

CERTIFICATE OF ANALYSIS

Chain of Custody: 651509	Job Name: Applications & Research Laboratory	Date Submitted: 09/26/2023
Client: Howard County Public School System	Job Location: 10920 Clarksville Pike, Ellicott City, MD 21042	Date Analyzed: 09/29/2023
Address: 10910 Route 108 Ellicott City Maryland 21042	Job Number: 13.018	Report Date: 10/02/2023
Attention: Christopher Madden	P.O. Number: Not Provided	Date Sampled: 09/14/2023
		Person Submitting: Christopher Madden

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
651509-1	1: ARL 4 First-Draw	9/14/2023 6:12:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.8 ug/L	

Sample Collector: Christopher Madden
Certification:

Analysis Method: ICP: EPA 200.8 (Rev. 5.4)
Preparation Method: None
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): Paul Littleton


Technical Director _____
George Land

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QC Summary for SDG #77311

Overview

Analysis Type: ICP
Sample Type: Lead Water
Analysis Date: 09/29/2023

Samples Included

651509-1

Preparation Blank

Result: -0.000 ppm

Report Limit Verification Sample

Percent Recovery: 84.2 %

Duplicates

RPD: 6.6 %

Matrix Spike Analysis

Spiked Sample Percent Recovery: 94.0%
Spike Duplicate Percent Recovery: 90.4%
RPD: 4.0%

Matrix Blank

Result: -0.000 ppm

Lab Control Sample #1

Percent Recovery: 108.91 %

Lab Control Sample #2

Percent Recovery: 107.82 %

Reference Sample

Percent Recovery: 107.1%

Calibration Curve

Correlation: 1.0

Serial Dilution / Bench Spike

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

Notes



School Name: Applications & Research Laboratory
Address: 10920 Clarksville Pike, Ellicott City, MD 21042
County: Howard County
MSDE ID #: 13.018

Project Manager: Christopher Madden
PM Cell Phone No.: 410-313-8874
Email Results To: christopher_madden@hcpss.org
Email Invoice To: christopher_madden@hcpss.org

Samples Collected by: Christopher Madden
Sampler's Phone Number: 410-313-6699
Sampler's Affiliation: Howard County Public School System

Turn-Around-Time: **5-Day**
Due Date & Time: **10/3/2023 5:00 PM**
Start Date & Time: 09/13/2023 6:12 AM
Stop Date & Time: 09/13/2023 6:15 AM

Sample Collection Data

AMA ID	Bottle ID # (Label bottle submitted to lab w/ this ID #)	Outlet ID Code (Unique ID for each Outlet)	Draw Type (First Draw or Flush)	Sample ID for AMA LIMS	Outlet Type (Select from the Drop-Down Options)	Outlet Use (Consumption or Non-Consumption)	Outlet Area Type (Select from Drop-Down Options)	Outlet Location Description (Be as detailed as possible: ie, between Room 123 & 125)	Outlet Description (Be as detailed as possible: ie, Left/Right)	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 (M/D/YYYY)	Time Collected (HH:MM)	Collection Date/Time for AMA LIMS	Date of Last Use (M/D/YYYY)	Time of Last Use (HH:MM)	Sample Purpose (Select from Drop-Down Options)
-1	1	ARL 4	First-Draw	1: ARL 4 First-Draw	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated)	Yes (= Consumption)	Hallway		Fountain	Main Bldg	1st Floor	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, Fountain, Main Bldg, 1st Floor	9/14/2023	06:12	9/14/2023 6:12 AM	9/13/2023	20:00	Follow-Up (Post-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:	Christopher Madden	<i>Christopher Madden</i>	Date & Time:	9/13/2023 9:37 AM	Via:	AMA Courier
Received by:	Kolby Maxwell	<i>Kolby Maxwell</i>	Date & Time:	9/26/2023 3:00 PM	Via:	Courier