



CERTIFICATE OF ANALYSIS

Chain of Custody: 618726
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Ellicott Mills Middle
Job Location: 4445 Montgomery Road, Ellicott City,
21043
Job Number: 13.026
P.O. Number: Not Provided

Date Submitted: 11/06/2019
Date Analyzed: 11/09/2019
Report Date: 11/12/2019
Date Sampled: 10/24/2019
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					
618726-1	EMMS 1 FD	10/24/2019 5:03 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-2	EMMS 2 FD	10/24/2019 5:03 am	OT.2	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-3	EMMS 3 FD	10/24/2019 5:03 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-4	EMMS 4 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	0.8 ug/L	
618726-5	EMMS 5 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	1.4 ug/L	
618726-6	EMMS 7S FD	10/24/2019 5:03 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
618726-7	EMMS 8 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	0.86 ug/L	
618726-8	EMMS 9 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	0.62 ug/L	
618726-9	EMMS 10 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-10	EMMS 11 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-11	EMMS 12 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-12	EMMS 13 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-13	EMMS 14 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-14	EMMS 15 FD	10/24/2019 5:03 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-15	EMMS 16 FD	10/24/2019 5:03 am	KS	ICP	Lead	0.5 ug/L	0.7 ug/L	
618726-16	EMMS 17 FD	10/24/2019 5:03 am	KS	ICP	Lead	0.5 ug/L	2.6 ug/L	
618726-17	EMMS 18 FD	10/24/2019 5:03 am	KK	ICP	Lead	0.5 ug/L	38 ug/L	37.5 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
618726-18	EMMS 19 FD	10/24/2019 5:03 am	KS	ICP	Lead	0.5 ug/L	0.6 ug/L	
618726-19	EMMS 20 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-20	EMMS 21 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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618726-21	EMMS 22 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-22	EMMS 23 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-23	EMMS 24 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-24	EMMS 25 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-25	EMMS 26 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-26	EMMS 27 FD	10/24/2019 5:03 am	OT.6	ICP	Lead	0.5 ug/L	9.6 ug/L	
618726-27	EMMS 28 FD	10/24/2019 5:03 am	OT.6	ICP	Lead	0.5 ug/L	5.7 ug/L	
618726-28	EMMS 29 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-29	EMMS 30 FD	10/24/2019 5:03 am	OT.6	ICP	Lead	0.5 ug/L	6.6 ug/L	
618726-30	EMMS 31 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	0.91 ug/L	
618726-31	EMMS 32 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-32	EMMS 33 FD	10/24/2019 5:03 am	OT.7	ICP	Lead	0.5 ug/L	0.68 ug/L	
618726-33	EMMS 34 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-34	EMMS 35 FD	10/24/2019 5:03 am	OT.5	ICP	Lead	0.5 ug/L	3.3 ug/L	
618726-35	EMMS 36 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	0.97 ug/L	
618726-36	EMMS 37 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-37	EMMS 38 FD	10/24/2019 5:03 am	OT.6	ICP	Lead	0.5 ug/L	17 ug/L	16.6 ug/L.
618726-38	EMMS 39 FD	10/24/2019 5:03 am	OT.6	ICP	Lead	0.5 ug/L	9.1 ug/L	
618726-39	EMMS 40 FD	10/24/2019 5:03 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618726-40	EMMS 41 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
618726-41	EMMS 42 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	2.3 ug/L	
618726-42	EMMS 43 FD	10/24/2019 5:03 am	CR	ICP	Lead	0.5 ug/L	1.1 ug/L	
618726-43	EMMS 44 FD	10/24/2019 5:03 am	DF/C	ICP	Lead	0.5 ug/L	2.7 ug/L	
618726-44	EMMS 7F FD	10/25/2019 5:15 am	CC/B	ICP	Lead	0.5 ug/L	0.85 ug/L	
618726-45	EMMS 24BW FD	10/25/2019 5:15 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	

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

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.