



**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:** **Fireweed Zinc Ltd.**  
Suite 1020, 800 Pender Street  
Vancouver British Columbia V5C 2V6 Canada

Submitted By: Confirmation & Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: June 27, 2019  
Report Date: August 03, 2019  
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## CERTIFICATE OF ANALYSIS

WHI19000112.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ19-BV-004  
P.O. Number  
Number of Samples: 27

### SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
RTRN-RJT Return 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.

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	27	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	0	Sort, label and box pulps			WHI
CRUBW	27	Extra clean rock wash between samples in crusher			WHI
PULSW	27	Extra Wash with Silica between each sample			WHI
AQ270	27	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	27	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	27	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	27	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	27	Inorganic Carbon	0.2	Completed	VAN
TC009	27	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	27	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.

Invoice To: Fireweed Zinc Ltd.  
Suite 1020, 800 Pender Street  
Vancouver British Columbia V5C 2V6  
Canada

CC:



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

WHI19000112.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3202004	Rock	2.13	5.1	74.9	32.6	95	0.7	30.1	10.8	740	3.06	21	2.7	6.1	154	<0.5	4.0	<0.5	26	6.54	0.369
3202005	Rock	2.16	13.6	64.1	67.8	80	1.0	51.6	17.6	766	4.09	37	4.0	5.0	155	<0.5	9.7	<0.5	33	6.93	0.594
3202006	Rock	1.90	6.2	67.5	50.6	93	0.7	47.3	15.8	738	3.77	36	3.4	6.1	151	<0.5	5.4	<0.5	27	6.24	0.498
3202007	Rock	2.50	6.1	66.0	32.1	95	0.6	39.0	12.1	660	3.25	24	4.7	5.8	163	<0.5	4.7	<0.5	37	7.56	1.071
3202009	Rock	2.88	9.9	96.9	30.8	310	1.1	50.9	10.5	572	3.32	23	4.4	6.7	214	2.4	4.8	<0.5	49	3.96	0.710
3202010	Rock	3.49	7.1	143.9	58.5	486	1.5	54.9	11.2	555	3.73	16	3.5	7.1	231	4.1	3.9	<0.5	55	4.40	0.606
3202011	Rock	5.18	5.4	143.8	56.7	462	1.4	48.8	15.6	702	2.94	13	4.3	7.8	208	5.1	3.2	<0.5	49	3.86	0.608
3202014	Rock	3.32	8.4	99.1	35.6	399	1.3	44.7	10.4	316	2.55	17	4.8	10.0	83	4.0	3.2	<0.5	49	1.79	0.444
3202015	Rock	2.26	3.7	87.8	25.3	246	1.2	40.9	7.5	479	3.23	17	4.2	9.8	170	2.2	2.7	<0.5	42	4.24	0.863
3202016	Rock	1.75	6.1	171.9	52.9	577	2.0	66.6	14.8	568	3.69	17	4.8	8.8	89	5.7	4.0	<0.5	60	1.95	0.401
3202023	Rock	2.66	10.2	103.8	23.0	335	1.1	44.2	8.4	426	3.32	16	4.1	6.1	214	3.8	5.1	<0.5	55	5.52	0.415
3202024	Rock	3.14	11.2	91.7	23.8	270	1.2	45.8	11.9	423	3.50	15	4.1	6.4	210	2.4	5.8	<0.5	37	5.45	0.334
3202036	Rock	2.03	1.5	68.0	9.8	221	<0.5	140.9	40.6	3287	8.95	91	1.3	2.4	379	6.9	2.5	<0.5	65	13.65	0.187
3202037	Rock	2.61	2.1	39.1	9.5	309	<0.5	136.2	29.2	2464	8.21	71	1.4	2.0	281	9.2	4.3	<0.5	63	12.59	0.136
3202038	Rock	3.56	0.9	71.2	9.9	248	<0.5	131.8	41.2	3785	8.55	63	1.7	2.0	335	6.0	3.4	<0.5	45	12.61	0.193
3202039	Rock	2.68	1.1	95.3	18.0	220	0.6	207.6	74.9	2897	6.93	87	1.0	2.9	380	3.5	9.0	<0.5	46	9.81	0.264
3202040	Rock	0.83	1.3	52.7	3.0	39	<0.5	3.9	9.8	432	2.97	<5	0.9	2.4	88	<0.5	<0.5	<0.5	101	1.05	0.062
3202045	Rock	2.96	3.0	39.0	17.6	47	<0.5	31.1	4.4	63	2.79	22	2.8	7.4	74	<0.5	2.5	<0.5	48	0.09	0.112
3202046	Rock	3.45	2.9	40.7	11.7	41	<0.5	31.4	4.1	45	1.70	20	2.6	7.3	87	0.5	2.0	<0.5	37	0.08	0.107
3202047	Rock	2.97	3.0	52.3	23.1	55	<0.5	33.2	5.0	55	2.45	23	2.8	7.9	63	0.5	2.4	<0.5	38	0.07	0.104
3202048	Rock	3.12	3.2	63.1	30.2	207	<0.5	62.3	10.6	23	1.78	17	2.7	7.3	90	18.6	6.1	<0.5	22	0.14	0.130
3202049	Rock	1.86	3.4	83.6	40.1	262	0.6	60.1	11.2	52	2.58	19	2.3	7.1	60	13.9	6.1	<0.5	22	0.12	0.088
3202050	Rock	2.22	3.5	82.5	50.5	259	0.8	65.1	12.5	415	3.28	17	1.7	7.2	40	5.5	6.2	<0.5	18	0.16	0.087
3202054	Rock	3.46	4.6	103.0	38.4	71	<0.5	48.9	15.8	1166	4.98	71	1.3	7.0	8	1.0	3.3	<0.5	19	0.04	0.063
3202055	Rock	4.54	6.3	198.2	254.6	116	0.8	57.7	15.6	1775	6.01	218	1.6	7.6	12	2.7	3.5	<0.5	17	0.06	0.069
3202056	Rock	3.81	6.8	261.6	79.9	104	0.9	49.0	16.4	2071	7.43	164	1.6	5.4	13	2.0	4.8	<0.5	20	0.07	0.059
3202057	Rock	4.24	29.1	149.5	117.4	127	2.5	67.1	20.9	870	3.02	165	3.6	3.0	63	2.0	9.1	<0.5	66	0.08	0.064



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# CERTIFICATE OF ANALYSIS

WHI19000112.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3202004	Rock	18.4	6.5	2.61	370	0.004	0.42	<0.01	0.21	<0.5	0.12	3.5	<0.5	1.03	<5	2	48.08	10.14	4.79	9.54	4.89
3202005	Rock	16.4	8.9	2.63	425	0.005	0.50	<0.01	0.23	<0.5	0.25	5.0	<0.5	1.97	<5	3	43.64	10.44	6.59	10.31	5.01
3202006	Rock	18.1	8.8	2.32	408	0.005	0.49	<0.01	0.23	<0.5	0.17	4.0	<0.5	1.94	<5	3	47.92	10.51	5.81	8.88	4.33
3202007	Rock	18.7	12.5	2.22	474	0.008	0.57	<0.01	0.26	<0.5	0.21	4.1	<0.5	1.91	<5	<2	49.45	9.19	5.10	10.47	4.10
3202009	Rock	18.6	14.7	0.51	566	0.006	0.67	<0.01	0.21	0.7	0.10	3.1	<0.5	0.53	<5	6	63.98	10.20	5.26	5.70	1.39
3202010	Rock	14.8	13.2	0.81	419	0.005	0.63	<0.01	0.23	0.5	0.20	2.7	<0.5	0.69	<5	10	60.29	10.11	5.89	6.26	1.84
3202011	Rock	16.0	11.4	1.21	475	0.005	0.68	<0.01	0.26	<0.5	0.14	3.1	<0.5	0.97	<5	11	58.90	11.95	4.81	5.55	2.60
3202014	Rock	20.7	8.2	0.10	503	0.004	0.57	<0.01	0.27	3.7	0.19	2.7	<0.5	0.20	<5	6	65.82	14.42	4.27	2.56	0.85
3202015	Rock	28.2	11.4	0.41	495	0.006	0.64	<0.01	0.30	<0.5	0.09	4.0	<0.5	0.37	<5	6	59.67	12.97	5.26	6.18	1.28
3202016	Rock	16.8	7.8	0.48	487	0.004	0.55	<0.01	0.26	<0.5	0.29	3.2	<0.5	0.51	<5	12	62.03	13.72	5.92	2.76	1.46
3202023	Rock	15.2	9.1	2.11	501	0.005	0.47	<0.01	0.25	0.6	0.12	3.0	<0.5	1.00	<5	5	53.86	9.34	5.26	7.90	4.07
3202024	Rock	12.3	7.9	2.06	396	0.004	0.47	<0.01	0.22	<0.5	0.15	2.9	<0.5	1.33	<5	4	52.52	9.82	5.77	8.23	4.27
3202036	Rock	23.5	70.5	3.84	346	0.004	0.46	<0.01	0.15	<0.5	0.07	10.9	<0.5	0.26	<5	<2	26.83	7.75	11.86	16.95	5.94
3202037	Rock	15.0	58.5	3.88	241	0.003	0.49	<0.01	0.12	<0.5	0.10	10.5	<0.5	0.27	<5	<2	24.43	7.38	12.35	17.59	6.76
3202038	Rock	14.7	53.6	3.57	321	0.003	0.43	<0.01	0.12	<0.5	<0.05	8.4	<0.5	0.68	<5	<2	25.58	6.81	12.82	17.59	6.29
3202039	Rock	21.7	56.0	2.89	288	0.004	0.43	<0.01	0.17	<0.5	0.06	9.7	<0.5	1.39	<5	<2	31.15	11.20	10.19	13.40	5.06
3202040	Rock	7.1	5.0	0.86	185	0.181	1.90	0.24	0.31	<0.5	0.06	3.5	<0.5	<0.05	<5	<2	61.05	17.03	6.41	6.29	2.95
3202045	Rock	28.8	22.1	0.24	703	0.002	1.07	<0.01	0.19	<0.5	<0.05	2.9	<0.5	0.66	<5	2	71.88	13.20	4.42	0.14	0.67
3202046	Rock	29.7	18.7	0.15	551	0.002	0.91	<0.01	0.19	<0.5	<0.05	2.4	<0.5	0.45	<5	<2	73.13	13.92	2.92	0.13	0.54
3202047	Rock	28.9	21.0	0.17	270	0.002	0.91	<0.01	0.19	<0.5	<0.05	3.0	<0.5	0.61	<5	<2	73.25	13.59	4.02	0.13	0.59
3202048	Rock	25.2	12.2	0.07	225	0.001	0.80	<0.01	0.18	<0.5	0.10	1.3	<0.5	1.54	<5	<2	72.63	13.74	2.98	0.23	0.44
3202049	Rock	23.7	11.8	0.05	289	0.002	0.66	<0.01	0.20	<0.5	0.10	1.7	<0.5	2.49	<5	3	71.70	13.18	4.14	0.20	0.38
3202050	Rock	23.3	10.7	0.05	278	0.002	0.47	<0.01	0.21	1.4	0.14	2.1	<0.5	2.55	<5	3	70.77	12.51	5.17	0.25	0.38
3202054	Rock	22.3	10.4	0.08	241	0.002	0.54	<0.01	0.20	<0.5	0.07	2.7	<0.5	0.34	<5	<2	69.71	12.78	7.94	0.07	0.40
3202055	Rock	27.8	7.4	0.05	185	0.001	0.42	<0.01	0.19	<0.5	0.16	3.4	<0.5	0.31	<5	<2	67.50	12.09	9.33	0.10	0.33
3202056	Rock	26.5	10.1	0.12	150	0.001	0.34	<0.01	0.17	1.8	0.13	3.6	<0.5	0.60	<5	2	70.80	9.01	10.91	0.11	0.38
3202057	Rock	22.8	11.2	0.02	125	0.002	0.33	<0.01	0.12	1.0	0.18	1.9	<0.5	0.12	<5	7	82.83	5.92	4.70	0.14	0.17



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.07	0.05
3202004	Rock	2.91	0.11	0.77	0.86	<0.01	0.46	<0.01	<0.01	<0.01	15.94	98.59	0.04	5.34	1.04	1.31	0.66	12.35	0.67	1.11
3202005	Rock	3.01	0.11	1.00	1.37	0.01	0.49	<0.01	<0.01	<0.01	16.23	98.34	0.05	5.85	2.09	1.46	1.13	11.95	1.43	1.96
3202006	Rock	3.00	0.11	0.93	1.14	<0.01	0.47	<0.01	<0.01	0.01	14.11	97.34	0.04	4.57	1.95	1.25	0.50	10.31	1.45	1.50
3202007	Rock	2.63	0.10	0.76	2.50	<0.01	0.41	<0.01	<0.01	<0.01	13.47	98.28	0.04	4.55	1.92	1.25	0.60	9.91	1.49	1.28
3202009	Rock	2.79	0.09	0.51	1.67	0.01	0.40	<0.01	<0.01	0.03	6.58	98.75	0.06	1.92	0.47	0.93	0.11	3.25	0.09	1.15
3202010	Rock	2.82	0.09	0.44	1.41	<0.01	0.39	<0.01	<0.01	0.05	8.40	98.14	0.07	2.87	0.65	1.51	0.08	4.67	0.19	1.40
3202011	Rock	3.38	0.11	0.48	1.38	0.01	0.45	0.01	<0.01	0.05	9.20	99.00	0.08	3.08	0.93	1.58	0.10	5.13	0.50	1.28
3202014	Rock	4.19	0.06	0.55	1.04	<0.01	0.55	<0.01	<0.01	0.04	4.91	99.38	0.10	1.24	0.19	0.98	0.02	0.86	<0.05	0.79
3202015	Rock	3.73	0.08	0.50	1.98	<0.01	0.50	0.01	<0.01	0.03	7.28	99.59	0.07	2.53	0.36	1.70	0.02	2.93	<0.05	1.15
3202016	Rock	3.96	0.09	0.54	0.92	<0.01	0.53	0.01	<0.01	0.06	6.65	98.80	0.13	2.05	0.50	1.45	0.02	2.09	0.15	1.04
3202023	Rock	2.68	0.07	0.38	0.94	<0.01	0.33	<0.01	<0.01	0.04	13.96	98.92	0.06	4.84	1.00	2.17	0.04	9.64	0.62	1.17
3202024	Rock	2.85	0.07	0.39	0.81	<0.01	0.34	<0.01	<0.01	0.02	14.44	99.65	0.05	4.79	1.47	4.26	0.09	10.00	<0.05	1.29
3202036	Rock	1.86	0.39	1.79	0.36	0.06	0.26	<0.01	<0.01	0.02	24.68	98.86	0.04	7.30	0.23	1.37	<0.02	21.73	1.05	0.87
3202037	Rock	1.73	0.35	1.63	0.30	0.05	0.22	<0.01	<0.01	0.03	26.00	98.93	0.03	7.45	0.26	0.64	<0.02	24.97	<0.05	1.00
3202038	Rock	1.58	0.50	1.65	0.39	0.05	0.24	<0.01	<0.01	0.02	24.88	98.52	0.03	7.40	0.64	0.87	<0.02	23.92	0.12	1.56
3202039	Rock	2.75	0.38	2.81	0.55	0.07	0.38	<0.01	<0.01	0.02	19.40	97.54	0.05	5.71	1.28	0.86	<0.02	17.76	0.65	1.89
3202040	Rock	1.58	0.14	0.55	0.13	<0.01	0.06	<0.01	<0.01	<0.01	0.87	100.47	0.03	0.05	<0.02	0.04	<0.02	<0.07	<0.05	0.10
3202045	Rock	2.99	0.03	0.74	0.26	0.02	0.31	<0.01	<0.01	<0.01	4.36	99.14	0.06	1.19	0.65	0.99	0.19	<0.07	0.53	0.36
3202046	Rock	3.25	0.02	0.76	0.25	0.02	0.33	<0.01	<0.01	<0.01	4.13	99.54	0.06	1.11	0.44	0.96	0.14	<0.07	0.35	0.26
3202047	Rock	3.18	0.03	0.77	0.26	0.01	0.31	<0.01	<0.01	<0.01	4.02	100.31	0.06	1.06	0.61	0.90	0.15	<0.07	0.51	0.30
3202048	Rock	3.25	0.02	0.75	0.29	0.02	0.30	<0.01	<0.01	0.02	4.55	99.39	0.05	1.18	1.51	0.84	0.32	<0.07	1.44	0.20
3202049	Rock	3.19	0.03	0.75	0.23	0.03	0.31	<0.01	<0.01	0.03	5.04	99.35	0.05	1.20	2.41	0.89	0.29	<0.07	2.33	0.24
3202050	Rock	3.11	0.07	0.74	0.19	0.02	0.29	<0.01	<0.01	0.03	5.33	99.01	0.05	1.33	2.57	0.88	0.30	0.54	2.46	0.32
3202054	Rock	3.15	0.17	0.72	0.15	0.02	0.22	<0.01	<0.01	<0.01	4.67	100.14	0.05	1.12	0.33	0.83	0.21	0.31	0.20	0.39
3202055	Rock	3.00	0.24	0.71	0.15	0.02	0.21	0.01	0.02	0.01	4.82	98.70	0.04	1.07	0.32	0.82	0.12	0.46	0.15	0.51
3202056	Rock	2.20	0.27	0.52	0.12	0.02	0.13	0.02	<0.01	0.01	5.25	99.85	0.04	1.31	0.59	0.82	0.08	1.53	0.32	0.79
3202057	Rock	1.32	0.13	0.33	0.16	0.02	0.08	0.01	<0.01	<0.01	3.52	99.41	0.12	1.45	0.13	1.23	0.19	0.13	<0.05	0.29



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**Project:**

MacMillan Pass

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## QUALITY CONTROL REPORT

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	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3202039	Rock	2.68	1.1	95.3	18.0	220	0.6	207.6	74.9	2897	6.93	87	1.0	2.9	380	3.5	9.0	<0.5	46	9.81	0.264
Pulp Duplicates																					
3202005	Rock	2.16	13.6	64.1	67.8	80	1.0	51.6	17.6	766	4.09	37	4.0	5.0	155	<0.5	9.7	<0.5	33	6.93	0.594
REP 3202005	QC																				
3202009	Rock	2.88	9.9	96.9	30.8	310	1.1	50.9	10.5	572	3.32	23	4.4	6.7	214	2.4	4.8	<0.5	49	3.96	0.710
REP 3202009	QC																				
3202014	Rock	3.32	8.4	99.1	35.6	399	1.3	44.7	10.4	316	2.55	17	4.8	10.0	83	4.0	3.2	<0.5	49	1.79	0.444
REP 3202014	QC																				
3202016	Rock	1.75	6.1	171.9	52.9	577	2.0	66.6	14.8	568	3.69	17	4.8	8.8	89	5.7	4.0	<0.5	60	1.95	0.401
REP 3202016	QC																				
3202024	Rock	3.14	11.2	91.7	23.8	270	1.2	45.8	11.9	423	3.50	15	4.1	6.4	210	2.4	5.8	<0.5	37	5.45	0.334
REP 3202024	QC																				
3202038	Rock	3.56	0.9	71.2	9.9	248	<0.5	131.8	41.2	3785	8.55	63	1.7	2.0	335	6.0	3.4	<0.5	45	12.61	0.193
REP 3202038	QC		1.0	69.8	10.5	262	<0.5	133.9	40.7	3848	8.51	64	1.7	2.0	333	6.1	3.2	<0.5	45	12.66	0.192
3202054	Rock	3.46	4.6	103.0	38.4	71	<0.5	48.9	15.8	1166	4.98	71	1.3	7.0	8	1.0	3.3	<0.5	19	0.04	0.063
REP 3202054	QC																				
3202055	Rock	4.54	6.3	198.2	254.6	116	0.8	57.7	15.6	1775	6.01	218	1.6	7.6	12	2.7	3.5	<0.5	17	0.06	0.069
REP 3202055	QC																				
3202056	Rock	3.81	6.8	261.6	79.9	104	0.9	49.0	16.4	2071	7.43	164	1.6	5.4	13	2.0	4.8	<0.5	20	0.07	0.059
REP 3202056	QC																				
Core Reject Duplicates																					
3202037	Rock	2.61	2.1	39.1	9.5	309	<0.5	136.2	29.2	2464	8.21	71	1.4	2.0	281	9.2	4.3	<0.5	63	12.59	0.136
DUP 3202037	QC		2.0	40.3	9.5	319	<0.5	136.7	29.4	2510	8.15	71	1.6	1.9	279	8.7	4.1	<0.5	62	12.50	0.130
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				



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## QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3202039	Rock	21.7	56.0	2.89	288	0.004	0.43	<0.01	0.17	<0.5	0.06	9.7	<0.5	1.39	<5	<2	31.15	11.20	10.19	13.40	5.06
Pulp Duplicates																					
3202005	Rock	16.4	8.9	2.63	425	0.005	0.50	<0.01	0.23	<0.5	0.25	5.0	<0.5	1.97	<5	3	43.64	10.44	6.59	10.31	5.01
REP 3202005	QC																				
3202009	Rock	18.6	14.7	0.51	566	0.006	0.67	<0.01	0.21	0.7	0.10	3.1	<0.5	0.53	<5	6	63.98	10.20	5.26	5.70	1.39
REP 3202009	QC																64.06	10.22	5.26	5.71	1.41
3202014	Rock	20.7	8.2	0.10	503	0.004	0.57	<0.01	0.27	3.7	0.19	2.7	<0.5	0.20	<5	6	65.82	14.42	4.27	2.56	0.85
REP 3202014	QC																				
3202016	Rock	16.8	7.8	0.48	487	0.004	0.55	<0.01	0.26	<0.5	0.29	3.2	<0.5	0.51	<5	12	62.03	13.72	5.92	2.76	1.46
REP 3202016	QC																62.01	13.73	5.89	2.76	1.47
3202024	Rock	12.3	7.9	2.06	396	0.004	0.47	<0.01	0.22	<0.5	0.15	2.9	<0.5	1.33	<5	4	52.52	9.82	5.77	8.23	4.27
REP 3202024	QC																				
3202038	Rock	14.7	53.6	3.57	321	0.003	0.43	<0.01	0.12	<0.5	<0.05	8.4	<0.5	0.68	<5	<2	25.58	6.81	12.82	17.59	6.29
REP 3202038	QC	14.9	53.3	3.58	319	0.003	0.42	<0.01	0.12	<0.5	0.10	8.4	<0.5	0.68	<5	<2					
3202054	Rock	22.3	10.4	0.08	241	0.002	0.54	<0.01	0.20	<0.5	0.07	2.7	<0.5	0.34	<5	<2	69.71	12.78	7.94	0.07	0.40
REP 3202054	QC																				
3202055	Rock	27.8	7.4	0.05	185	0.001	0.42	<0.01	0.19	<0.5	0.16	3.4	<0.5	0.31	<5	<2	67.50	12.09	9.33	0.10	0.33
REP 3202055	QC																				
3202056	Rock	26.5	10.1	0.12	150	0.001	0.34	<0.01	0.17	1.8	0.13	3.6	<0.5	0.60	<5	2	70.80	9.01	10.91	0.11	0.38
REP 3202056	QC																70.77	9.08	11.03	0.10	0.38
Core Reject Duplicates																					
3202037	Rock	15.0	58.5	3.88	241	0.003	0.49	<0.01	0.12	<0.5	0.10	10.5	<0.5	0.27	<5	<2	24.43	7.38	12.35	17.59	6.76
DUP 3202037	QC	14.8	59.8	3.84	252	0.003	0.44	<0.01	0.12	<0.5	0.07	9.9	<0.5	0.26	<5	<2	24.57	7.41	12.37	17.56	6.80
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.07	0.05	0.05
3202039	Rock	2.75	0.38	2.81	0.55	0.07	0.38	<0.01	<0.01	0.02	19.40	97.54	0.05	5.71	1.28	0.86	<0.02	17.76	0.65	1.89
Pulp Duplicates																				
3202005	Rock	3.01	0.11	1.00	1.37	0.01	0.49	<0.01	<0.01	<0.01	16.23	98.34	0.05	5.85	2.09	1.46	1.13	11.95	1.43	1.96
REP 3202005	QC																1.14			
3202009	Rock	2.79	0.09	0.51	1.67	0.01	0.40	<0.01	<0.01	0.03	6.58	98.75	0.06	1.92	0.47	0.93	0.11	3.25	0.09	1.15
REP 3202009	QC	2.79	0.10	0.53	1.66	<0.01	0.40	<0.01	<0.01	0.03	6.58	98.87	0.07							1.19
3202014	Rock	4.19	0.06	0.55	1.04	<0.01	0.55	<0.01	<0.01	0.04	4.91	99.38	0.10	1.24	0.19	0.98	0.02	0.86	<0.05	0.79
REP 3202014	QC																<0.02			
3202016	Rock	3.96	0.09	0.54	0.92	<0.01	0.53	0.01	<0.01	0.06	6.65	98.80	0.13	2.05	0.50	1.45	0.02	2.09	0.15	1.04
REP 3202016	QC	3.98	0.09	0.54	0.91	0.01	0.53	0.02	<0.01	0.06	6.65	98.77	0.12							
3202024	Rock	2.85	0.07	0.39	0.81	<0.01	0.34	<0.01	<0.01	0.02	14.44	99.65	0.05	4.79	1.47	4.26	0.09	10.00	<0.05	1.29
REP 3202024	QC													4.68	1.50					
3202038	Rock	1.58	0.50	1.65	0.39	0.05	0.24	<0.01	<0.01	0.02	24.88	98.52	0.03	7.40	0.64	0.87	<0.02	23.92	0.12	1.56
REP 3202038	QC																			
3202054	Rock	3.15	0.17	0.72	0.15	0.02	0.22	<0.01	<0.01	<0.01	4.67	100.14	0.05	1.12	0.33	0.83	0.21	0.31	0.20	0.39
REP 3202054	QC																	0.31		
3202055	Rock	3.00	0.24	0.71	0.15	0.02	0.21	0.01	0.02	0.01	4.82	98.70	0.04	1.07	0.32	0.82	0.12	0.46	0.15	0.51
REP 3202055	QC													1.08	0.30					
3202056	Rock	2.20	0.27	0.52	0.12	0.02	0.13	0.02	<0.01	0.01	5.25	99.85	0.04	1.31	0.59	0.82	0.08	1.53	0.32	0.79
REP 3202056	QC	2.23	0.28	0.53	0.13	<0.01	0.13	0.02	<0.01	0.01	5.25	100.05	0.04							
Core Reject Duplicates																				
3202037	Rock	1.73	0.35	1.63	0.30	0.05	0.22	<0.01	<0.01	0.03	26.00	98.93	0.03	7.45	0.26	0.64	<0.02	24.97	<0.05	1.00
DUP 3202037	QC	1.71	0.35	1.63	0.30	0.05	0.23	<0.01	<0.01	0.03	26.11	99.24	0.03	7.40	0.25	0.69	<0.02	24.62	<0.05	0.98
Reference Materials																				
STD COO1	Standard																	2.34		
STD COO1	Standard																	2.28		
STD COO1	Standard																	2.40		
STD COO1	Standard																	2.36		
STD GBM309-15	Standard													0.23	27.43					



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.6	49516.1	860.3	2122	>1000	1587.8	98.0	90	3.65	1673	0.8	2.9	49	13.5	301.6	18.5	<10	0.18	0.011
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.0	10990.0	215.3	713	4.2	30.4	28.7	1133	8.36	11	1.5	11.9	12	1.1	1.3	64.9	32	0.30	0.058
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182	0.0105
STD OREAS927-AR Expected			1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3	0.054
STD RTS-3A Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					
STD GBM309-15 Expected																					





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		AQ270 La ppm 0.5	AQ270 Cr ppm 0.5	AQ270 Mg % 0.01	AQ270 Ba ppm 5	AQ270 Ti % 0.001	AQ270 Al % 0.01	AQ270 Na % 0.01	AQ270 K % 0.01	AQ270 W ppm 0.5	AQ270 Hg ppm 0.05	AQ270 Sc ppm 0.5	AQ270 Ti ppm 0.5	AQ270 S % 0.05	AQ270 Ga ppm 5	AQ270 Se ppm 2	LF725 SiO2 % 0.01	LF725 Al2O3 % 0.01	LF725 Fe2O3 % 0.01	LF725 CaO % 0.01	LF725 MgO % 0.01
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																34.61	7.00	11.46	5.25	3.82
STD OREAS133B(D)	Standard																34.95	7.09	11.52	5.36	3.89
STD OREAS605	Standard	7.4	28.8	0.03	196	0.010	0.72	0.03	0.14	6.7	1.57	1.3	15.0	7.37	6	77					
STD OREAS72B	Standard																51.18	8.87	9.84	3.97	16.09
STD OREAS72B	Standard																51.16	8.91	9.89	3.96	16.13
STD OREAS927-AR	Standard	25.9	40.4	1.94	44	0.080	3.28	<0.01	0.25	4.6	0.13	4.3	<0.5	1.73	9	18					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.91	20.63	6.10	7.94	0.52
STD SY-4(D)	Standard																49.93	20.70	6.13	8.02	0.53
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5					
STD RTS-3A Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					
STD GBM309-15 Expected																					



Bureau Veritas Commodities Canada Ltd.

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## QUALITY CONTROL REPORT

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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.07	0.05	0.05
STD GGC-10	Standard																	4.26		
STD GGC-10	Standard																	4.44		
STD GGC-10	Standard																	4.79		
STD GGC-10	Standard																	4.54		
STD GS311-1	Standard													1.02	2.13					
STD GS311-1	Standard													1.06	2.23					
STD GS311-1	Standard													0.98	2.32					
STD GS910-4	Standard													2.72	8.32					
STD GS910-4	Standard													2.82	8.55					
STD GS910-4	Standard													2.67	8.22					
STD OREAS133B(D)	Standard	3.46	0.16	0.22	0.11	<0.01	0.06	0.05	5.07	11.34	13.03	99.00	<0.01							
STD OREAS133B(D)	Standard	3.52	0.16	0.22	0.11	<0.01	0.07	0.06	5.06	11.41	13.03	99.85	<0.01							
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.31	0.15	0.36	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.48	0.01							
STD OREAS72B	Standard	1.33	0.15	0.35	0.05	0.14	0.03	0.02	<0.01	<0.01	5.12	98.57	0.01							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																			3.41
STD RTS-3A	Standard																			3.47
STD SY-4(D)	Standard	1.67	0.10	0.29	0.14	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.03	<0.01							
STD SY-4(D)	Standard	1.66	0.11	0.29	0.14	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.30	<0.01							
STD SY-4(D) Expected		1.66	0.108	0.287	0.131		0.0345				4.56									
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12									
STD OREAS133B(D) Expected							0.08	0.032	5.06	11.35										
STD OREAS605 Expected																				
STD OREAS927-AR Expected																				
STD RTS-3A Expected																				3.3
STD GGC-10 Expected																		4.79		
STD COO1 Expected																		2.37		
STD GBM309-15 Expected														0.22	28.84					



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD GS311-1 Expected																				
STD GS910-4 Expected																				
BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		0.7	4.6	6.1	198	<0.5	5.4	4.0	511	2.00	<5	<0.5	3.7	21	<0.5	0.7	<0.5	26	0.67
ROCK-WHI	Prep Blank		1.1	1.9	6.7	36	<0.5	0.7	3.6	533	1.94	<5	<0.5	2.8	21	<0.5	1.1	<0.5	25	0.60



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD GS311-1 Expected																					
STD GS910-4 Expected																					
BLK	Blank																				
SI BLK	Blank																98.76	0.32	0.03	0.03	0.01
SI BLK	Blank																99.52	0.31	0.03	0.01	0.02
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	5.5	1.9	0.48	68	0.093	0.90	0.07	0.08	<0.5	0.06	2.9	<0.5	<0.05	<5	<2	70.20	14.01	3.34	2.45	0.94
ROCK-WHI	Prep Blank	6.2	1.7	0.48	60	0.095	0.85	0.07	0.09	<0.5	<0.05	3.1	<0.5	<0.05	<5	<2	70.47	13.93	3.21	2.30	0.86



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## QUALITY CONTROL REPORT

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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.07	0.05	0.05	
STD GS311-1 Expected														1.02	2.35						
STD GS910-4 Expected														2.65	8.27						
BLK	Blank													<0.02	<0.02						
SI BLK	Blank	<0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.18	<0.01								
SI BLK	Blank	<0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.90	<0.01								
BLK	Blank																		<0.07		
BLK	Blank																				
BLK	Blank																				<0.05
BLK	Blank																		<0.02		
BLK	Blank																		<0.02		
BLK	Blank																		<0.07		
BLK	Blank													<0.02	<0.02						
BLK	Blank													<0.02	<0.02						
Prep Wash																					
ROCK-WHI	Prep Blank	1.93	0.10	0.39	0.10	<0.01	0.09	<0.01	<0.01	0.02	1.10	99.21	<0.01	0.09	<0.02	0.02	<0.02	0.27	<0.05	0.10	
ROCK-WHI	Prep Blank	2.02	0.10	0.37	0.09	<0.01	0.08	<0.01	<0.01	<0.01	1.03	99.04	<0.01	0.08	<0.02	0.03	<0.02	0.23	<0.05	0.12	