



CERTIFICATE OF ANALYSIS

Chain of Custody: 620934
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Waverly Elementary School
Job Location: 10220 Wetherburn Road, Ellicott City,
MD 21042
Job Number: 13.043
P.O. Number: Not Provided

Date Submitted: 03/06/2020
Date Analyzed: 03/12/2020
Report Date: 03/16/2020
Date Sampled: 03/04/2020 - 03/05/2020
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					
620934-1	WAVES 2F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	2.3 ug/L	
620934-2	WAVES 3F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-3	WAVES 4F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-4	WAVES 5F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-5	WAVES 6	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-6	WAVES 7	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-7	WAVES 8F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-8	WAVES 9F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-9	WAVES 10F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-10	WAVES 11F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-11	WAVES 12F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-12	WAVES 13F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-13	WAVES 14F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-14	WAVES 15F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-15	WAVES 16F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-16	WAVES 17F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-17	WAVES 18F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-18	WAVES 19	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-19	WAVES 20	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-20	WAVES 21F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620934-21	WAVES 22F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-22	WAVES 23F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-23	WAVES 24F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-24	WAVES 25F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-25	WAVES 26F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-26	WAVES 27F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-27	WAVES 28F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-28	WAVES 29F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-29	WAVES 30F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-30	WAVES 31F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-31	WAVES 32F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	0.62 ug/L	
620934-32	WAVES 33F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-33	WAVES 34F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	2.7 ug/L	
620934-34	WAVES 35F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-35	WAVES 36F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-36	WAVES 37F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-37	WAVES 38F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-38	WAVES 39	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-39	WAVES 40	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-40	WAVES 41F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	0.92 ug/L	



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620934-41	WAVES 42F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-42	WAVES 43F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-43	WAVES 44F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-44	WAVES 45F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-45	WAVES 46F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-46	WAVES 47	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-47	WAVES 48	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-48	WAVES 49F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-49	WAVES 50F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-50	WAVES 51F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-51	WAVES 52F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-52	WAVES 53F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-53	WAVES 55	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-54	WAVES 56	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-55	WAVES 57F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-56	WAVES 58F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-57	WAVES 59F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-58	WAVES 63F	03/04/2020 5:06 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-59	WAVES 64F	03/04/2020 5:06 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-60	WAVES 65F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620934-61	WAVES 66F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-62	WAVES 68F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-63	WAVES 69F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-64	WAVES 70	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-65	WAVES 71	03/04/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-66	WAVES 72F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-67	WAVES 73F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-68	WAVES 74F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	2 ug/L	
620934-69	WAVES 75F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-70	WAVES 76F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-71	WAVES 78F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-72	WAVES 79F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-73	WAVES 80F	03/04/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-74	WAVES 1	03/05/2020 5:20 am	OT.2	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-75	WAVES 2S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-76	WAVES 3S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.55 ug/L	
620934-77	WAVES 4S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-78	WAVES 5S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-79	WAVES 7BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-80	WAVES 8S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620934-81	WAVES 10S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-82	WAVES 11S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-83	WAVES 12S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-84	WAVES 13S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-85	WAVES 14S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-86	WAVES 15S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-87	WAVES 16S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-88	WAVES 17S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-89	WAVES 18S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-90	WAVES 20BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-91	WAVES 21S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-92	WAVES 22S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-93	WAVES 23S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-94	WAVES 24S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-95	WAVES 25S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-96	WAVES 26S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-97	WAVES 27S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-98	WAVES 28S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-99	WAVES 29S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-100	WAVES 30S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620934-101	WAVES 31S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-102	WAVES 32S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-103	WAVES 33S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-104	WAVES 34S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.52 ug/L	
620934-105	WAVES 35S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-106	WAVES 36S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-107	WAVES 37S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-108	WAVES 38S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.58 ug/L	
620934-109	WAVES 40BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-110	WAVES 41S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.9 ug/L	
620934-111	WAVES 42S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-112	WAVES 43S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-113	WAVES 44S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-114	WAVES 45S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-115	WAVES 46S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-116	WAVES 48BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-117	WAVES 49S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-118	WAVES 50S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.6 ug/L	
620934-119	WAVES 51S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-120	WAVES 52S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	0.84 ug/L	



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620934-121	WAVES 53S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-122	WAVES 54	03/05/2020 5:20 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-123	WAVES 56BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-124	WAVES 57S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-125	WAVES 58S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-126	WAVES 59S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-127	WAVES 60	03/05/2020 5:20 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-128	WAVES 61	03/05/2020 5:20 am	KS	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-129	WAVES 63S	03/05/2020 5:20 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-130	WAVES 64S	03/05/2020 5:20 am	NO	ICP	Lead	0.5 ug/L	0.6 ug/L	
620934-131	WAVES 65S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-132	WAVES 66S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-133	WAVES 68S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-134	WAVES 69S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-135	WAVES 71BW	03/05/2020 5:20 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-136	WAVES 72S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-137	WAVES 73S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-138	WAVES 74S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
620934-139	WAVES 75S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-140	WAVES 76S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



CERTIFICATE OF ANALYSIS

Chain of Custody: 620934
Client: Howard County Public School System
Address: 10910 Route 108
 Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Waverly Elementary School
Job Location: 10220 Wetherburn Road, Ellicott City,
 MD 21042
Job Number: 13.043
P.O. Number: Not Provided

Date Submitted: 03/06/2020
Date Analyzed: 03/12/2020
Report Date: 03/16/2020
Date Sampled: 03/04/2020 - 03/05/2020
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					
620934-141	WAVES 77S	03/05/2020 5:20 am	OT.2	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-142	WAVES 78S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-143	WAVES 79S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-144	WAVES 80S	03/05/2020 5:20 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620934-145	WAVES 9S	03/05/2020 5:20 am	CC/S	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)

Sample Collector: Jeff Kelnk
Certification:

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/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

Technical Director George Land

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