040-6	220791214-06: 14 First-Draw	12/14/2021 6:09 am	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Right Sink, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	9.5 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
330040-7	220791214-07: 10 First-Draw	12/14/2021 6:13 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, Faculty Room 107, Sink, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	1.5 ug/L	
330040-8	220791214-08: 11 First-Draw	12/14/2021 6:13 am	Faucet, Cold, Consumption, Bathroom, Faculty Room 108, Sink, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-9	220791214-09: 9 First-Draw	12/14/2021 6:18 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Boys' Bathroom Room 305, Cooler, Main Building, 3rd Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-10	220791214-10: 8 First-Draw	12/14/2021 6:20 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 213, Cooler, Main Building, 2nd Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-11	220791214-11: 7 First-Draw	12/14/2021 6:22 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, Kitchen Hallway 124, Cooler, Main Building, 1st Floor		Furnace AA	Lead	1 ug/L	< 1 ug/L	



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AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
330040-12	220791214-12: 1 First-Draw	12/14/2021 6:25 am	Faucet, Cold, Consumption, Kitchen, , Sink w/ Hose, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-13	220791214-13: 2 First-Draw	12/14/2021 6:25 am	Faucet, Cold, Consumption, Kitchen, , Double Sink Left Faucet, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-14	220791214-14: 3 First-Draw	12/14/2021 6:25 am	Faucet, Cold, Consumption, Kitchen, , Double Sink Right Faucet, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
330040-15	220791214-15: 4 First-Draw	12/14/2021 6:25 am	Faucet, Cold, Consumption, Kitchen, , Handwashing Sink, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-16	220791214-16: 5 First-Draw	12/14/2021 6:25 am	Faucet, Cold, Consumption, Kitchen, , Single Sink, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-17	220791214-17: 6 First-Draw	12/14/2021 6:25 am	Ice Machine, Consumption, Kitchen, , Ice Maker, Main Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-18	220791214-18: 18 First-Draw	12/14/2021 5:51 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, Lobby, Cooler, Parish Building, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
330040-19	220791214-19: 19 First-Draw	12/14/2021 5:52 am	Faucet, Cold, Consumption, Kitchen, , Handwashing Sink, Parish Building, 1st Floor	Furnace AA	Lead	1 ug/L	2.4 ug/L	
330040-20	220791214-20: 20 First-Draw	12/14/2021 5:52 am	Faucet, Cold, Consumption, Kitchen, , Sink, Parish Building, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
330040-21	220791214-21: 21 First-Draw	12/14/2021 5:54 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Sink, Parish Building, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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**Date Sampled:** 12/15/2021  
**Person Submitting:** Bryan Smalls

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Sample Collection Information	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
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**Analysis Methods:** Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

**Analyst(s):** Suphin Chinnapad

**Sample Collector:** Bryan Smalls  
**Certification:**

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

**Technical Director** George Land

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.


# QC Summary for SDG #70024

Overview


Analysis Type: Furnace AA  
Sample Type: Water  
Analysis Date: 12/22/2021

Samples Included

330040-1 330040-10 330040-11 330040-12 330040-13 330040-14 330040-15 330040-16  
330040-17 330040-18 330040-19 330040-2 330040-20 330040-3 330040-4 330040-5  
330040-6 330040-7 330040-8 330040-9

Preparation Blank 

Result: -0.000 ppm

Report Limit Verification Sample 


Percent Recovery: 126.0%

Duplicates


RPD: N/A

Matrix Spike Analysis


Spiked Sample Percent Recovery: N/A  
Spike Duplicate Percent Recovery: N/A  
RPD: N/A

Matrix Blank 


Result: -0.000 ppm

Laboratory Control Sample #1 


Percent Recovery: 95.9%

Laboratory Control Sample #2 


Percent Recovery: 114.06%

Reference Sample 

Percent Recovery: 100.7%

Calibration Curve 

Correlation: 0.999998

Serial Dilution / Bench Spike 

Serial Dilution RPD: N/A  
Bench Spike Percent Recovery: 96.8

Notes


# QC Summary for SDG #70025

Overview


Analysis Type: Furnace AA  
Sample Type: Water  
Analysis Date: 12/20/2021

Samples Included

330040-21

Preparation Blank 

Result: -0.000 ppm

Report Limit Verification Sample 


Percent Recovery: 126.0%

Duplicates


RPD: N/A

Matrix Spike Analysis


Spiked Sample Percent Recovery: N/A  
Spike Duplicate Percent Recovery: N/A  
RPD: N/A

Matrix Blank 


Result: -0.000 ppm

Laboratory Control Sample #1 


Percent Recovery: 97.9%

Laboratory Control Sample #2 


Percent Recovery: 114.06%

Reference Sample 

Percent Recovery: 100.7%

Calibration Curve 

Correlation: 0.999998

Serial Dilution / Bench Spike 

Serial Dilution RPD: N/A  
Bench Spike Percent Recovery: 100.1

Notes



# AMA Analytical Services, Inc.

Focused on Results www.amalab.com  
 AIHA-LAP (#100470) NVLAP (#101143-0) NY ELAP (10920)  
 4475 Forbes Blvd. • Lanham, MD 20706  
 (301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

## CHAIN OF CUSTODY

(Please Refer To This  
Number For Inquires)

# 330040

### AMA Client Information:

1. Client Name: AMA  
 2. Address 1: 1331 Ashbur Rd  
 3. Address 2: Hummer MD 21076  
 4. Billing Email: \_\_\_\_\_  
 5. Phone #: \_\_\_\_\_

### Submittal Information:

1. Job Name: St. Mary School  
 2. Job Location: Pagerstown MD  
 3. Job #: 22079 P.O. #: \_\_\_\_\_  
 4. Contact Person: Mike Novak Cell: \_\_\_\_\_  
 5. Collected by: Bryan Swalls Cell: 301-653-5606

If a TAT is not provided, AMA will assign a default of 5-Day.

Reports and Invoices provided by Email only.

<b>AFTER HOURS (must be pre-scheduled)</b> <input type="checkbox"/> 4 Hours <input type="checkbox"/> Late Night <input type="checkbox"/> Immediate Date Due: _____ <input type="checkbox"/> 24 Hours Time Due: _____ Comments: _____		<b>NORMAL BUSINESS HOURS</b> <input type="checkbox"/> 4 Hours <input type="checkbox"/> 3 Day <input type="checkbox"/> Same Day (6-8 Hours) <input checked="" type="checkbox"/> 5 Day + <u>12-22-21</u> <input type="checkbox"/> Results Required By Noon <input type="checkbox"/> 1 Day Date Due: _____ <input type="checkbox"/> 2 Day		<b>REPORT TO:</b> <input type="checkbox"/> Email 1: _____ <input type="checkbox"/> Email 2: _____ <input type="checkbox"/> Email 3: _____
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**Asbestos Analysis**  
 \*PCM Air - Please Indicate Filter Type: \_\_\_\_\_  
 NIOSH 7400 \_\_\_\_\_ (QTY)  
 \*TEM Air - Please Indicate Filter Type: \_\_\_\_\_  
 AHERA \_\_\_\_\_ (QTY)  
 NIOSH 7402 \_\_\_\_\_ (QTY)  
 Other (specify \_\_\_\_\_) \_\_\_\_\_ (QTY)  
**PLM Bulk**  
 EPA 600 - Visual Estimate \_\_\_\_\_ (QTY)  Pos Stop  
 EPA Point Count \_\_\_\_\_ (QTY)  
 NY State Friable 198.1 \_\_\_\_\_ (QTY)  
 Grav. Reduction ELAP 198.6 \_\_\_\_\_ (QTY)  
 Other (specify \_\_\_\_\_) \_\_\_\_\_ (QTY)  
**MISC**  
 Asbestos Soil PLM \_\_\_\_ (Qual) PLM \_\_\_\_ (Quan) PLM/TEM \_\_\_\_ (Qual) PLM/TEM \_\_\_\_ (Quan)

**TEM Bulk**  
 ELAP 198.4/Chatfield \_\_\_\_\_ (QTY)  
 NY State PLM/TEM \_\_\_\_\_ (QTY)  
 Residual Ash \_\_\_\_\_ (QTY)  
 Vermiculite \_\_\_\_\_  
**TEM Dust\***  
 Qual. (pres/abs) Vacuum/Dust \_\_\_\_\_ (QTY)  
 Quan. (s/area) Vacuum D5755-95 \_\_\_\_\_ (QTY)  
 Quan. (s/area) Dust D6480-99 \_\_\_\_\_ (QTY)  
**TEM Water**  
 Qual. (pres/abs) \_\_\_\_\_ (QTY)  
 ELAP 198.2/EPA 100.2 \_\_\_\_\_ (QTY)  
 EPA 100.1 \_\_\_\_\_ (QTY)  
 All samples received in good condition unless otherwise noted.  
 TEM Water samples \_\_\_\_\_ °C (For Lab Use Only)

**Metals Analysis**  
 Pb Paint Chip  % by Weight \_\_\_\_\_ (QTY)  mg/kg \_\_\_\_\_ (QTY)  
 \*Pb Dust Wipe \_\_\_\_\_ (QTY) (Samples collected using ASTM approved media)  
 \*Pb Air \_\_\_\_\_ (QTY)  
 Pb Soil/Solid \_\_\_\_\_ (QTY)  
 Pb TCLP \_\_\_\_\_ (QTY)  
 Drinking Water  Pb 21 (QTY)  Cu \_\_\_\_\_ (QTY)  
 Waste Water  Pb \_\_\_\_\_ (QTY)  Cu \_\_\_\_\_ (QTY)  
 Pb Furnace (Media \_\_\_\_\_) \_\_\_\_\_ (QTY)  
**Fungal Analysis**  
 \*Spore-Trap \_\_\_\_\_ (QTY) Collection Apparatus for Spore Traps/Air Samples: \_\_\_\_\_  
 \*Surface Swab \_\_\_\_\_ (QTY)  
 \*Surface Tape \_\_\_\_\_ (QTY)  
 Other (Specify \_\_\_\_\_) \_\_\_\_\_ (QTY) Collection Media \_\_\_\_\_  
 Surface Vacuum Dust \_\_\_\_\_ (QTY)

If field data sheets are submitted, there is no need to complete bottom section.  
 \*It is recommended that blank samples be submitted with all air and surface samples

SAMPLE #	SAMPLE INFORMATION SAMPLE LOCATION/ ID	DATE	TIME	VOL (L) (Air Samples)	Wipe Area (Dust Samples)						COMMENTS / SPECIAL INSTRUCTIONS
						TEM	PCM	PLM	LEAD	MOLD	
22079.12.14-01	SEE ATTACHED FIELD DATA SHEETS	12/15/21									
22079.12.14-21											

Relinquished by:	<u>Bryan Swalls</u>	Signature	<u>[Signature]</u>	Date	<u>12/15/21</u>	Time		Delivery Information (For Lab Use Only)
Received by:	<u>Diana Williams</u>	Signature	<u>[Signature]</u>	Date	<u>12-15-21</u>	Time	<u>1:24pm</u>	<input type="checkbox"/> UPS <input checked="" type="checkbox"/> In-Person <input type="checkbox"/> Other <input type="checkbox"/> FedEx <input type="checkbox"/> Drop Box <input type="checkbox"/> USPS <input type="checkbox"/> Courier





# Aerosol Monitoring & Analysis, Inc.

Environmental Consultants

Job Number:	22079	Page	1	of	2
Job Name / Date:	St. Mary School 12/14/21				

## LEAD IN WATER SAMPLE DATA SHEET

Sample #	Sample Location	Draw		Sink		Fountain		Remarks
		1st	2nd	Hot	Cold	Cooler	Bubbler	
220791214-01	2nd floor by 205	X				X		3:06 / 6:02
-02	2nd floor by 203					X		3:08 / 6:03
-03	1st floor by Girls (BR)					X		3:17 / 6:06
-04	" " Boys BR (by room 412)					X		3:18 / 6:07
-05	Science Lab left (119)				X			3:23 / 6:09
-06	" " Right				X			3:24 / 6:09
-07	Faculty Room Right (107)				X			3:30 / 6:13
-08	" " Restroom (108)				X			3:31 / 6:13
-09	3rd floor by Boys BR (305)					X		3:37 / 6:18
-10	2nd floor by Room 203					X		3:43 / 6:20
-11	Kitchen Hallway (124)					X		3:50 / 6:22
-12	Kitchen w/hose				X			3:55 / 6:25
-13	" Double left				X			3:55 / 6:25



# Aerosol Monitoring & Analysis, Inc.

Environmental Consultants

Job Number:	22074	Page	2	of	2
Job Name / Date:	St. Mary School 12/14/21				

## LEAD IN WATER SAMPLE DATA SHEET

Sample #	Sample Location	Draw		Sink		Fountain		Remarks
		1st	2nd	Hot	Cold	Cooler	Bubbler	
220741214-14	Kitchen Double Sinks	X			X			3:55 / 6:25
↓ 15	" Hand				X			3:55 / 6:25
16	" Single				X			3:55 / 6:25
17	" Ice Machine				X			3:55 / 6:25
18	Parish - lobby					X		4:02 / 5:51
19	" - Kitchen Handwash				X			4:04 / 5:52
20	" - Kitchen sink				X			4:04 / 5:52
↓ 21	" - 2nd floor				X			4:10 / 5:54



5-Day TAT: 12/22/2021

School Name: St. Mary Catholic School  
School Address: 218 W Washington Street, Hagerstown, MD 21740  
MSDE Assigned ID#:

Samples Collected by: Bryan Smalls  
Sampler Phone Number: 410-684-3327  
Sampler's Affiliation: Aerosol Monitoring & Analysis

Date & Time Sampling Event Started: 12/14/2021 5:51 AM  
Date & Time Sampling Event Ended: 12/14/2021 6:25 AM

Sample Collection Data

AMA ID	Bottle ID # (Label bottle submitted to lab w/ this ID #)	Fixture Code (Unique ID for each outlet / 2018 Sample ID)	Type (First Draw or Flush)	Sample ID for AMA LIMS	Fixture Type (Select from the Drop-Down Options)	Outlet Use (Consumption or Non-Consumption)	Fixture Area Type (Select from Drop-Down Options)	Fixture Location Description (Be as detailed as possible, ie. between Room 103 & 102)	Fixture Description (Be as detailed as possible, ie. Left Bubble)	Building ID (Only required if school has multiple buildings, ie. Main Bldg, Trailer 1)	Building Floor (Use "1" if Bldg is single story)	Sample Location for AMA LIMS	Date Collected (MM/DD/YYYY)	Time Collected (Military time, ie. 9:00 or 15:00)	Collection Date/Time for AMA LIMS	Date of Last Use (MM/DD/YYYY)	Time of Last Use (Military time, ie. 9:00 or 15:00)	Sample Purpose (Drop-Down Options)
-1	220791214-01	16	First-Draw	220791214-01: 16 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	by Room 205	Cooler	Main Building	2nd Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 205, Cooler, Main Building, 2nd Floor	12/14/2021	06:02	12/14/2021 6:02 AM	12/13/2021	15:06	Standard/Routine
-2	220791214-02	17	First-Draw	220791214-02: 17 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	by Room 203	Cooler	Main Building	2nd Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 203, Cooler, Main Building, 2nd Floor	12/14/2021	06:03	12/14/2021 6:03 AM	12/13/2021	15:11	Standard/Routine
-3	220791214-03	12	First-Draw	220791214-03: 12 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Bathroom	by Girls' Bathroom	Cooler	Main Building	1st Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Bathroom, by Girls' Bathroom, Cooler, Main Building, 1st Floor	12/14/2021	06:06	12/14/2021 6:06 AM	12/13/2021	15:17	Standard/Routine
-4	220791214-04	15	First-Draw	220791214-04: 15 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Bathroom	by Boys' Bathroom	Cooler	Main Building	1st Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Bathroom, by Boys' Bathroom, Cooler, Main Building, 1st Floor	12/14/2021	06:07	12/14/2021 6:07 AM	12/13/2021	15:18	Standard/Routine
-5	220791214-05	13	First-Draw	220791214-05: 13 First-Draw	Faucet, Cold	Consumption	Classroom (Science Lab)	Room 119	Left Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Left Sink, Main Building, 1st Floor	12/14/2021	06:09	12/14/2021 6:09 AM	12/13/2021	15:23	Standard/Routine
-6	220791214-06	14	First-Draw	220791214-06: 14 First-Draw	Faucet, Cold	Consumption	Classroom (Science Lab)	Room 119	Right Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Right Sink, Main Building, 1st Floor	12/14/2021	06:09	12/14/2021 6:09 AM	12/13/2021	15:24	Standard/Routine
-7	220791214-07	10	First-Draw	220791214-07: 10 First-Draw	Faucet, Cold	Consumption	Teachers' Lounge/Break Room	Faculty Room 107	Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, Faculty Room 107, Sink, Main Building, 1st Floor	12/14/2021	06:13	12/14/2021 6:13 AM	12/13/2021	15:30	Standard/Routine
-8	220791214-08	11	First-Draw	220791214-08: 11 First-Draw	Faucet, Cold	Consumption	Bathroom	Faculty Room 108	Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Bathroom, Faculty Room 108, Sink, Main Building, 1st Floor	12/14/2021	06:13	12/14/2021 6:13 AM	12/13/2021	15:31	Standard/Routine
-9	220791214-09	9	First-Draw	220791214-09: 9 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	by Boys' Bathroom Room 305	Cooler	Main Building	3rd Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Boys' Bathroom Room 305, Cooler, Main Building, 3rd Floor	12/14/2021	06:18	12/14/2021 6:18 AM	12/13/2021	15:37	Standard/Routine
-10	220791214-10	8	First-Draw	220791214-10: 8 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	by Room 213	Cooler	Main Building	2nd Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, by Room 213, Cooler, Main Building, 2nd Floor	12/14/2021	06:20	12/14/2021 6:20 AM	12/13/2021	15:43	Standard/Routine
-11	220791214-11	7	First-Draw	220791214-11: 7 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	Kitchen Hallway 124	Cooler	Main Building	1st Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, Kitchen Hallway 124, Cooler, Main Building, 1st Floor	12/14/2021	06:22	12/14/2021 6:22 AM	12/13/2021	15:50	Standard/Routine
-12	220791214-12	1	First-Draw	220791214-12: 1 First-Draw	Faucet, Cold	Consumption	Kitchen		Sink w/ Hose	Main Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Sink w/ Hose, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-13	220791214-13	2	First-Draw	220791214-13: 2 First-Draw	Faucet, Cold	Consumption	Kitchen		Double Sink Left Faucet	Main Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Double Sink Left Faucet, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-14	220791214-14	3	First-Draw	220791214-14: 3 First-Draw	Faucet, Cold	Consumption	Kitchen		Double Sink Right Faucet	Main Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Double Sink Right Faucet, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-15	220791214-15	4	First-Draw	220791214-15: 4 First-Draw	Faucet, Cold	Consumption	Kitchen		Handwashing Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Handwashing Sink, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-16	220791214-16	5	First-Draw	220791214-16: 5 First-Draw	Faucet, Cold	Consumption	Kitchen		Single Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Single Sink, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-17	220791214-17	6	First-Draw	220791214-17: 6 First-Draw	Ice Machine	Consumption	Kitchen		Ice Maker	Main Building	1st Floor	Ice Machine, Consumption, Kitchen, Ice Maker, Main Building, 1st Floor	12/14/2021	06:25	12/14/2021 6:25 AM	12/13/2021	15:55	Standard/Routine
-18	220791214-18	18	First-Draw	220791214-18: 18 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway	Lobby	Cooler	Parish Building	1st Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, Lobby, Cooler, Parish Building, 1st Floor	12/14/2021	05:51	12/14/2021 5:51 AM	12/13/2021	16:02	Standard/Routine
-19	220791214-19	19	First-Draw	220791214-19: 19 First-Draw	Faucet, Cold	Consumption	Kitchen		Handwashing Sink	Parish Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Handwashing Sink, Parish Building, 1st Floor	12/14/2021	05:52	12/14/2021 5:52 AM	12/13/2021	16:04	Standard/Routine
-20	220791214-20	20	First-Draw	220791214-20: 20 First-Draw	Faucet, Cold	Consumption	Kitchen		Sink	Parish Building	1st Floor	Faucet, Cold, Consumption, Kitchen, Sink, Parish Building, 1st Floor	12/14/2021	05:52	12/14/2021 5:52 AM	12/13/2021	16:04	Standard/Routine
-21	220791214-21	21	First-Draw	220791214-21: 21 First-Draw	Drinking Water Fountain - Cooler/Chiller Style	Consumption	Hallway		Sink	Parish Building	2nd Floor	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, Sink, Parish Building, 2nd Floor	12/14/2021	05:54	12/14/2021 5:54 AM	12/13/2021	16:10	Standard/Routine

(NOTE: Please delete unused rows prior to emailing this E-COC to [info@amalab.com](mailto:info@amalab.com) & [kmaxwell@amalab.com](mailto:kmaxwell@amalab.com))

Relinquished by:	Print Name	Sign Name	Date & Time:	Via:	i.e., In-Person, FedEx, UPS, Courier, etc.
	Bryan Smalls	<i>Bryan Smalls</i>	12/15/2021 1:24 PM		Drop-Off
Received by:	Diana Williams	<i>Diana Williams</i>	12/15/2021 1:24 PM		In Person



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 317792  
**Client:** Aerosol Monitoring & Analysis, Inc  
**Address:** PO Box 646  
1331 Ashton Road  
Hanover, MD 21076  
**Attention:** Mike Novak

**Job Name:** AOB 2021 Lead Water Testing - St. Mary Catholic School  
**Job Location:** 218 W Washington Street, Hagerstown, MD 21740  
**Job Number:** 22079  
**P.O. Number:** Not Provided

**Date Submitted:** 01/04/2022  
**Date Analyzed:** 01/08/2022  
**Report Date:** 01/10/2022  
**Date Sampled:** 01/04/2022  
**Person Submitting:** Bryan Smalls

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Sample Collection Information	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
317792-1	220790104-01: 14 Flush	01/04/2022 7:23 am	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Right Sink, Main Building, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	

**Analysis Methods:** Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4)

**Sample Collector:** Bryan Smalls  
**Certification:**

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

**Analyst(s):** Jean-Paul Littleton

**Technical Director** George Land

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.



# QC Summary for SDG #70204

**Overview**

Analysis Type: ICP  
Sample Type: Water  
Analysis Date: 01/08/2022

**Samples Included**

317792-1

**Preparation Blank** ✓

Result: 0.000 ppm

**Report Limit Verification Sample** ✓

Percent Recovery: 104.0%

**Duplicates** ✓

RPD: 13.3%

**Matrix Spike Analysis** ✓

Spiked Sample Percent Recovery: 92.0%  
Spike Duplicate Percent Recovery: 91.5%  
RPD: 0.5%

**Matrix Blank** ✓

Result: 0.000 ppm

**Laboratory Control Sample #1** ✓

Percent Recovery: 96.8%

**Laboratory Control Sample #2** ✓

Percent Recovery: 94.60%

**Reference Sample** ✓

Percent Recovery: 92.0%

**Calibration Curve** ✓

Correlation: 1.0

**Serial Dilution / Bench Spike**

Serial Dilution RPD: N/A  
Bench Spike Percent Recovery: N/A

**Notes**



CHAIN OF CUSTODY

(Please Refer To This Number For Inquires)

317792

Mailing/Billing Information:

1. Client Name: AMA
2. Address 1: 1331 Ashton Rd
3. Address 2: Hanover MD 21076
4. Address 3:
5. Phone #: Fax #:

Submittal Information:

1. Job Name: St Mary's Hagerstown
2. Job Location: 248 West Washington Street
3. Job #: 22079 P.O. #:
4. Contact Person: Mike Dovich Cell:
5. Collected by: Bryan Smalls Cell: 301-653-5266

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

Form with sections: AFTER HOURS (must be pre-scheduled), NORMAL BUSINESS HOURS, and REPORT TO: (Email, Email 2, Verbal).

Asbestos Analysis

\*PCM Air - Please Indicate Filter Type:
- NIOSH 7400 (QTY)
- Fiberglass (QTY)
TEM Air\* - Please Indicate Filter Type:
- AHERA (QTY)
- NIOSH 7402 (QTY)
- Other (specify) (QTY)

PLM Bulk

- EPA 600 - Visual Estimate (QTY) - Pos Stop
- EPA Point Count (QTY)
- NY State Friable 198.1 (QTY)
- Grav. Reduction ELAP 198.6 (QTY)
- Other (specify) (QTY)

MISC

- Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)
\*It is recommended that blank samples be submitted with all air and surface samples

TEM Bulk

- ELAP 198.4/Chatfield (QTY)
- NY State PLM/TEM (QTY)
- Residual Ash (QTY)
- Vermiculite

TEM Dust\*

- Qual. (pres/abs) Vacuum/Dust (QTY)
- Quan. (s/area) Vacuum D5755-95 (QTY)
- Quan. (s/area) Dust D6480-99 (QTY)

TEM Water

- Qual. (pres/abs) (QTY)
- ELAP 198.2/EPA 100.2 (QTY)
- EPA 100.1 (QTY)

All samples received in good condition unless otherwise noted. (TEM Water samples °C)

If field data sheets are submitted, there is no need to complete bottom section.

Metals Analysis

- Pb Paint Chip (QTY)
- \*Pb Dust Wipe (wipe type) (QTY)
- \*Pb Air (QTY)
- Pb Soil/Solid (QTY)
- Pb TCLP (QTY)
- Drinking Water Pb (QTY) Cu (QTY) As (QTY)
- Waste Water Pb (QTY) Cu (QTY) As (QTY)
- Pb Furnace (Media) (QTY)

Fungal Analysis

Collection Apparatus for Spore Traps/Air Samples:
Collection Media
- \*Spore-Trap (QTY) - Surface Vacuum Dust (QTY)
- \*Surface Swab (QTY)
- \*Surface Tape (QTY)
- Other (Specify) (QTY)

Table with columns: CLIENT ID #, SAMPLE INFORMATION, DATE/TIME, VOL (L)/Wipe Area, ANALYSIS (TEM, PCM, PLM, LEAD, MOLD, AIR), MATRIX (BULK, DUST, WATER AND OTHER, SPORE TRAP, TAPE, SWAB), COMMENTS / SPECIAL INSTRUCTIONS. Includes handwritten entry for client ID 22079104-01 with 'SEE ATTACHED FIELD DATA SHEET' and 'X' marks in LEAD and WATER AND OTHER columns.

Form for Relinquished by (Bryan Smalls), Received by, Signature, Date (1/4/22), Time (10am), and Shipping Information (UPS, FedEx, USPS, etc.).



# Aerosol Monitoring & Analysis, Inc.

Environmental Consultants

Job Number:	22079	Page	1	of	1
Job Name / Date:	St Mary's Hagerstown				

## LEAD IN WATER SAMPLE DATA SHEET

Sample #	Sample Location	Draw		Sink		Fountain		Time Off	Sample Time
		1st	2nd	Hot	Cold	Cooler	Bubbler		
220790104-01	Room 119, Right sink	FLUSH			X				7:23



5-Day TAT: 1/11/2022

School Name: St. Mary Catholic School

School Address: 218 W Washington Street, Hagerstown, MD 21740

Samples Collected by: Bryan Smalls

Sampler Phone Number: 410-684-3327

Date & Time Sampling Event Started: 01/04/2022 7:23 AM

Date & Time Sampling Event Ended: 01/04/2022 7:23 AM

MSDE Assigned ID#:

Sampler's Affiliation: Aerosol Monitoring & Analysis

Sample Collection Data

AMA ID	Bottle ID # (Label bottle submitted to lab w/ this ID #)	Fixture Code (Unique ID for each Outlet/ 2018 Sample ID)	Type (First Draw or Flush)	Sample ID for AMA LIMS	Fixture Type (Select from the Drop-Down Options)	Outlet Use (Consumption or Non-Consumption)	Fixture Area Type (Select from Drop-Down Options)	Fixture Location Description (Be as detailed as possible; ie. between Room 123 & 125)	Fixture Description (Be as detailed as possible; ie. Left, Right, Bubble)	Building ID (Only required if school has multiple buildings; ie. Main Bldg, Trailer 1)	Building Floor (Use "1" if Bldg is single story)	Sample Location for AMA LIMS	Date Collected (MM/DD/YYYY)	Time Collected (military time, ie 08:00 or 16:00)	Collection Date/Time for AMA LIMS	Date of Last Use (MM/DD/YYYY)	Time of Last Use (military time, ie 08:00 or 16:00)	Sample Purpose (Drop-Down Options)
-1	220790104-01	14	Flush	220790104-01: 14 Flush	Faucet, Cold	Consumption	Classroom (Science Lab)	Room 119	Right Sink	Main Building	1st Floor	Faucet, Cold, Consumption, Classroom (Science Lab), Room 119, Right Sink, Main Building, 1st Floor	4/4/2022	07:23	01/04/2022 7:23 AM	1/3/2022	20:00	Required Flush (collected after elevated first-draw result prior to remediation)

(NOTE: Please delete unused rows prior to emailing this E-COC to info@amalab.com & kmaxwell@amalab.com)

Print Name		Sign Name		i.e., In-Person, FedEx, UPS, Courier, etc.			
Relinquished by:	Bryan Smalls	<i>Bryan Smalls</i>	Date & Time:	01/04/2022 10:00 AM	Via:	Drop-Off	
Received by:	Kolby Maxwell	<i>Kolby Maxwell</i>	Date & Time:	01/04/2022 10:00 AM	Via:	In Person	