



CERTIFICATE OF ANALYSIS

Chain of Custody: 645056
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Hollifield Station Elementary School
Job Location: 8701 Stonehouse Drive, Ellicott City,
MD 21043
Job Number: 13.067
P.O. Number: Not Provided

Date Submitted: 03/30/2023
Date Analyzed: 04/14/2023
Report Date: 04/14/2023
Date Sampled: 03/22/2023 & 3/23/2023
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					
645056-1	HSES 1 First-Draw	03/22/2023 6:30 am	Faucet, Cold, Consumption, Kitchen, , Sink, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.4 ug/L	
645056-2	HSES 2 First-Draw	03/22/2023 6:30 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	13 ug/L	13.0 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
645056-3	HSES 3 First-Draw	03/22/2023 6:30 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-4	HSES 4 First-Draw	03/22/2023 6:30 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-5	HSES 5 First-Draw	03/22/2023 6:30 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-6	HSES 5BW First-Draw	03/23/2023 5:50 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Filler, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-7	HSES 6F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.8 ug/L	
645056-8	HSES 7F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-9	HSES 8F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-10	HSES 10F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-11	HSES 11F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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645056-12	HSES 12 First-Draw	03/22/2023 6:30 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-13	HSES 13F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
645056-14	HSES 14 First-Draw	03/22/2023 6:30 am	Faucet, Cold, Consumption, Media Center, , Sink, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-15	HSES 15F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-16	HSES 16F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-17	HSES 18F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
645056-18	HSES 19F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-19	HSES 20F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
645056-20	HSES 21F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-21	HSES 22F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-22	HSES 24F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-23	HSES 25F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-24	HSES 29 First-Draw	03/22/2023 6:30 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-25	HSES 30 First-Draw	03/22/2023 6:30 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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645056-26	HSES 30BW First-Draw	03/23/2023 5:50 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Filler, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-27	HSES 35F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-28	HSES 36F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-29	HSES 38F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-30	HSES 39F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-31	HSES 40F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
645056-32	HSES 41 First-Draw	03/22/2023 6:30 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-33	HSES 41BW First-Draw	03/23/2023 5:50 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Filler, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-34	HSES 42F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-35	HSES 43F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-36	HSES 44F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-37	HSES 46F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-38	HSES 47F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
645056-39	HSES 48 First-Draw	03/22/2023 6:30 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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645056-40	HSES 49F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
645056-41	HSES 50F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
645056-42	HSES 51F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
645056-43	HSES 52F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.63 ug/L	
645056-44	HSES 53F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
645056-45	HSES 54F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-46	HSES 55 First-Draw	03/22/2023 6:30 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
645056-47	HSES 56 First-Draw	03/22/2023 6:30 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-48	HSES 57F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-49	HSES 58F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-50	HSES 59F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-51	HSES 60F First-Draw	03/22/2023 6:30 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-52	HSES 61F First-Draw	03/23/2023 5:50 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Nurse's Office/Health Room, , Fountain, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
645056-53	HSES 61S First-Draw	03/22/2023 6:30 am	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Mainl Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.5 ug/L	



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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): Jean-Paul Littleton

Sample Collector: Jeff Klenk & Aruna Bandaranayake
Certification:

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

Technical Director Jean-Paul Littleton

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