



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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

Client: **Bill Mann**
19 Hayes Cres.
Whitehorse Yukon Y1A 0E1 Canada

Submitted By: Bill Mann
Receiving Lab: Canada-Whitehorse
Received: October 05, 2017
Report Date: December 07, 2017
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CERTIFICATE OF ANALYSIS

WHI17001018.1

CLIENT JOB INFORMATION

Project: GLADMAN FA
Shipment ID:
P.O. Number
Number of Samples: 11

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Bill Mann
19 Hayes Cres.
Whitehorse Yukon Y1A 0E1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	11	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ201	11	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
BAT01	11	Batch charge of <20 samples			VAN
SHP01	11	Per sample shipping charges for branch shipments			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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Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	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
64693	Rock	0.92	16.6	89.3	21.0	62	0.4	65.7	15.0	151	3.07	7.1	4.1	7.2	248	0.6	0.5	3.9	151	2.31	0.125
64694	Rock	0.57	2.5	128.0	7.5	16	0.9	8.3	3.5	128	1.91	9.1	2.3	5.2	329	0.2	0.4	10.9	13	2.81	0.079
64695	Rock	0.56	0.8	6.8	3061.0	1311	8.2	7.7	1.0	7147	0.96	19.7	2.9	0.2	100	4.7	5.3	8.5	11	9.88	0.016
64696	Rock	0.94	9.0	43.3	150.9	18	41.9	1.1	0.5	216	0.93	1644.3	35.7	2.2	4	0.2	14.4	57.0	<2	0.03	0.009
64697	Rock	0.50	57.1	242.4	73.3	106	14.3	6.7	2.3	250	6.10	1435.3	3.8	5.7	7	0.6	14.9	23.1	9	0.03	0.029
64698	Rock	0.55	91.2	133.5	592.2	300	7.4	3.4	1.9	302	5.43	1148.0	21.0	4.6	28	4.6	24.2	20.5	6	0.04	0.039
64699	Rock	0.70	20.2	79.0	35.1	195	0.5	58.6	11.4	207	2.99	26.9	<0.5	7.4	315	2.5	1.0	1.0	123	2.91	0.099
64700	Rock	0.69	0.8	104.9	38.1	14	<0.1	3.1	3.6	40	4.96	129.5	1.0	1.1	2	<0.1	1.6	0.2	16	<0.01	0.084
65951	Rock	0.19	1.5	1228.7	1871.5	699	3.6	35.6	16.7	1229	5.45	1129.3	1.6	3.6	8	5.2	3.5	3.0	62	0.07	0.072
65952	Rock	0.42	1.8	75.9	34.6	146	2.3	18.0	5.8	541	2.07	151.3	2.6	11.4	13	1.4	1.0	22.9	9	0.12	0.016
65953	Rock	0.75	0.4	105.6	149.8	206	1.6	7.0	5.0	322	1.19	194.0	0.8	18.1	5	1.3	5.3	0.2	7	0.10	0.045



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		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	
64693	Rock	10	104	1.02	83	0.152	1	4.21	0.436	0.30	0.3	<0.01	7.3	0.5	0.92	12	12.5	0.2
64694	Rock	11	12	0.15	20	0.108	1	3.41	0.290	0.03	0.3	<0.01	1.8	<0.1	0.44	7	65.8	2.1
64695	Rock	3	3	0.06	56	<0.001	1	0.25	<0.001	0.03	0.4	0.02	1.1	<0.1	<0.05	<1	13.2	0.6
64696	Rock	4	3	<0.01	53	<0.001	<1	0.11	0.002	0.08	0.5	0.13	0.4	1.5	0.06	<1	1.1	0.9
64697	Rock	7	5	<0.01	84	0.001	<1	0.25	0.004	0.18	2.4	0.39	1.5	4.5	0.10	<1	3.0	0.2
64698	Rock	6	5	0.01	53	0.001	<1	0.25	0.005	0.14	0.8	0.04	1.0	0.5	0.05	<1	1.1	0.6
64699	Rock	12	74	0.79	116	0.178	2	5.52	0.490	0.25	0.4	<0.01	6.8	0.4	0.43	15	21.5	<0.2
64700	Rock	2	14	0.01	328	0.002	<1	0.29	<0.001	0.08	<0.1	<0.01	2.7	<0.1	<0.05	<1	0.8	<0.2
65951	Rock	12	126	0.38	200	0.070	<1	1.51	0.002	0.06	<0.1	0.01	4.5	0.2	<0.05	6	8.2	<0.2
65952	Rock	19	10	0.10	204	0.009	<1	0.92	0.017	0.20	0.9	<0.01	1.3	0.3	0.06	3	2.6	<0.2
65953	Rock	44	7	0.19	168	0.004	2	1.08	0.004	0.47	<0.1	<0.01	1.7	0.3	<0.05	2	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI17001018.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
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	
Reference Materials																					
STD DS11	Standard	14.1	160.6	130.0	354	1.7	81.9	16.3	976	3.20	45.1	71.5	7.2	69	2.7	8.9	12.6	49	1.07	0.074	
STD OXC129	Standard	1.4	29.7	6.4	50	<0.1	88.4	23.8	431	3.07	0.7	192.7	1.8	201	<0.1	<0.1	<0.1	51	0.72	0.109	
STD OXC129 Expected		1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	
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	
Prep Wash																					
ROCK-WHI	Prep Blank	0.5	4.2	3.5	37	<0.1	1.1	4.2	576	1.71	12.6	5.0	2.4	25	<0.1	0.3	1.0	21	0.63	0.047	
ROCK-WHI	Prep Blank	0.9	6.3	1.3	38	<0.1	2.0	4.7	653	1.94	4.1	0.9	2.5	26	<0.1	0.1	0.3	25	0.73	0.045	



QUALITY CONTROL REPORT

WHI17001018.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		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	
Reference Materials																		
STD DS11	Standard	19	67	0.85	349	0.099	7	1.15	0.071	0.40	2.8	0.25	3.6	4.8	0.28	5	2.5	4.7
STD OXC129	Standard	13	60	1.56	52	0.433	<1	1.60	0.574	0.35	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
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
Prep Wash																		
ROCK-WHI	Prep Blank	6	3	0.48	49	0.084	1	0.85	0.058	0.07	0.1	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	6	3	0.56	61	0.100	3	1.05	0.087	0.09	<0.1	<0.01	3.5	<0.1	0.09	4	<0.5	<0.2