



CERTIFICATE OF ANALYSIS

Chain of Custody: 610403
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Clarksville ES
Job Location: 12041 Clarksville Pike (Route 108),
Clarksville, MD 21029
Job Number: 13.037
P.O. Number: Not Provided

Date Submitted: 09/26/2018
Date Analyzed: 10/02/2018
Report Date: 10/03/2018
Date Sampled: 09/25/2018 - 09/26/2018
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					
610403-1	CES 4F 1st Draw	09/25/2015 5:54 am	CC/B	ICP	Lead	0.5 ug/L	0.54 ug/L	
610403-2	CES 15F 1st Draw	09/25/2015 5:55 am	CC/B	ICP	Lead	0.5 ug/L	2.5 ug/L	
610403-3	CES 16F 1st Draw	09/25/2015 5:56 am	CC/B	ICP	Lead	0.5 ug/L	0.52 ug/L	
610403-4	CES 17F 1st Draw	09/25/2015 5:57 am	CC/B	ICP	Lead	0.5 ug/L	2.2 ug/L	
610403-5	CES 23F 1st Draw	09/25/2015 5:58 am	CC/B	ICP	Lead	0.5 ug/L	2.1 ug/L	
610403-6	CES 24F 1st Draw	09/25/2015 6:02 am	CC/B	ICP	Lead	0.5 ug/L	2.6 ug/L	
610403-7	CES 25F 1st Draw	09/25/2015 6:04 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-8	CES 26F 1st Draw	09/25/2015 6:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-9	CES 27F 1st Draw	09/25/2015 6:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-10	CES 1 1st Draw	09/26/2018 5:41 am	NO	ICP	Lead	0.5 ug/L	1.2 ug/L	
610403-11	CES 2 1st Draw	09/26/2018 5:41 am	NO	ICP	Lead	0.5 ug/L	1.1 ug/L	
610403-12	CES 3 1st Draw	09/26/2018 5:42 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-13	CES 4S 1st Draw	09/26/2018 5:44 am	CC/S	ICP	Lead	0.5 ug/L	2.2 ug/L	
610403-14	CES 5 1st Draw	09/26/2018 5:46 am	OT.7	ICP	Lead	0.5 ug/L	27 ug/L	26.9 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
610403-15	CES 6 1st Draw	09/26/2018 5:46 am	OT.7	ICP	Lead	0.5 ug/L	3.7 ug/L	
610403-16	CES 7 1st Draw	09/26/2018 5:47 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-17	CES 8 1st Draw	09/26/2018 5:47 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-18	CES 9 1st Draw	09/26/2018 5:48 am	CR	ICP	Lead	0.5 ug/L	4.4 ug/L	
610403-19	CES 10 1st Draw	09/26/2018 5:49 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-20	CES 11 1st Draw	09/26/2018 5:50 am	CR	ICP	Lead	0.5 ug/L	3.4 ug/L	



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		Date/Time	Location					
610403-21	CES 12 1st Draw	09/26/2018 5:50 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-22	CES 13 1st Draw	09/26/2018 5:50 am	CR	ICP	Lead	0.5 ug/L	3.7 ug/L	
610403-23	CES 14 1st Draw	09/26/2018 5:52 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-24	CES 15S 1st Draw	09/26/2018 5:54 am	CC/S	ICP	Lead	0.5 ug/L	0.89 ug/L	
610403-25	CES 16S 1st Draw	09/26/2018 5:54 am	CC/S	ICP	Lead	0.5 ug/L	0.57 ug/L	
610403-26	CES 17S 1st Draw	09/26/2018 5:54 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-27	CES 18 1st Draw	09/26/2018 5:56 am	CR	ICP	Lead	0.5 ug/L	1.1 ug/L	
610403-28	CES 19 1st Draw	09/26/2018 5:56 am	CR	ICP	Lead	0.5 ug/L	5.3 ug/L	
610403-29	CES 20 1st Draw	09/26/2018 5:56 am	CR	ICP	Lead	0.5 ug/L	2.7 ug/L	
610403-30	CES 21 1st Draw	09/26/2018 5:58 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-31	CES 22 1st Draw	09/26/2018 5:58 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-32	CES 23S 1st Draw	09/26/2018 6:00 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
610403-33	CES 24S 1st Draw	09/26/2018 6:01 am	CC/S	ICP	Lead	0.5 ug/L	2.3 ug/L	
610403-34	CES 25S 1st Draw	09/26/2018 6:02 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-35	CES 26S 1st Draw	09/26/2018 6:03 am	CC/S	ICP	Lead	0.5 ug/L	0.85 ug/L	
610403-36	CES 27S 1st Draw	09/26/2018 6:04 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-37	CES 28 1st Draw	09/26/2018 6:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
610403-38	CES 29 1st Draw	09/26/2018 6:08 am	KS	ICP	Lead	0.5 ug/L	0.51 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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