



CERTIFICATE OF ANALYSIS

Chain of Custody: 613508
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Rockburn Elementary School
Job Location: 6145 Montgomery Road, Elkridge, MD
21075
Job Number: 13.050
P.O. Number: Not Provided

Date Submitted: 03/08/2019
Date Analyzed: 03/16/2019
Report Date: 03/16/2019
Date Sampled: 03/05/2019
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					
613508-1	ROES 2F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-2	ROES 6F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-3	ROES 7 1st Draw	03/05/2019 5:08 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-4	ROES 8F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-5	ROES 9F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-6	ROES 10F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-7	ROES 11F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-8	ROES 12 1st Draw	03/05/2019 5:08 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-9	ROES 13F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-10	ROES 14F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-11	ROES 15F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-12	ROES 17F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-13	ROES 21F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-14	ROES 22 1st Draw	03/05/2019 5:08 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-15	ROES 24F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-16	ROES 28F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-17	ROES 29F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	0.69 ug/L	
613508-18	ROES 33F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-19	ROES 35F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-20	ROES 36F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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613508-21	ROES 39F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-22	ROES 41F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	0.58 ug/L	
613508-23	ROES 42F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-24	ROES 43F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-25	ROES 44F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-26	ROES 45F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-27	ROES 46F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-28	ROES 47F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-29	ROES 48F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	1.3 ug/L	
613508-30	ROES 50 1st Draw	03/05/2019 5:08 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-31	ROES 51 1st Draw	03/05/2019 5:08 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-32	ROES 55F 1st Draw	03/05/2019 5:08 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-33	ROES 1 1st Draw	03/06/2019 5:08 am	KS	ICP	Lead	0.5 ug/L	2 ug/L	
613508-34	ROES 2S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	1.5 ug/L	
613508-35	ROES 3 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	2.1 ug/L	
613508-36	ROES 4 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.81 ug/L	
613508-37	ROES 5 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	4.2 ug/L	
613508-38	ROES 6S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	2.2 ug/L	
613508-39	ROES 8S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	2.5 ug/L	
613508-40	ROES 9S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.54 ug/L	



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		Date/Time	Location					
613508-41	ROES 10S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
613508-42	ROES 11S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.51 ug/L	
613508-43	ROES 13S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
613508-44	ROES 14S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
613508-45	ROES 15S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.97 ug/L	
613508-46	ROES 16 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.9 ug/L	
613508-47	ROES 17S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.57 ug/L	
613508-48	ROES 18 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	2.3 ug/L	
613508-49	ROES 19 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-50	ROES 20 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.96 ug/L	
613508-51	ROES 21S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.92 ug/L	
613508-52	ROES 23 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.3 ug/L	
613508-53	ROES 24S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-54	ROES 25 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.4 ug/L	
613508-55	ROES 26 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.71 ug/L	
613508-56	ROES 27 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.6 ug/L	
613508-57	ROES 28S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.58 ug/L	
613508-58	ROES 29S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
613508-59	ROES 30 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.73 ug/L	
613508-60	ROES 31 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.1 ug/L	



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		Date/Time	Location					
613508-61	ROES 32 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	1.6 ug/L	
613508-62	ROES 33S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.87 ug/L	
613508-63	ROES 34 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	5.6 ug/L	
613508-64	ROES 35S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.79 ug/L	
613508-65	ROES 36S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	2.4 ug/L	
613508-66	ROES 37 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.93 ug/L	
613508-67	ROES 38 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	0.54 ug/L	
613508-68	ROES 39S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-69	ROES 40 1st Draw	03/06/2019 5:08 am	OT.7	ICP	Lead	0.5 ug/L	0.81 ug/L	
613508-70	ROES 41S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.62 ug/L	
613508-71	ROES 42S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-72	ROES 43S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-73	ROES 44S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.56 ug/L	
613508-74	ROES 45S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-75	ROES 46S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-76	ROES 47S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	0.78 ug/L	
613508-77	ROES 48S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	4.3 ug/L	
613508-78	ROES 49 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-79	ROES 52 1st Draw	03/06/2019 5:08 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
613508-80	ROES 53 1st Draw	03/06/2019 5:08 am	OT.2	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
613508-81	ROES 54 1st Draw	03/06/2019 5:08 am	TL	ICP	Lead	0.5 ug/L	1 ug/L	
613508-82	ROES 55S 1st Draw	03/06/2019 5:08 am	CC/S	ICP	Lead	0.5 ug/L	2.1 ug/L	
613508-83	ROES 56 1st Draw	03/06/2019 5:08 am	CR	ICP	Lead	0.5 ug/L	16 ug/L	16.3 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)

Sample Collector: Jeff Klenk

Certification:

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

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

Analyst(s): Jean-Paul Littleton, George Land

Technical Director G. Edward Carney

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