



CERTIFICATE OF ANALYSIS

Chain of Custody: 631098
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Atholton Elementary School
Job Location: 6700 Seneca Drive, Columbia, MD
21046
Job Number: 13.03
P.O. Number: Not Provided

Date Submitted: 11/19/2021
Date Analyzed: 11/29/2021
Report Date: 11/30/2021
Date Sampled: 11/16/2021 - 11/17/2021
Person Submitting: Jeff Klenk
Revised: 12/01/2021 (Revision #1)

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					
631098-1	AES 2 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-2	AES 3F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L
631098-3	AES 4F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-4	AES 13F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	4.1 ug/L	
631098-5	AES 12 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-6	AES 14 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	0.82 ug/L	
631098-7	AES 16 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-8	AES 17F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-9	AES 21F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	0.52 ug/L	
631098-10	AES 22F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-11	AES 23F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	1.3 ug/L	
631098-12	AES 25 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-13	AES 26F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-14	AES 27F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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631098-15	AES 28F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-16	AES 29F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	2.2 ug/L	
631098-17	AES 30 First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-18	AES 31F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-19	AES 32F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	0.56 ug/L	
631098-20	AES 35F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-21	AES 36F First-Draw	11/16/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-22	AES 1 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Kitchen, , Fountain, ,	ICP	Lead	0.5 ug/L	0.75 ug/L	
631098-23	AES 2BW First-Draw	11/17/2021 5:54 am	Bottle Refill Dispenser/Water Refill Station, Consumption, Hallway, , Bottle Fill Station, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-24	AES 3S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	2.9 ug/L	
631098-25	AES 4S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	2.3 ug/L	
631098-26	AES 5 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, ,	ICP	Lead	0.5 ug/L	1.8 ug/L	
631098-27	AES 7 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Workroom, , Sink, ,	ICP	Lead	0.5 ug/L	1.2 ug/L	



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		Date/Time	Location					
631098-28	AES 10S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	8 ug/L	8.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
631098-29	AES 13S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	5.5 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
631098-31	AES 17S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	3.3 ug/L	
631098-32	AES 18 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	1.1 ug/L	
631098-33	AES 19 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L
631098-34	AES 20 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	1.2 ug/L	
631098-35	AES 21S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	3.2 ug/L	
631098-36	AES 22S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	4 ug/L	4.0 ug/L
631098-37	AES 23S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	5.3 ug/L	
631098-38	AES 24 First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Office, , Sink, ,	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L
631098-39	AES 26S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	3.2 ug/L	



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631098-40	AES 27S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-41	AES 28S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-42	AES 29S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	1.3 ug/L	
631098-43	AES 31S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L
631098-44	AES 32S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-45	AES 35S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
631098-46	AES 36S First-Draw	11/17/2021 5:54 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	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
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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