



CERTIFICATE OF ANALYSIS

Chain of Custody: 633085
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Forest Ridge Elementary School
Job Location: 9550 Gorman Road, Laurel, MD
20723
Job Number: 13.047
P.O. Number: Not Provided

Date Submitted: 02/18/2022
Date Analyzed: 02/24/2022
Report Date: 02/25/2022
Date Sampled: 02/08/2022 - 02/09/2022
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					
633085-1	FRES-1A First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	
633085-2	FRES-1B Flush	02/09/2022 5:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-3	FRES-2 First-Draw	02/08/2022 5:15 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	
633085-4	FRES-3 First-Draw	02/08/2022 5:15 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	
633085-5	FRES-4F First-Draw	02/08/2022 5:15 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-6	FRES-4S First-Draw	02/09/2022 5:40 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-7	FRES-6F First-Draw	02/08/2022 5:15 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-8	FRES-6S First-Draw	02/09/2022 5:40 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	7.7 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
633085-9	FRES-7F First-Draw	02/08/2022 5:15 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-10	FRES-7S First-Draw	02/09/2022 5:40 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
633085-11	FRES-8F First-Draw	02/08/2022 5:15 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-12	FRES-8S First-Draw	02/09/2022 5:40 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.2 ug/L	
633085-13	FRES-9 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	



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633085-14	FRES-10 First-Draw	02/08/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-15	FRES-12 First-Draw	02/08/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-16	FRES-16 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	4.9 ug/L	
633085-17	FRES-16F First-Draw	02/08/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-18	FRES-17 First-Draw	02/08/2022 5:15 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	
633085-19	FRES-18 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.1 ug/L	
633085-20	FRES-19 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	6.7 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
633085-21	FRES-20 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.3 ug/L	
633085-22	FRES-21 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.1 ug/L	
633085-23	FRES-22 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	4.3 ug/L	
633085-24	FRES-23 First-Draw	02/08/2022 5:15 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	
633085-25	FRES-24 First-Draw	02/08/2022 5:15 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	
633085-26	FRES-27 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3 ug/L	3.0 ug/L.



CERTIFICATE OF ANALYSIS

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633085-27	FRES-28 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.8 ug/L	
633085-28	FRES-30 First-Draw	02/08/2022 5:15 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	
633085-29	FRES-31 First-Draw	02/08/2022 5:15 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	
633085-30	FRES-32 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	
633085-31	FRES-34 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	5.2 ug/L	
633085-32	FRES-35 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	
633085-33	FRES-36 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
633085-34	FRES-37 First-Draw	02/08/2022 5:15 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	
633085-35	FRES-38 First-Draw	02/08/2022 5:15 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	
633085-36	FRES-39 First-Draw	02/08/2022 5:15 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	
633085-37	FRES-40 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.56 ug/L	
633085-38	FRES-41 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
633085-39	FRES-42 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
633085-40	FRES-43 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	



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633085-41	FRES-44 First-Draw	02/08/2022 5:15 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	
633085-42	FRES-46 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
633085-43	FRES-47 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	
633085-44	FRES-48 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.7 ug/L	
633085-45	FRES-49 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.8 ug/L	
633085-46	FRES-50 First-Draw	02/08/2022 5:15 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	
633085-47	FRES-51 First-Draw	02/08/2022 5:15 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	
633085-48	FRES-52 First-Draw	02/08/2022 5:15 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	
633085-49	FRES-54 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.1 ug/L	
633085-50	FRES-55 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	10 ug/L	10.4 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
633085-51	FRES-57 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-52	FRES-61 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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633085-53	FRES-62 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.2 ug/L	
633085-54	FRES-63 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
633085-55	FRES-64F First-Draw	02/08/2022 5:15 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633085-56	FRES-64S First-Draw	02/09/2022 5:40 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.7 ug/L	0.70 ug/L.
633085-57	FRES-58 First-Draw	02/09/2022 5:40 am	Faucet, Cold, Consumption, Classroom, , sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.9 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
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): George Land, Jean-Paul Littleton

Technical Director George Land

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