



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 615210  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeff Klenk

**Job Name:** Mayfield Woods Middle School  
**Job Location:** Elkridge, MD 21075  
**Job Number:** 13.045  
**P.O. Number:** Not Provided

**Date Submitted:** 06/07/2019  
**Date Analyzed:** 06/12/2019  
**Report Date:** 06/14/2019  
**Date Sampled:** 06/06/2019 - 06/07/2019  
**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					
615210-1	MWMS 6	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	2.7 ug/L	
615210-2	MWMS 7	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-3	MWMS 8	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-4	MWMS 9	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-5	MWMS 11	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-6	MWMS 21	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-7	MWMS 23F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	1.2 ug/L	
615210-8	MWMS 25F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	5.9 ug/L	
615210-9	MWMS 26F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	26 ug/L	26.2 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-10	MWMS 27	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-11	MWMS 28	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-12	MWMS 29F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	34 ug/L	34.5 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-13	MWMS 30F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	40 ug/L	40.1 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-14	MWMS 31F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	5.7 ug/L	
615210-15	MWMS 32	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-16	MWMS 33F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	19 ug/L	18.5 ug/L.
615210-17	MWMS 34F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	9.2 ug/L	
615210-18	MWMS 35F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	8.6 ug/L	



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615210-19	MWMS 36F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	31 ug/L	30.8 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-20	MWMS 37	06/06/2019 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-21	MWMS 38F	06/06/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	44 ug/L	43.6 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-22	MWMS 2	06/07/2019 5:33 am	KS	ICP	Lead	0.5 ug/L	57 ug/L	57.2 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-23	MWMS 3	06/07/2019 5:33 am	IM	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
615210-24	MWMS 4	06/07/2019 5:33 am	KS	ICP	Lead	0.5 ug/L	1.8 ug/L	
615210-25	MWMS 5	06/07/2019 5:33 am	KS	ICP	Lead	0.5 ug/L	3.3 ug/L	
615210-26	MWMS 10	06/07/2019 5:33 am	TL	ICP	Lead	0.5 ug/L	1.2 ug/L	
615210-27	MWMS 12	06/07/2019 5:33 am	NO	ICP	Lead	0.5 ug/L	1.5 ug/L	
615210-28	MWMS 13	06/07/2019 5:33 am	OT.2	ICP	Lead	0.5 ug/L	200 ug/L	196.7 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-29	MWMS 14	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	1.3 ug/L	
615210-30	MWMS 15	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	2.2 ug/L	
615210-31	MWMS 16	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	2 ug/L	
615210-32	MWMS 17	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	1.1 ug/L	
615210-33	MWMS 18	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	3.7 ug/L	
615210-34	MWMS 19	06/07/2019 5:33 am	HE	ICP	Lead	0.5 ug/L	3.4 ug/L	
615210-35	MWMS 20	06/07/2019 5:33 am	OT.7	ICP	Lead	0.5 ug/L	1.5 ug/L	
615210-36	MWMS 22	06/07/2019 5:33 am	OT.6	ICP	Lead	0.5 ug/L	2.5 ug/L	



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		Date/Time	Location					
615210-37	MWMS 23S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	1.4 ug/L	
615210-38	MWMS 24	06/07/2019 5:33 am	OT.6	ICP	Lead	0.5 ug/L	1.1 ug/L	
615210-39	MWMS 25S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	4.7 ug/L	
615210-40	MWMS 26S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	7.4 ug/L	
615210-41	MWMS 29S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	390 ug/L	394.0 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-42	MWMS 30S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	4.4 ug/L	
615210-43	MWMS 31S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	14 ug/L	13.9 ug/L.
615210-44	MWMS 33S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	6.4 ug/L	
615210-45	MWMS 34S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	7.2 ug/L	
615210-46	MWMS 35S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	35 ug/L	35.4 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-47	MWMS 36S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	140 ug/L	137.9 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
615210-48	MWMS 38S	06/07/2019 5:33 am	CC/S	ICP	Lead	0.5 ug/L	8.4 ug/L	
615210-49	MWMS 39	06/07/2019 5:33 am	OT.6	ICP	Lead	0.5 ug/L	7.8 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** G. Edward Carney

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