



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel
Receiving Lab: Canada-Whitehorse
Received: July 24, 2017
Report Date: August 24, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000352.1

CLIENT JOB INFORMATION

Project: Keno Silver
Shipment ID: Keno 3
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **Metallic Minerals Corp.**
#904 - 409 Granville Street
Vancouver British Columbia V6C 1T2
Canada

CC: Debbie James
Stuart Morris

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	13	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	13	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	13	Per sample shipping charges for branch shipments			VAN
AR402	5	Aqua Regia Digestion 0.5g / 100 mL (SCH)	0.5	Completed	VAN
FA430	2	Lead collection fire assay fusion - AAS finish	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

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Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
113351	Rock	2.38	0.4	>10000	601.7	9505	82.0	6.3	2.1	46	0.55	824.1	280.3	<0.1	7	123.3	>2000	12.2	<2	0.05	<0.001
113352	Rock	0.78	0.3	202.4	17.4	110	0.4	269.8	66.0	1163	7.28	246.9	3.3	0.9	121	0.8	94.4	<0.1	33	9.30	0.208
113353	Rock	1.63	0.3	84.7	18.6	70	0.2	91.4	28.9	1606	4.03	138.2	2.9	0.4	567	0.7	50.0	<0.1	17	21.86	0.103
113354	Rock	1.52	0.3	8.3	2.1	25	<0.1	6.6	6.9	1603	3.44	1.8	0.8	0.2	148	0.1	5.4	<0.1	44	8.40	0.016
1907516	Rock	1.36	4.3	8098.5	>10000	>10000	>100	52.8	26.7	381	0.75	145.2	270.9	<0.1	36	>2000	>2000	3.2	<2	0.11	0.003
1907517	Rock	1.23	0.3	>10000	>10000	>10000	>100	13.4	3.0	71	0.98	564.4	28665.4	<0.1	122	>2000	>2000	65.9	<2	0.08	0.004
1907518	Rock	0.48	0.6	4818.2	>10000	5322	>100	3.7	1.5	51	0.27	18.6	617.8	<0.1	65	230.1	>2000	1.4	<2	0.03	0.003
1907519	Rock	1.60	2.4	>10000	>10000	>10000	>100	3.5	4.5	88	0.44	647.9	2310.2	<0.1	35	>2000	>2000	1.2	<2	0.05	0.005
114151	Rock	3.70	0.7	66.7	1496.8	4828	1.7	32.2	15.8	2856	5.04	44.2	6.8	0.8	364	54.0	29.5	<0.1	51	8.80	0.068
114152	Rock	3.18	0.8	51.0	290.3	294	0.6	28.7	15.2	966	3.49	48.4	2.0	7.4	62	4.2	18.3	0.2	17	2.53	0.023
114153	Rock	4.52	2.0	25.0	603.1	2155	0.5	73.0	21.9	7302	8.01	76.8	2.1	1.8	235	44.4	35.5	<0.1	61	19.18	0.115
114154	Rock	1.89	0.6	54.2	77.9	319	0.2	18.8	39.4	1715	9.05	6.7	2.0	1.6	317	1.9	5.4	<0.1	245	6.89	0.183
114155	Rock	2.95	0.1	8.7	80.4	36	0.1	16.0	4.7	922	3.46	1.2	3.7	0.8	1259	0.4	3.8	<0.1	39	19.83	0.037



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Part: 2 of 3

CERTIFICATE OF ANALYSIS

WHI17000352.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AR402	AR402	AR402
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	Cu	Pb
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	0.001	0.01	
113351	Rock	<1	5	<0.01	33	<0.001	1	0.01	0.006	<0.01	<0.1	19.68	0.2	<0.1	1.13	<1	10.6	<0.2	80	3.400	0.06
113352	Rock	7	45	0.13	93	0.003	1	0.50	0.079	0.09	<0.1	0.09	13.3	<0.1	<0.05	1	1.0	<0.2			
113353	Rock	5	23	0.66	40	0.001	<1	0.21	0.036	0.06	<0.1	0.07	6.5	<0.1	0.23	<1	0.6	<0.2			
113354	Rock	5	2	2.53	44	0.001	1	0.24	0.015	<0.01	<0.1	2.99	3.7	<0.1	<0.05	<1	<0.5	<0.2			
1907516	Rock	<1	2	0.05	15	<0.001	1	0.09	0.001	0.01	<0.1	>50	0.5	0.2	2.60	2	11.1	1.1	297	0.814	>10
1907517	Rock	<1	2	0.01	37	<0.001	<1	0.05	0.001	0.01	<0.1	>50	<0.1	1.1	6.18	1	>100	0.3	988	7.971	>10
1907518	Rock	<1	3	<0.01	20	<0.001	4	0.02	<0.001	<0.01	<0.1	>50	<0.1	0.4	5.85	<1	13.8	1.2	442	0.478	>10
1907519	Rock	<1	<1	0.02	22	<0.001	<1	0.06	<0.001	<0.01	<0.1	>50	0.2	0.4	2.85	1	8.4	<0.2	742	2.915	>10
114151	Rock	6	33	2.88	370	<0.001	3	0.57	0.029	0.10	<0.1	2.47	8.4	0.2	0.16	2	<0.5	<0.2			
114152	Rock	18	13	0.54	86	<0.001	4	0.57	0.006	0.10	<0.1	0.72	5.8	<0.1	<0.05	1	<0.5	<0.2			
114153	Rock	7	41	3.05	73	0.002	6	0.31	0.006	0.05	<0.1	1.67	8.3	0.3	0.06	<1	0.7	<0.2			
114154	Rock	17	2	2.46	61	0.006	4	2.02	0.023	<0.01	<0.1	0.18	11.9	<0.1	0.29	11	0.8	<0.2			
114155	Rock	7	35	8.24	330	0.002	<1	0.18	0.026	<0.01	<0.1	0.19	2.8	<0.1	<0.05	<1	<0.5	<0.2			



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CERTIFICATE OF ANALYSIS

WHI17000352.1

Method	Analyte	AR402	FA430
		Zn	Au
Unit		%	ppm
MDL		0.01	0.005
113351	Rock	0.93	
113352	Rock		
113353	Rock		
113354	Rock		
1907516	Rock	>10	
1907517	Rock	3.71	>10
1907518	Rock	0.51	
1907519	Rock	>10	2.355
114151	Rock		
114152	Rock		
114153	Rock		
114154	Rock		
114155	Rock		



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QUALITY CONTROL REPORT

WHI17000352.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
113351	Rock	2.38	0.4	>10000	601.7	9505	82.0	6.3	2.1	46	0.55	824.1	280.3	<0.1	7	123.3	>2000	12.2	<2	0.05	<0.001
REP 113351	QC																				
113353	Rock	1.63	0.3	84.7	18.6	70	0.2	91.4	28.9	1606	4.03	138.2	2.9	0.4	567	0.7	50.0	<0.1	17	21.86	0.103
REP 113353	QC		0.2	85.0	18.7	69	0.2	93.5	29.2	1643	4.05	136.9	3.1	0.4	583	0.7	51.0	<0.1	17	22.18	0.104
1907519	Rock	1.60	2.4	>10000	>10000	>10000	>100	3.5	4.5	88	0.44	647.9	2310.2	<0.1	35	>2000	>2000	1.2	<2	0.05	0.005
REP 1907519	QC																				
114151	Rock	3.70	0.7	66.7	1496.8	4828	1.7	32.2	15.8	2856	5.04	44.2	6.8	0.8	364	54.0	29.5	<0.1	51	8.80	0.068
REP 114151	QC		0.8	64.1	1487.0	4889	1.6	31.4	15.8	2878	5.02	45.0	5.7	0.8	349	54.9	31.2	<0.1	50	8.87	0.071
Reference Materials																					
STD DS11	Standard		14.4	149.4	135.0	353	1.8	81.8	13.7	1073	3.12	42.1	69.3	8.0	68	2.2	7.9	11.7	51	1.07	0.071
STD DS11	Standard		14.9	149.2	137.6	342	1.7	81.2	14.5	1048	3.12	43.4	84.0	7.7	64	2.3	8.0	11.4	50	1.05	0.069
STD OREAS132A	Standard																				
STD OREAS134B	Standard																				
STD OXC129	Standard		1.4	30.4	6.4	43	<0.1	82.9	20.9	434	3.08	0.5	207.1	1.8	195	<0.1	2.2	<0.1	54	0.73	0.104
STD OXC129	Standard		1.4	28.0	6.2	42	<0.1	82.4	21.3	417	3.04	0.7	192.4	1.8	185	<0.1	<0.1	<0.1	53	0.68	0.094
STD OXC145	Standard																				
STD OXH122	Standard																				
STD OXN117	Standard																				
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS132A Expected																					
STD OREAS134B Expected																					
STD OXN117 Expected																					
STD OXC145 Expected																					
STD OXH122 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				



QUALITY CONTROL REPORT

WHI17000352.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AR402	AR402	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	0.01	2	
Pulp Duplicates																					
113351	Rock	<1	5	<0.01	33	<0.001	1	0.01	0.006	<0.01	<0.1	19.68	0.2	<0.1	1.13	<1	10.6	<0.2	0.06	0.93	80
REP 113351	QC																		0.06	0.93	81
113353	Rock	5	23	0.66	40	0.001	<1	0.21	0.036	0.06	<0.1	0.07	6.5	<0.1	0.23	<1	0.6	<0.2			
REP 113353	QC	5	23	0.67	41	0.001	<1	0.22	0.036	0.06	<0.1	0.07	6.8	<0.1	0.24	<1	0.8	<0.2			
1907519	Rock	<1	<1	0.02	22	<0.001	<1	0.06	<0.001	<0.01	<0.1	>50	0.2	0.4	2.85	1	8.4	<0.2	>10	>10	742
REP 1907519	QC																				
114151	Rock	6	33	2.88	370	<0.001	3	0.57	0.029	0.10	<0.1	2.47	8.4	0.2	0.16	2	<0.5	<0.2			
REP 114151	QC	6	33	2.87	374	<0.001	3	0.56	0.029	0.10	<0.1	2.45	8.4	0.2	0.16	2	<0.5	<0.2			
Reference Materials																					
STD DS11	Standard	20	61	0.85	369	0.101	7	1.17	0.070	0.40	3.1	0.25	3.4	4.8	0.28	5	1.4	4.9			
STD DS11	Standard	19	61	0.85	370	0.095	9	1.18	0.072	0.40	3.1	0.24	3.1	4.8	0.28	5	2.1	4.8			
STD OREAS132A	Standard																		3.77	5.06	56
STD OREAS134B	Standard																		>10	>10	199
STD OXC129	Standard	14	55	1.62	53	0.428	<1	1.60	0.600	0.36	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2			
STD OXC129	Standard	13	54	1.57	52	0.407	2	1.59	0.583	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2			
STD OXC145	Standard																				
STD OXH122	Standard																				
STD OXN117	Standard																				
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6					
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56			
STD OREAS132A Expected																			3.66	4.96	58
STD OREAS134B Expected																			13.31	17.7	204
STD OXN117 Expected																					
STD OXC145 Expected																					
STD OXH122 Expected																					
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.01	<0.01	<2
BLK	Blank																				



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QUALITY CONTROL REPORT

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Method	AR402	FA430
Analyte	Cu	Au
Unit	%	ppm
MDL	0.001	0.005
Pulp Duplicates		
113351 Rock	3.400	
REP 113351 QC	3.426	
113353 Rock		
REP 113353 QC		
1907519 Rock	2.915	2.355
REP 1907519 QC		2.576
114151 Rock		
REP 114151 QC		
Reference Materials		
STD DS11 Standard		
STD DS11 Standard		
STD OREAS132A Standard	0.046	
STD OREAS134B Standard	0.131	
STD OXC129 Standard		
STD OXC129 Standard		
STD OXC145 Standard		0.214
STD OXH122 Standard		1.177
STD OXN117 Standard		7.315
STD OXC129 Expected		
STD DS11 Expected		
STD OREAS132A Expected	0.0458	
STD OREAS134B Expected	0.1363	
STD OXN117 Expected		7.679
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
BLK Blank		
BLK Blank	0.002	
BLK Blank		<0.005



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		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	4.9	1.9	39	<0.1	1.1	3.8	547	1.69	1.9	2.4	2.4	20	<0.1	<0.1	<0.1	21	0.53	0.037
ROCK-WHI	Prep Blank		0.8	3.9	1.8	34	<0.1	1.3	3.9	510	1.74	1.3	1.8	2.4	21	<0.1	<0.1	<0.1	23	0.58	0.038



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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AR402	AR402	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm
Prep Wash		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01	2
ROCK-WHI	Prep Blank	6	3	0.47	66	0.079	3	0.95	0.114	0.11	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2			
ROCK-WHI	Prep Blank	6	4	0.44	63	0.083	1	0.93	0.106	0.09	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2			



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Client: **Metallic Minerals Corp.**
#904 - 409 Granville Street
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Project: Keno Silver
Report Date: August 24, 2017

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Part: 3 of 3

QUALITY CONTROL REPORT

WHI17000352.1

		AR402	FA430
		Cu	Au
		%	ppm
		0.001	0.005
Prep Wash			
ROCK-WHI	Prep Blank		
ROCK-WHI	Prep Blank		