



**BUREAU
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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:

AdVantage GeoConsulting

Box 382

New Denver British Columbia V0G 1S0 Canada

Submitted By: Van Krichbaum

Receiving Lab: Canada-Vancouver

Received: October 22, 2018

Report Date: November 28, 2018

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CERTIFICATE OF ANALYSIS

VAN18002950.1

CLIENT JOB INFORMATION

Project: Van Gogh East
Shipment ID: 1
P.O. Number: YMEP 18-022
Number of Samples: 21

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	21	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ202	21	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days

ADDITIONAL COMMENTS

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: AdVantage GeoConsulting
Box 382
New Denver British Columbia V0G 1S0
Canada

CC:


KERRY JAY
Geochem Project Specialist

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 Analyte Unit MDL	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	1	0.01	0.001
219-A-2018	Rock	0.28	0.3	2.9	3.4	9	0.2	7.5	0.9	570	0.50	1.4	<0.5	0.3	536	0.1	0.2	<0.1	4	22.17	0.022
219-B-2018	Rock	0.10	4.2	10.8	6.9	43	<0.1	6.5	4.3	313	2.76	8.7	<0.5	2.8	18	<0.1	0.5	<0.1	44	0.25	0.041
219-C-2018	Rock	0.14	2.7	11.3	6.2	34	<0.1	5.3	2.0	239	2.16	7.8	1.0	2.6	9	<0.1	0.4	<0.1	35	0.16	0.033
219-D-2018	Rock	0.13	0.2	14.3	7.2	36	0.2	16.2	1.9	728	1.37	2.2	0.7	2.7	60	0.4	0.2	0.1	16	1.62	0.049
219-E-2018	Rock	0.09	0.4	8.0	2.4	19	<0.1	10.3	2.0	175	0.80	1.9	<0.5	0.6	3	<0.1	0.2	<0.1	8	0.08	0.013
219-F-2018	Rock	0.09	0.3	9.2	12.0	37	<0.1	13.8	4.6	282	2.34	2.3	1.8	11.0	6	<0.1	0.2	0.1	14	0.09	0.031
219-G-2018	Rock	0.09	0.1	10.2	4.9	38	0.1	6.0	2.7	487	1.42	0.6	<0.5	1.6	227	0.2	0.2	<0.1	26	15.11	0.045
219-H-2018	Rock	0.04	0.6	21.8	3.2	63	<0.1	23.6	6.2	300	2.60	4.0	3.0	1.4	6	0.1	0.2	<0.1	17	0.26	0.059
219-I-2018	Rock	0.07	0.8	14.5	3.2	28	<0.1	20.3	2.9	1780	1.17	6.2	1.9	1.1	10	0.4	0.4	<0.1	9	0.24	0.034
219-J-2018	Rock	0.04	0.2	21.8	8.4	41	0.2	17.2	2.3	649	1.43	2.5	1.4	2.7	10	0.3	0.2	0.1	15	0.17	0.051
535-A-2018	Rock	0.08	4.0	12.7	10.1	10	<0.1	2.8	0.3	77	1.04	63.8	<0.5	0.4	21	<0.1	5.0	<0.1	5	0.02	0.015
535-B-2018	Rock	0.20	1.5	5.4	3.4	5	<0.1	0.9	0.2	17	0.23	10.2	<0.5	0.4	7	<0.1	1.7	<0.1	1	<0.01	0.004
535-C-2018	Rock	0.10	0.4	6.7	5.4	5	<0.1	1.2	0.2	46	0.45	5.8	<0.5	0.2	9	<0.1	1.2	<0.1	<1	<0.01	0.002
535-D-2018	Rock	0.06	0.8	3.5	8.0	4	<0.1	1.1	0.2	30	0.33	3.9	<0.5	0.7	3	<0.1	1.3	<0.1	2	<0.01	0.002
554-A-2018	Rock	0.09	0.3	9.7	2.8	25	<0.1	7.1	2.8	423	1.63	4.1	<0.5	1.9	8	<0.1	0.4	<0.1	5	0.07	0.034
554-B-2018	Rock	0.10	<0.1	13.6	4.0	32	<0.1	1.3	0.7	748	0.24	2.2	5.0	<0.1	247	1.5	0.1	<0.1	8	31.70	0.130
NWG-A-2018	Rock	0.11	0.6	9.1	1.8	3	<0.1	1.7	0.5	54	0.63	3.4	<0.5	<0.1	3	<0.1	0.4	<0.1	<1	0.16	0.003
NWG-B-2018	Rock	0.17	0.8	66.2	4.0	23	<0.1	8.5	3.2	60	1.44	13.3	<0.5	<0.1	6	<0.1	1.6	<0.1	1	0.03	0.014
NWG-C-2018	Rock	0.12	1.1	8.3	11.0	5	<0.1	1.3	0.2	44	0.48	6.7	<0.5	0.6	6	<0.1	1.5	0.1	3	0.04	0.003
NWG-D-2018	Rock	0.09	0.4	10.5	1.0	6	<0.1	2.3	0.6	63	0.58	1.6	<0.5	0.3	2	<0.1	0.2	<0.1	1	<0.01	0.002
NWG-E-2018	Rock	0.08	0.5	32.4	1.2	11	<0.1	8.3	0.7	83	0.98	6.4	<0.5	<0.1	7	<0.1	0.7	<0.1	4	0.03	0.010



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CERTIFICATE OF ANALYSIS

VAN18002950.1

Method Analyte Unit MDL		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
219-A-2018	Rock	4	1	0.68	351	<0.001	<1	0.04	0.006	<0.01	<0.1	0.19	2.2	<0.1	0.08	<1	<0.5	<0.2
219-B-2018	Rock	9	15	0.55	643	0.115	1	1.16	0.107	0.12	0.2	0.11	5.1	0.3	0.24	4	<0.5	<0.2
219-C-2018	Rock	6	12	0.43	314	0.100	<1	0.90	0.114	0.08	0.1	0.08	4.2	0.1	0.06	3	<0.5	<0.2
219-D-2018	Rock	12	8	0.40	253	0.003	3	0.71	0.023	0.21	<0.1	0.02	2.6	<0.1	<0.05	2	<0.5	<0.2
219-E-2018	Rock	2	12	0.06	61	0.008	2	0.23	0.004	0.04	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
219-F-2018	Rock	30	20	0.37	113	0.005	6	1.10	0.031	0.28	<0.1	0.06	1.7	<0.1	<0.05	4	<0.5	<0.2
219-G-2018	Rock	7	8	0.68	248	0.003	<1	0.77	0.031	0.09	<0.1	0.04	4.0	<0.1	<0.05	3	<0.5	<0.2
219-H-2018	Rock	12	26	1.03	138	0.003	5	1.25	0.019	0.19	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
219-I-2018	Rock	10	9	0.08	423	0.002	3	0.24	0.008	0.11	<0.1	0.05	1.5	<0.1	<0.05	<1	<0.5	<0.2
219-J-2018	Rock	12	8	0.40	231	0.004	1	0.70	0.021	0.19	<0.1	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
535-A-2018	Rock	1	5	<0.01	2301	<0.001	1	0.07	0.002	0.04	0.5	1.34	0.3	0.4	0.08	<1	0.6	<0.2
535-B-2018	Rock	2	1	<0.01	1006	<0.001	<1	0.04	0.001	0.02	0.3	0.44	0.2	0.4	<0.05	<1	<0.5	<0.2
535-C-2018	Rock	<1	4	<0.01	1151	<0.001	<1	0.02	<0.001	0.01	<0.1	0.12	0.1	0.2	<0.05	<1	<0.5	<0.2
535-D-2018	Rock	4	3	<0.01	366	<0.001	<1	0.06	0.001	0.04	0.3	0.43	0.2	0.3	<0.05	<1	<0.5	<0.2
554-A-2018	Rock	3	8	0.09	195	0.001	2	0.42	0.003	0.12	<0.1	0.10	0.9	0.1	<0.05	1	<0.5	<0.2
554-B-2018	Rock	3	3	0.19	49	<0.001	<1	0.10	0.002	<0.01	<0.1	0.06	1.7	<0.1	<0.05	<1	<0.5	<0.2
NWG-A-2018	Rock	<1	4	<0.01	85	<0.001	<1	0.03	<0.001	0.02	<0.1	0.06	0.1	<0.1	<0.05	<1	<0.5	<0.2
NWG-B-2018	Rock	<1	3	<0.01	144	<0.001	<1	0.08	<0.001	0.02	<0.1	0.11	0.4	<0.1	0.06	<1	<0.5	<0.2
NWG-C-2018	Rock	3	5	<0.01	891	0.001	3	0.10	0.002	0.06	0.3	0.64	0.4	0.8	<0.05	<1	<0.5	<0.2
NWG-D-2018	Rock	1	5	<0.01	355	<0.001	2	0.11	0.001	0.07	<0.1	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
NWG-E-2018	Rock	<1	10	<0.01	45	<0.001	<1	0.08	0.001	<0.01	<0.1	0.03	0.3	<0.1	<0.05	<1	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN18002950.1

Method Analyte Unit MDL		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	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	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	1	0.01	0.001
Pulp Duplicates																						
219-A-2018	Rock	0.28	0.3	2.9	3.4	9	0.2	7.5	0.9	570	0.50	1.4	<0.5	0.3	536	0.1	0.2	<0.1	4	22.17	0.022	
REP 219-A-2018	QC		0.2	2.9	3.6	9	0.2	6.8	0.8	548	0.49	1.2	<0.5	0.3	546	0.1	0.2	<0.1	4	21.84	0.022	
Reference Materials																						
STD DS11	Standard		14.1	158.2	138.9	359	1.8	81.4	14.1	996	3.19	43.5	74.9	7.5	62	2.3	7.6	11.0	50	1.06	0.075	
STD OXC129	Standard		1.2	27.1	6.3	37	<0.1	76.2	19.7	404	3.11	0.6	183.3	1.8	171	<0.1	<0.1	<0.1	54	0.65	0.095	
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	<1	<0.01	<0.001	
Prep Wash																						
ROCK-VAN	Prep Blank		1.0	4.6	1.7	31	<0.1	1.3	3.8	496	1.78	1.1	0.6	2.5	25	<0.1	<0.1	<0.1	23	0.61	0.042	
ROCK-VAN	Prep Blank		1.0	3.8	1.8	32	<0.1	1.0	3.7	505	1.87	0.9	<0.5	2.3	25	<0.1	<0.1	<0.1	23	0.59	0.041	



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	Method Analyte Unit MDL	AQ202																
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
Pulp Duplicates																		
219-A-2018	Rock	4	1	0.68	351	<0.001	<1	0.04	0.006	<0.01	<0.1	0.19	2.2	<0.1	0.08	<1	<0.5	<0.2
REP 219-A-2018	QC	4	1	0.66	338	<0.001	<1	0.04	0.006	0.01	<0.1	0.17	2.2	<0.1	0.08	<1	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	61	0.85	388	0.092	6	1.16	0.076	0.40	2.9	0.28	3.2	5.0	0.29	5	2.2	4.6
STD OXC129	Standard	12	49	1.56	48	0.370	2	1.61	0.610	0.39	<0.1	<0.01	1.3	<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-VAN	Prep Blank	5	4	0.45	66	0.074	<1	0.89	0.117	0.10	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
ROCK-VAN	Prep Blank	6	3	0.45	70	0.078	1	0.96	0.134	0.12	0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2