



CERTIFICATE OF ANALYSIS

Chain of Custody: 635763

Client: Howard County Public School System

Address: 10910 Route 108
Ellicott City, MD 21042

Attention: Jeff Klenk

Job Name: Atholton High School

Job Location: 6520 Freetown Road, Columbia, MD
21044

Job Number: 13.013

P.O. Number: Not Provided

Date Submitted: 05/03/2022

Date Analyzed: 05/10/2022

Report Date: 05/11/2022

Date Sampled: 04/28/2022 - 04/29/2022

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					
635763-1	AHS 1A First-Draw	04/29/2022 5:14 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , Kettle, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-2	AHS 1B Flush	04/29/2022 5:14 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-3	AHS 2A First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.3 ug/L	
635763-4	AHS 2B Flush	04/29/2022 5:14 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-5	AHS 3 First-Draw	04/28/2022 5:17 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-6	AHS 4A First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-7	AHS 4B Flush	04/29/2022 5:14 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-8	AHS 6 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-9	AHS 7 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-10	AHS 8 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-11	AHS 10 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-12	AHS 11 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-13	AHS 13 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Weight/Training/Fitness Room, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-14	AHS 14 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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635763-15	AHS 14A First-Draw	04/29/2022 5:14 am	Spigot (with threadings for hose connection), Consumption, Laundry Room, , Spigot, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-16	AHS 15 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Weight/Training/Fitness Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-17	AHS 16 First-Draw	04/28/2022 5:17 am	Ice Machine (Stand Alone), Consumption, Weight/Training/Fitness Room, , Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-18	AHS 17 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-19	AHS 18 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-20	AHS 19 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-21	AHS 20 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-22	AHS 21 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-23	AHS 22 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-24	AHS 23 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-25	AHS 24 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-26	AHS 25 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-27	AHS 26 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2 ug/L	2.0 ug/L.
635763-28	AHS 27 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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635763-29	AHS 28 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-30	AHS 29 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-31	AHS 30 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, , , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-32	AHS 31F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , 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.
635763-33	AHS 31S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	11 ug/L	10.9 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.



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635763-34	AHS 32F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	69 ug/L	69.1 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635763-35	AHS 32S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	110 ug/L	109 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635763-36	AHS 33F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-37	AHS 33S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-38	AHS 34F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-39	AHS 34S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-40	AHS 35 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-41	AHS 36F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.8 ug/L	



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635763-42	AHS 36S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-43	AHS 37F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-44	AHS 37S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-45	AHS 38 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-46	AHS 39 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-47	AHS 40 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-48	AHS 41 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-49	AHS 42 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-50	AHS 43 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-51	AHS 44 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-52	AHS 45 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-53	AHS 46 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-54	AHS 47 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-55	AHS 48 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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635763-56	AHS 49 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-57	AHS 50 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-58	AHS 51 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-59	AHS 52 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-60	AHS 53 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-61	AHS 53BW First-Draw	04/29/2022 5:14 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Bottle Filler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-62	AHS 54 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-63	AHS 55 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-64	AHS 56F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Nurse's Office/Health Room, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-65	AHS 56S First-Draw	04/29/2022 5:14 am	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-66	AHS 57 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-67	AHS 58 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-68	AHS 59F First-Draw	04/28/2022 5:17 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-69	AHS 59S First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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635763-70	AHS 60 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-71	AHS 61 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-72	AHS 62 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-73	AHS 63 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-74	AHS 64 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-75	AHS 65 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-76	AHS 66 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-77	AHS 66BW First-Draw	04/29/2022 5:14 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Bottle Filler, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-78	AHS 67 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-79	AHS 69 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-80	AHS 70 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	2.2 ug/L	
635763-81	AHS 71 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
635763-82	AHS 72 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-83	AHS 73 First-Draw	04/28/2022 5:17 am	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Stadium, , Fountain, Outdoors,	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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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					
635763-84	AHS 74 First-Draw	04/29/2022 5:14 am	Faucet, Cold, Consumption, Concessions, , Sink, Outdoors,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-85	AHS 75 First-Draw	04/29/2022 5:14 am	Spigot (with threadings for hose connection), Consumption, Stadium, , Spigot, Outdoors,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
635763-86	AHS 76 First-Draw	04/29/2022 5:14 am	Spigot (with threadings for hose connection), Consumption, Stadium, , Spigot, Outdoors,	Furnace AA	Lead	1 ug/L	14 ug/L	14.1 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.

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, ug/L = Parts Per Billion, N/P = Not Provided

Analyst(s): Nida McGarvey

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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