



CERTIFICATE OF ANALYSIS

Chain of Custody: 620645
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Hollifield Station Elementary School
Job Location: 8701 Stonehouse Drive, Ellicott City
MD 21043
Job Number: 13.067
P.O. Number: Not Provided

Date Submitted: 02/21/2020
Date Analyzed: 02/27/2020
Report Date: 02/28/2020
Date Sampled: 02/20/2020 - 02/21/2020
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					
620645-1	HSES 3 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-2	HSES 4 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-3	HSES 5 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-4	HSES 6F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	0.82 ug/L	
620645-5	HSES 7F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-6	HSES 8F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-7	HSES 10F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-8	HSES 11F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-9	HSES 12 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-10	HSES 13F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	0.71 ug/L	
620645-11	HSES 15F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-12	HSES 16F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-13	HSES 18F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-14	HSES 19F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-15	HSES 20F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	1.3 ug/L	
620645-16	HSES 21F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-17	HSES 22F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-18	HSES 24F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-19	HSES 25F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-20	HSES 29 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620645-21	HSES 30 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-22	HSES 35F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-23	HSES 36F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-24	HSES 38F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-25	HSES 39F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-26	HSES 40F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	1 ug/L	
620645-27	HSES 41 FD	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-28	HSES 42F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-29	HSES 43F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-30	HSES 44F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-31	HSES 46F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-32	HSES 47F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-33	HSES 48 FD.	02/20/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-34	HSES 49F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-35	HSES 50F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-36	HSES 51F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	2.1 ug/L	
620645-37	HSES 52F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	1.7 ug/L	
620645-38	HSES 53F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	0.83 ug/L	
620645-39	HSES 54F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-40	HSES 57F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620645-41	HSES 58F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-42	HSES 59F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-43	HSES 60F FD	02/20/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-44	HSES 61F FD	02/20/2020 5:11 am	DF/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-45	HSES 1 FD	02/21/2020 5:45 am	KS	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-46	HSES 2 FD	02/21/2020 5:45 am	IM	ICP	Lead	0.5 ug/L	0.82 ug/L	
620645-47	HSES 6S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-48	HSES 7S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-49	HSES 8S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-50	HSES 9 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-51	HSES 10S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-52	HSES 11S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-53	HSES 13S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-54	HSES 14 FD	02/21/2020 5:45 am	OT.7	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-55	HSES 15S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-56	HSES 16S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-57	HSES 17 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-58	HSES 18S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-59	HSES 19S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-60	HSES 20S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
620645-61	HSES 21S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-62	HSES 22S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-63	HSES 23 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-64	HSES 24S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-65	HSES 25S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-66	HSES 26 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-67	HSES 27 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	3.4 ug/L	
620645-68	HSES 28 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-69	HSES 31 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-70	HSES 32 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-71	HSES 33 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-72	HSES 34 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-73	HSES 35S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-74	HSES 36S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-75	HSES 37 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-76	HSES 38S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-77	HSES 39S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-78	HSES 40S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-79	HSES 42S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-80	HSES 43S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620645-81	HSES 44S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-82	HSES 45 FD	02/21/2020 5:45 am	CR	ICP	Lead	0.5 ug/L	0.78 ug/L	
620645-83	HSES 46S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-84	HSES 47S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-85	HSES 49S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-86	HSES 50S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-87	HSES 51S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	0.61 ug/L	
620645-88	HSES 52S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-89	HSES 53S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-90	HSES 54S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-91	HSES 55 FD	02/21/2020 5:45 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-92	HSES 56 FD	02/21/2020 5:45 am	OT.2	ICP	Lead	0.5 ug/L	0.57 ug/L	
620645-93	HSES 57S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-94	HSES 58S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	0.84 ug/L	
620645-95	HSES 59S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620645-96	HSES 60S FD	02/21/2020 5:45 am	CC/S	ICP	Lead	0.5 ug/L	1.5 ug/L	
620645-97	HSES 61S FD	02/21/2020 5:45 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-98	HSES 5BW FD	02/21/2020 5:45 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-99	HSES 30BW FD	02/21/2020 5:45 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620645-100	HSES 41BW FD	02/21/2020 5:45 am	OT.1	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

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.