

CERTIFICATE OF ANALYSIS

Chain of Custody: 654572	Job Name: Manor Woods Elementary School	Date Submitted: 01/18/2024
Client: Howard County Public School System	Job Location: 11575 Frederick Road, Ellicott City, MD 21042	Date Analyzed: 01/23/2024
Address: 10910 Route 108 Ellicott City Maryland 21042	Job Number: 13.052	Report Date: 01/24/2024
Attention: Christopher Madden	P.O. Number: Not Provided	Date Sampled: 01/12/2024 Person Submitting: John Farmer

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
654572-1	1: MWES-1 Flush	01/12/2024 6:17 AM	Faucet, Cold, Yes (= Consumption), Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-2	2: MWES-2 First-Draw	01/12/2024 5:10 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-3	3: MWES-6F First-Draw	01/12/2024 5:42 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.69 ug/L	
654572-4	4: MWES-8F First-Draw	01/12/2024 5:44 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
654572-5	5: MWES-9 First-Draw	01/12/2024 5:45 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
654572-6	6: MWES-11F First-Draw	01/12/2024 5:47 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.81 ug/L	
654572-7	7: MWES-15 First-Draw	01/12/2024 5:51 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
654572-8	8: MWES-20 First-Draw	01/12/2024 5:50 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-9	9: MWES-22F First-Draw	01/12/2024 5:53 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
654572-10	10: MWES-24F First-Draw	01/12/2024 5:54 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
654572-11	11: MWES-27F First-Draw	01/12/2024 5:57 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.69 ug/L	
654572-12	12: MWES-28 First-Draw	01/12/2024 6:01 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	

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654572-13	13: MWES-30F First-Draw	01/12/2024 6:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.59 ug/L	
654572-14	14: MWES-32F First-Draw	01/12/2024 6:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.59 ug/L	
654572-15	15: MWES-34 First-Draw	01/12/2024 6:08 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-16	16: MWES-36F First-Draw	01/12/2024 6:04 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.61 ug/L	
654572-17	17: MWES-38F First-Draw	01/12/2024 6:03 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-18	18: MWES-40F First-Draw	01/12/2024 6:05 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
654572-19	19: MWES-42F First-Draw	01/12/2024 5:55 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-20	20: MWES-44 First-Draw	01/12/2024 5:54 AM	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
654572-21	21: MWES-45 First-Draw	01/12/2024 5:47 AM	Faucet, Cold, Yes (= Consumption), Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
654572-22	22: MWES-46 First-Draw	01/12/2024 5:50 AM	Faucet, Cold, Yes (= Consumption), Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	
654572-23	23: MWES-47 First-Draw	01/12/2024 5:31 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.0 ug/L	
654572-24	24: MWES-49 First-Draw	01/12/2024 5:57 AM	Faucet, Cold, Yes (= Consumption), Media Center, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.3 ug/L	
654572-25	25: MWES-50F First-Draw	01/12/2024 6:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.66 ug/L	

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Attention: Christopher Madden	P.O. Number: Not Provided	Date Sampled: 01/12/2024 Person Submitting: John Farmer

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
Analysis Method: ICP: EPA 200.8 (Rev. 5.4) Preparation Method: None mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided				Sample Collector: M. McAllister Certification:				
Analyst(s): Paul Littleton				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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CERTIFICATE OF ANALYSIS

Chain of Custody: 656121	Job Name: Manor Woods Elementary School	Date Submitted: 03/08/2024
Client: Howard County Public School System	Job Location: 11575 Frederick Road, Ellicott City, MD 21042	Date Analyzed: 03/14/2024
Address: 10910 Route 108 Ellicott City Maryland 21042	Job Number: 13.052	Report Date: 03/15/2024
Attention: Christopher Madden	P.O. Number: Not Provided	Date Sampled: 03/01/2024
		Person Submitting: John D. Farmer, III

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
656121-1	1: MWES-41F First-Draw	03/01/2024 6:39 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubblers, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656121-2	2: MWES-43F First-Draw	03/01/2024 6:41 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubblers, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	

Analysis Method: APHA SM 3113B (GFAA)
Preparation Method: None
mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

Sample Collector: John D. Farmer, III
Certification:

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

Analyst(s): Nida McGarvey



**Technical
Director** _____
George Land

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