



CERTIFICATE OF ANALYSIS

Chain of Custody: 641264
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Thomas Viaduct Middle School
Job Location: 7000 Banbury Drive, Hanover, MD
21076
Job Number: 13.087
P.O. Number: Not Provided

Date Submitted: 11/02/2022
Date Analyzed: 11/09/2022
Report Date: 11/09/2022
Date Sampled: 10/27/2022 & 10/28/2022 Jk
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					
641264-1	TVMS 1 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-2	TVMS 3F First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-3	TVMS 3S First-Draw	10/28/2022 6:45 am	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-4	TVMS 4 First-Draw	10/27/2022 6:00 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	
641264-5	TVMS 5 First-Draw	10/27/2022 6:00 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	
641264-6	TVMS 8F First-Draw	10/27/2022 6:00 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	
641264-7	TVMS 9 First-Draw	10/27/2022 6:00 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	
641264-8	TVMS 10F First-Draw	10/27/2022 6:00 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	
641264-9	TVMS 11F First-Draw	10/27/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
641264-10	TVMS 12 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-11	TVMS 13 First-Draw	10/27/2022 6:00 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	
641264-12	TVMS 14 First-Draw	10/27/2022 6:00 am	Refrigerator Water Dispenser -- Not required if non-metal water line, Consumption, Classroom (Home Economics), , Water Dispenser, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-13	TVMS 15 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.1 ug/L	
641264-14	TVMS 16 First-Draw	10/27/2022 6:00 am	Refrigerator Water Dispenser -- Not required if non-metal water line, Consumption, Classroom (Home Economics), , Water Dispenser, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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641264-15	TVMS 17 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-16	TVMS 18 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-17	TVMS 19 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-18	TVMS 20 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.9 ug/L	
641264-19	TVMS 21 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.1 ug/L	
641264-20	TVMS 22 First-Draw	10/27/2022 6:00 am	Refrigerator Water Dispenser -- Not required if non-metal water line, Consumption, Classroom (Home Economics), , Water Dispenser, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-21	TVMS 23 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-22	TVMS 25 First-Draw	10/27/2022 6:00 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	
641264-23	TVMS 25BW First-Draw	10/28/2022 6:45 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-24	TVMS 26 First-Draw	10/27/2022 6:00 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	
641264-25	TVMS 27 First-Draw	10/27/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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641264-26	TVMS 28 First-Draw	10/27/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	22 ug/L	22.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
641264-27	TVMS 29 First-Draw	10/27/2022 6:00 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-28	TVMS 30 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-29	TVMS 32 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	41 ug/L	40.6 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
641264-30	TVMS 33 First-Draw	10/27/2022 6:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-31	TVMS 35F First-Draw	10/27/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	
641264-32	TVMS 36F First-Draw	10/27/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
641264-33	TVMS 37F First-Draw	10/27/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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641264-34	TVMS 38 First-Draw	10/27/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	4.9 ug/L	
641264-35	TVMS 42 First-Draw	10/27/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	19 ug/L	18.8 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
641264-36	TVMS 44 First-Draw	10/27/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd 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)

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 (3S & 25BW) & Greg Harrison (all others)

Certification:

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

Technical Director George Land

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