

**CERTIFICATE OF ANALYSIS** 

Maryland Water Quality Lab #262W

**NY ELAP** 

10920

**Chain of Custody:** 634167

Client: Howard County Public School System

Address: 10910 Route 108

Ellicott City, MD 21042

**Attention:** Jeff Klenk

Job Name: Lisbon ES

Job Location: 15901 Frederick Road Woodbine

21797

**Job Number:** 13.004

P.O. Number: Not Provided

**Date Submitted:** 03/18/2022

**Date Analyzed:** 03/24/2022

**Report Date:** 03/25/2022

**Date Sampled:** 03/17/2022 - 03/18/2022

**Person Submitting:** Jeff Klenk

**Revised:** 03/28/2022 (Revision #1)

AMA Sample Number	Client Sample Number	Date/Time	Sample Collection Information  Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
634167-1	LIES 1 Flush	03/18/2022 5:36 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
634167-2	LIES 5 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167-3	LIES 6F First-Draw	03/17/2022 5:40 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
634167-4	LIES 7F First-Draw	03/17/2022 5:40 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.9 ug/L	
634167-5	LIES 7S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
634167-6	LIES 8F First-Draw	03/17/2022 5:40 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	9.4 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
634167-7	LIES 8S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.9 ug/L	
634167-8	LIES 9S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
634167-9	LIES 2 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.2 ug/L	
634167- 10	LIES 6S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
634167- 11	LIES 10 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 12	LIES 11 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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634167- 13	LIES 12 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 14	LIES 13 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.7 ug/L	
634167- 15	LIES 14 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.4 ug/L	
634167- 16	LIES 15 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.9 ug/L	
634167- 17	LIES 16 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.8 ug/L	
634167- 18	LIES 17 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.6 ug/L	
634167- 19	LIES 18 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 20	LIES 19 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.6 ug/L	
634167- 21	LIES 20 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 22	LIES 21 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.3 ug/L	
634167- 23	LIES 22 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.7 ug/L	
634167- 24	LIES 23 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	5.9 ug/L	This results meets or exceeds the 5.5ppb action leve as established by MDE for schools.



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634167- 25	LIES 24 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.5 ug/L	
634167- 26	LIES 25 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.7 ug/L	
634167- 27	LIES 26 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
634167- 28	LIES 27 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.8 ug/L	
634167- 29	LIES 28 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.4 ug/L	
634167- 30	LIES 29 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.5 ug/L	
634167- 31	LIES 30 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3 ug/L	3.0 ug/L.
634167- 32	LIES 32 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 33	LIES 33 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
634167- 34	LIES 34 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.6 ug/L	
634167- 35	LIES 35 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2 ug/L	2.0 ug/L.
634167- 36	LIES 36 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.7 ug/L	
634167- 37	LIES 37 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.8 ug/L	
634167- 38	LIES 38 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2 ug/L	2.0 ug/L.



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634167- 39	LIES 39F First-Draw	03/17/2022 5:40 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
634167- 40	LIES 39S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.6 ug/L	
634167- 41	LIES 3S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.1 ug/L	
634167- 42	LIES 40F First-Draw	03/17/2022 5:40 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 43	LIES 40S First-Draw	03/18/2022 5:36 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.1 ug/L	
634167- 44	LIES 41 First-Draw	03/17/2022 5:40 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
634167- 45	LIES 42S First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
634167- 46	LIES 43 First-Draw	03/18/2022 5:36 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.1 ug/L	



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#### **Summary of Drinking Water Analysis for Metals**

Sample Collection Information AMA **Client Sample** Analysis Sample Reporting Final Comments Number Type **Analyte Limit** Result Sample

Date/Time Location Number

Analysis Methods: Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 Sample Collector: Jeff Klenk

(Rev. 5.4)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, μg/L = Parts Per Billion, N/P = Not Provided

Analyst(s): Nida McGarvey

**Certification:** 

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

Director

George Ind Technical George Land

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