



CERTIFICATE OF ANALYSIS

Chain of Custody: 633581
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Worthington Elementary School
Job Location: 4570 Roundhill Road, Ellicott City, MD
21043
Job Number: 13.010
P.O. Number: Not Provided

Date Submitted: 03/04/2022
Date Analyzed: 03/11/2022
Report Date: 03/14/2022
Date Sampled: 03/01/2022 - 03/02/2022
Person Submitting: Dana Hudson

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					
633581-1	WOES-02 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-2	WOES-03 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-3	WOES-04 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	5.2 ug/L	
633581-4	WOES-05 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-5	WOES-06 First-Draw	03/02/2022 5:23 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
633581-6	WOES-7F	03/01/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-7	WOES-07S First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.67 ug/L	
633581-8	WOES-08F First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-9	WOES-08S First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-10	WOES-09F First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-11	WOES-09S First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-12	WOES-10F First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-13	WOES-10S First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-14	WOES-11 First-Draw	03/02/2022 5:23 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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633581-15	WOES-12 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Office, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-16	WOES-13 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-17	WOES-14 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-18	WOES-15 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-19	WOES-16 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Office, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-20	WOES-17 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-21	WOES-18 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	4.3 ug/L	
633581-22	WOES-19 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
633581-23	WOES-20 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-24	WOES-21 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-25	WOES-22 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.87 ug/L	
633581-26	WOES-23 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
633581-27	WOES-24 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-28	WOES-25 First-Draw	03/02/2022 5:23 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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633581-29	WOES-26 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-30	WOES-27 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.7 ug/L	0.70 ug/L
633581-31	WOES-28 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.95 ug/L	
633581-32	WOES-29 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-33	WOES-30 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-34	WOES-31 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
633581-35	WOES-32 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.9 ug/L	0.90 ug/L
633581-36	WOES-33 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-37	WOES-34 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-38	WOES-35 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.54 ug/L	
633581-39	WOES-36 First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-40	WOES-37 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-41	WOES-38F First-Draw	03/01/2022 5:20 pm	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Nurse's Office/Health Room, See Floor Plan, Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
633581-42	WOES-38S First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Nurse's Office/Health Room, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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633581-43	WOES-39 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Office, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
633581-44	WOES-40 First-Draw	03/02/2022 5:23 pm	Faucet, Cold, Consumption, Nurse's Office/Health Room, See Floor Plan, Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 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): Jean-Paul Littleton

Technical Director Jean-Paul Littleton

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