

CERTIFICATE OF ANALYSIS

Chain of Custody: 663912	Job Name: Centennial High School	Date Submitted: 11/25/2024
Client: Howard County Public School System	Job Location: 4300 Centennial Lane, Ellicott City, MD 21042	Date Analyzed: 12/17/2024
Address: 10910 Route 108 Ellicott City Maryland 21042	Job Number: 13.036	Report Date: 12/18/2024
Attention: Christopher Madden	P.O. Number: Not Provided	Date Sampled: 11/20/2024 - 11/22/2024
		Person Submitting: Christopher Madden

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
663912-1	: CHS-01 Flush	11/20/2024 6:27 AM	Faucet, Cold, Yes (= Consumption), Kitchen, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.1 ug/L	
663912-2	: CHS-02 Flush	11/20/2024 6:28 AM	Faucet, Cold, Yes (= Consumption), Kitchen, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	7.0 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
663912-4	: CHS-04 First-Draw	11/20/2024 6:25 AM	Ice Machine (Stand Alone), Yes (= Consumption), Kitchen, See Floor Plan, Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-5	: CHS-05 First-Draw	11/22/2024 5:59 AM	Faucet, Cold, Yes (= Consumption), Kitchen, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	3.4 ug/L	
663912-6	: CHS-06 First-Draw	11/20/2024 6:19 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.1 ug/L	
663912-7	: CHS-07 First-Draw	11/20/2024 5:12 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-8	: CHS-07BW First-Draw	11/22/2024 6:03 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, See Floor Plan, Bottle Fill, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-9	: CHS-09 First-Draw	11/20/2024 5:13 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.8 ug/L	
663912-10	: CHS-10 First-Draw	11/20/2024 5:15 AM	Faucet, Cold, Yes (= Consumption), Office, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-11	: CHS-11 First-Draw	11/20/2024 5:24 AM	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.7 ug/L	
663912-12	: CHS-12 First-Draw	11/20/2024 5:26 AM	Faucet, Cold, Yes (= Consumption), Concessions, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-13	: CHS-13 First-Draw	11/20/2024 5:27 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Locker Room, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	<2 ug/L	
663912-14	: CHS-14 First-Draw	11/20/2024 5:30 AM	Ice Machine (Stand Alone), Yes (= Consumption), Locker Room, See Floor Plan, Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	<2 ug/L	

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663912-15	: CHS-14B First-Draw	11/20/2024 5:31 AM	Spigot (with threadings for hose connection), Yes (= Consumption), Locker Room, See Floor Plan, Spigot , Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-16	: CHS-15 First-Draw	11/20/2024 5:21 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Classroom, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.4 ug/L	
663912-17	: CHS-16 First-Draw	11/20/2024 5:20 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Classroom, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	7.9 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
663912-18	: CHS-17 First-Draw	11/20/2024 5:33 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-19	: CHS-17BW First-Draw	11/22/2024 6:08 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, See Floor Plan, Bottle Fill, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-20	: CHS-19 First-Draw	11/22/2024 6:12 AM	Ice Machine (Stand Alone), Yes (= Consumption), Locker Room, See Floor Plan, Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-21	: CHS-19A First-Draw	11/22/2024 6:13 AM	Spigot (with threadings for hose connection), Yes (= Consumption), Locker Room, See Floor Plan, Spigot , Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.9 ug/L	
663912-22	: CHS-21 First-Draw	11/20/2024 5:39 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Weight/Training/Fitness Room, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-23	: CHS-22 First-Draw	11/20/2024 5:42 AM	Faucet, Cold, Yes (= Consumption), Office, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-24	: CHS-24 First-Draw	11/20/2024 5:46 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-25	: CHS-26 First-Draw	11/20/2024 5:44 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-26	: CHS-26BW First-Draw	11/22/2024 6:17 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, See Floor Plan, Bottle Fill, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	

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663912-27	: CHS-27 First-Draw	11/20/2024 5:47 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-28	: CHS-30 First-Draw	11/20/2024 5:49 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-29	: CHS-31 First-Draw	11/20/2024 5:05 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-30	: CHS-33 First-Draw	11/20/2024 5:54 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-31	: CHS-33BW First-Draw	11/22/2024 6:23 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, See Floor Plan, Bottle Fill, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-32	: CHS-36 First-Draw	11/20/2024 5:58 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, See Floor Plan, Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	2.9 ug/L	
663912-33	: CHS-39 First-Draw	11/20/2024 6:00 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-34	: CHS-40 First-Draw	11/20/2024 6:01 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-35	: CHS-41 First-Draw	11/20/2024 6:02 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-36	: CHS-42 First-Draw	11/20/2024 6:03 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	<2 ug/L	
663912-37	: CHS-43 First-Draw	11/20/2024 6:04 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-38	: CHS-44 First-Draw	11/20/2024 6:05 AM	Faucet, Cold, Yes (= Consumption), Classroom (Home Economics), See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	

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663912-39	: CHS-45 First-Draw	11/20/2024 6:17 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-40	: CHS-48 First-Draw	11/20/2024 6:09 AM	Faucet, Cold, Yes (= Consumption), Nurse's Office/Health Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	4.4 ug/L	
663912-41	: CHS-49 First-Draw	11/20/2024 6:12 AM	Faucet, Cold, Yes (= Consumption), Office, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-42	: CHS-50 First-Draw	11/20/2024 6:14 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-43	: CHS-11BW First-Draw	11/20/2024 5:05 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, See Floor Plan, Bottle Fill, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.2 ug/L	
663912-44	: CHS-52 First-Draw	11/22/2024 6:01 AM	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Yes (= Consumption), Kitchen, See Floor Plan, Kettle, Main Bldg, 1st Floor	Furnace AA	Lead	2 ug/L	136 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
663912-45	: CHS-5 Flush	11/22/2024 6:38 AM	Faucet, Cold, Yes (= Consumption), Kitchen, See Floor Plan, Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<2 ug/L	
663912-46	: CHS-52 Flush	11/22/2024 6:41 AM	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Yes (= Consumption), Kitchen, See Floor Plan, Kettle, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	14.7 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.

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: Christopher Madden
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