



CERTIFICATE OF ANALYSIS

Chain of Custody: 642584
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Cedar Lane School
Job Location: 11630 Scaggsville Road, Fulton, MD
20759
Job Number: 13.088
P.O. Number: Not Provided

Date Submitted: 12/22/2022
Date Analyzed: 01/09/2023
Report Date: 01/10/2023
Date Sampled: 12/13/2022
Person Submitting: Jeff Klenk

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
642584-1	CLS 1 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
642584-2	CLS 2 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4 ug/L	4.0 ug/L.
642584-3	CLS 3 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
642584-4	CLS 4 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.69 ug/L	
642584-5	CLS 5 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-6	CLS 6 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.88 ug/L	
642584-7	CLS 7 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-8	CLS 8 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-9	CLS 9 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-10	CLS 10 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
642584-11	CLS 11 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-12	CLS 12 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
642584-13	CLS 13 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
642584-14	CLS 14 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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642584-15	CLS 15 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.9 ug/L	
642584-16	CLS 16 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
642584-17	CLS 17 First-Draw	12/13/2022 6:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-18	CLS 19 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.61 ug/L	
642584-19	CLS 20 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	
642584-20	CLS 21 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-21	CLS 23 First-Draw	12/13/2022 6:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Gymnasium, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
642584-22	CLS 24 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.8 ug/L	
642584-23	CLS 25 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
642584-24	CLS 26 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.55 ug/L	
642584-25	CLS 27 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	



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642584-26	CLS 28 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	5.5 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
642584-27	CLS 29 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.8 ug/L	
642584-28	CLS 30 First-Draw	12/13/2022 6:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-29	CLS 32 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.3 ug/L	
642584-30	CLS 33 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-31	CLS 34 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.66 ug/L	
642584-32	CLS 35 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.96 ug/L	
642584-33	CLS 36 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
642584-34	CLS 37 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.9 ug/L	0.90 ug/L.
642584-35	CLS 39 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
642584-36	CLS 40 First-Draw	12/13/2022 6:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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642584-37	CLS 41 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-38	CLS 42 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-39	CLS 43 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
642584-40	CLS 44 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-41	CLS 45 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.54 ug/L	
642584-42	CLS 46 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
642584-43	CLS 47 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.67 ug/L	
642584-44	CLS 48 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	5.1 ug/L	
642584-45	CLS 49 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
642584-46	CLS 50 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.74 ug/L	
642584-47	CLS 51 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.59 ug/L	
642584-48	CLS 52 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-49	CLS 53 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
642584-50	CLS 54 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.51 ug/L	



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642584-51	CLS 55 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.54 ug/L	
642584-52	CLS 56 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
642584-53	CLS 57 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
642584-54	CLS 58 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
642584-55	CLS 59 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	7.3 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
642584-56	CLS 60 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
642584-57	CLS 61 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
642584-58	CLS 62 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.94 ug/L	
642584-59	CLS 63 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
642584-60	CLS 64 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.82 ug/L	
642584-61	CLS 65 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.6 ug/L	0.60 ug/L.



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642584-62	CLS 66 First-Draw	12/13/2022 6:40 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.56 ug/L	
642584-63	CLS 66BW First-Draw	12/14/2022 6:50 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Cafeteria, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
642584-64	CLS 67 First-Draw	12/13/2022 6:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642584-65	CLS 68 First-Draw	12/13/2022 6:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.74 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: Jeff Klenk (66BW) & Jackson Hotlzman (all others)
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.