



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: **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: August 01, 2019
Report Date: September 14, 2019
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI19000295.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-020
P.O. Number
Number of Samples: 31

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	30	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	30	Extra clean rock wash between samples in crusher			WHI
PULSW	30	Extra Wash with Silica between each sample			WHI
AQ270	31	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	31	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	31	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	31	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	31	Inorganic Carbon	0.2	Completed	VAN
TC009	31	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	31	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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Method Analyte Unit MDL		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
3201014	Drill Core	4.03	17.0	45.6	3037.7	199	0.6	19.9	<0.5	26	2.38	31	3.8	3.6	51	<0.5	13.6	<0.5	74	<0.01
3201015	Drill Core	6.12	15.4	32.0	1797.9	173	0.5	30.8	0.7	39	1.68	24	2.5	3.5	24	<0.5	9.9	<0.5	75	0.02
3201016	Drill Core	4.68	11.5	40.7	867.5	183	<0.5	29.3	0.9	45	1.74	33	2.2	4.3	44	0.7	10.1	<0.5	111	0.10
3201017	Drill Core	2.64	12.3	146.5	11206.8	48508	1.9	37.0	8.2	51	2.32	51	1.5	2.3	33	281.6	10.6	<0.5	299	0.04
3201018	Drill Core	3.34	17.2	90.1	6460.4	42630	1.6	66.2	7.5	80	3.09	59	2.4	3.7	55	79.4	9.1	<0.5	686	0.13
3201019	Drill Core	3.39	13.4	67.4	3992.2	25164	1.1	56.0	6.3	59	2.59	51	1.9	3.5	60	90.1	7.1	<0.5	621	0.18
3201020	Rock Pulp	0.04	2.9	347.8	>40000	106630	101.8	24.0	25.4	1289	7.69	147	1.4	5.8	17	332.7	175.2	0.7	14	3.74
3201021	Drill Core	3.45	10.1	113.0	13992.5	30479	1.8	54.7	7.2	49	1.88	63	2.0	2.7	81	199.1	5.8	<0.5	435	0.11
3201022	Drill Core	3.58	2.8	146.4	10492.5	34602	0.7	11.0	2.0	19	0.49	28	1.3	<0.5	71	146.7	3.9	<0.5	73	<0.01
3201023	Drill Core	3.01	7.0	295.4	4005.0	40159	<0.5	28.9	4.2	37	1.05	55	2.0	1.6	76	249.0	7.0	<0.5	241	0.04
3201024	Drill Core	2.21	3.2	40.8	13578.6	55004	0.6	12.6	2.9	57	0.39	12	0.7	0.8	787	112.0	2.8	<0.5	87	0.04
3201025	Drill Core	2.42	3.0	40.7	12354.0	53061	0.6	13.0	3.1	63	0.39	10	0.7	0.7	649	98.9	2.7	<0.5	81	0.04
3201026	Drill Core	5.36	4.0	29.6	5983.4	64428	<0.5	10.5	2.7	40	0.32	15	0.9	0.9	2093	29.8	3.1	<0.5	114	0.06
3201027	Drill Core	5.93	7.0	359.4	9656.2	46485	1.3	44.8	4.7	167	1.16	38	3.1	1.9	486	387.6	9.2	<0.5	245	0.09
3201028	Drill Core	3.16	15.0	73.7	19689.6	98602	5.0	52.8	9.0	286	2.04	43	2.0	3.0	119	35.6	8.0	<0.5	450	0.18
3201029	Drill Core	3.93	15.0	67.7	2162.8	61281	1.4	45.5	4.8	399	1.82	22	1.9	3.2	80	26.6	5.1	<0.5	416	0.19
3201030	Drill Core	3.41	15.8	52.7	192.0	25755	0.7	60.0	6.4	254	2.76	18	2.8	3.4	81	17.3	5.1	<0.5	309	0.23
3201031	Drill Core	3.72	14.2	70.5	236.2	10753	1.2	64.0	6.9	799	3.62	23	2.7	3.3	62	10.7	8.9	<0.5	177	0.28
3201032	Drill Core	3.93	15.5	83.4	318.1	5405	1.5	67.8	7.9	855	4.30	25	2.6	3.2	55	4.8	10.7	<0.5	137	0.26
3201033	Drill Core	5.36	17.1	52.6	109.4	1395	0.9	72.3	6.5	879	3.68	26	2.7	3.5	66	1.7	6.8	<0.5	117	0.28
3201034	Drill Core	5.22	19.7	50.9	79.2	347	0.8	77.5	5.4	80	2.18	25	3.0	3.2	64	1.6	6.2	<0.5	107	0.27
3201035	Drill Core	5.67	15.3	50.6	85.1	522	1.0	68.8	5.4	138	2.56	25	2.9	3.5	64	0.9	6.6	<0.5	95	0.26
3201036	Drill Core	5.47	18.1	83.2	98.2	461	1.2	79.4	6.5	548	4.69	39	3.5	3.5	56	0.8	12.0	<0.5	102	0.27
3201037	Drill Core	4.91	20.2	64.8	67.6	399	1.0	77.8	5.8	173	2.39	24	3.5	3.7	47	0.9	7.8	<0.5	97	0.30
3201038	Drill Core	6.03	13.2	73.1	74.1	282	1.1	65.3	6.8	577	3.68	25	2.6	3.9	32	0.6	7.9	<0.5	78	0.22
3201039	Drill Core	4.83	5.4	67.6	59.0	210	1.1	68.2	8.9	198	3.38	35	2.5	5.3	50	<0.5	8.2	<0.5	41	0.09
3201040	Rock	0.88	0.9	56.9	3.9	44	<0.5	4.8	9.7	464	3.00	<5	0.9	2.8	107	<0.5	<0.5	<0.5	111	1.22
3201041	Drill Core	4.19	3.0	50.1	36.9	41	0.5	34.3	4.9	42	2.63	31	2.8	5.2	265	<0.5	6.5	<0.5	45	0.06
3201042	Drill Core	3.97	3.4	51.0	40.5	49	0.7	31.8	5.0	32	2.82	31	3.0	5.1	243	<0.5	6.8	<0.5	42	0.06
3201043	Drill Core	5.56	4.2	53.6	42.6	30	0.7	36.1	6.3	37	2.79	33	2.8	6.1	50	<0.5	4.6	<0.5	41	0.08



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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
3201014	Drill Core	13.2	14.8	<0.01	>5000	0.002	1.79	<0.01	0.11	<0.5	0.13	2.8	1.0	0.53	<5	4	73.10	7.02	3.76	0.03	0.18
3201015	Drill Core	12.1	14.7	<0.01	>5000	0.002	1.90	<0.01	0.11	<0.5	0.12	2.1	0.7	0.33	<5	4	72.42	6.92	2.70	0.07	0.16
3201016	Drill Core	14.2	23.4	0.01	>5000	0.003	2.86	<0.01	0.15	<0.5	0.17	2.2	0.7	0.31	<5	6	69.88	7.93	2.72	0.18	0.12
3201017	Drill Core	8.2	49.0	<0.01	414	0.074	1.16	<0.01	0.04	<0.5	9.95	2.1	2.3	3.86	9	14	75.43	2.53	3.45	0.07	<0.01
3201018	Drill Core	16.7	115.2	<0.01	430	0.183	2.85	<0.01	0.09	<0.5	6.81	2.6	3.8	3.48	14	8	67.60	5.44	4.52	0.19	<0.01
3201019	Drill Core	14.2	108.0	<0.01	728	0.175	2.92	<0.01	0.07	<0.5	4.92	3.3	2.7	2.39	10	6	69.85	5.69	3.93	0.27	<0.01
3201020	Rock Pulp	19.9	12.4	2.07	97	0.012	0.78	<0.01	0.48	<0.5	4.83	2.0	44.7	10.78	<5	<2	34.06	6.85	11.42	5.36	3.83
3201021	Drill Core	11.2	81.8	<0.01	481	0.123	2.07	<0.01	0.03	0.8	7.23	2.4	1.8	2.47	8	6	68.33	4.24	2.82	0.17	<0.01
3201022	Drill Core	1.6	14.9	<0.01	543	0.020	0.44	<0.01	<0.01	<0.5	1.69	1.1	0.7	1.82	<5	<2	15.81	1.14	0.70	0.02	<0.01
3201023	Drill Core	7.2	55.7	<0.01	799	0.069	1.57	<0.01	0.02	<0.5	2.21	2.5	1.3	1.91	<5	2	30.36	3.24	1.56	0.06	0.01
3201024	Drill Core	2.8	18.4	0.01	802	0.027	0.44	<0.01	0.02	<0.5	3.44	0.7	1.3	1.44	<5	3	14.54	0.99	0.58	0.08	<0.01
3201025	Drill Core	2.5	16.4	<0.01	741	0.025	0.40	<0.01	0.02	<0.5	3.02	<0.5	1.3	1.54	<5	<2	14.01	0.95	0.52	0.06	<0.01
3201026	Drill Core	4.5	23.2	0.02	>5000	0.035	0.38	<0.01	0.02	<0.5	3.34	1.0	1.1	0.40	<5	2	17.61	0.88	0.45	0.09	0.03
3201027	Drill Core	7.8	52.4	0.01	668	0.070	1.76	<0.01	0.02	0.8	11.33	2.4	1.2	1.72	<5	3	32.64	3.48	1.72	0.14	0.03
3201028	Drill Core	12.7	84.9	<0.01	305	0.135	2.49	<0.01	0.04	<0.5	36.37	2.8	1.5	4.82	9	12	56.38	4.68	3.01	0.27	<0.01
3201029	Drill Core	12.8	75.4	<0.01	850	0.104	2.75	0.01	0.10	<0.5	17.74	3.6	1.6	2.61	10	6	69.15	5.17	2.66	0.27	0.01
3201030	Drill Core	13.4	57.2	0.02	1278	0.012	3.40	<0.01	0.15	<0.5	6.31	5.7	2.8	1.65	8	5	68.12	6.97	4.25	0.36	0.08
3201031	Drill Core	12.5	29.8	0.03	1339	0.003	2.98	<0.01	0.10	<0.5	3.32	3.6	7.4	1.77	7	4	68.72	6.77	5.43	0.41	0.11
3201032	Drill Core	12.8	24.8	0.02	691	0.003	2.86	<0.01	0.10	<0.5	1.71	2.5	7.4	2.19	6	6	67.17	6.84	6.46	0.37	0.09
3201033	Drill Core	12.4	21.1	0.02	1441	0.003	2.60	<0.01	0.11	<0.5	0.67	2.3	1.6	1.69	<5	5	69.61	7.05	5.61	0.42	0.13
3201034	Drill Core	13.3	19.0	0.01	2012	0.003	2.22	<0.01	0.11	<0.5	0.39	1.5	0.9	1.06	<5	5	71.81	7.02	3.35	0.40	0.14
3201035	Drill Core	13.6	17.0	0.01	1545	0.003	2.06	<0.01	0.11	<0.5	0.42	1.3	0.8	1.61	<5	7	72.20	6.88	3.86	0.38	0.17
3201036	Drill Core	12.3	18.1	0.02	432	0.004	2.11	<0.01	0.12	<0.5	0.37	2.3	0.7	3.67	<5	7	68.72	7.28	7.10	0.39	0.20
3201037	Drill Core	15.8	18.0	0.02	1252	0.004	2.21	<0.01	0.13	<0.5	0.30	1.3	0.7	1.31	<5	7	70.39	8.03	3.70	0.46	0.21
3201038	Drill Core	13.4	14.3	0.02	725	0.004	2.11	<0.01	0.12	<0.5	0.20	1.8	0.6	2.29	<5	5	70.40	8.17	5.70	0.33	0.22
3201039	Drill Core	15.6	11.8	0.01	713	0.003	1.96	<0.01	0.12	<0.5	0.22	2.8	<0.5	2.08	<5	3	70.10	9.35	5.21	0.14	0.22
3201040	Rock	7.6	6.9	0.91	202	0.199	2.20	0.31	0.31	<0.5	0.08	4.0	<0.5	<0.05	6	<2	60.50	16.88	6.50	6.21	2.91
3201041	Drill Core	17.3	18.7	0.02	585	0.004	0.97	<0.01	0.16	<0.5	0.08	5.5	<0.5	2.35	<5	3	72.92	9.21	4.24	0.10	0.30
3201042	Drill Core	15.9	18.2	0.01	485	0.004	0.84	<0.01	0.14	<0.5	0.13	5.3	<0.5	2.66	<5	3	72.92	9.15	4.52	0.09	0.30
3201043	Drill Core	21.2	17.4	0.02	1080	0.004	0.63	<0.01	0.21	<0.5	0.16	3.9	<0.5	2.85	<5	4	72.82	10.74	4.54	0.12	0.43



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	Method Analyte Unit MDL	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-
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.08	0.05
3201014	Drill Core	0.90	0.01	0.37	0.33	0.02	5.16	<0.01	0.32	0.02	7.36	99.23	0.12	0.91	1.41	0.88	<0.02	<0.08	0.23
3201015	Drill Core	0.83	0.02	0.38	0.23	0.02	5.97	<0.01	0.19	0.02	7.01	97.69	0.13	1.99	1.53	1.68	0.30	<0.08	0.42
3201016	Drill Core	0.72	0.02	0.41	0.35	0.02	7.68	<0.01	0.10	0.02	7.59	98.67	0.13	2.27	1.63	1.65	0.61	<0.08	0.57
3201017	Drill Core	0.04	0.01	0.19	0.13	0.01	3.88	<0.01	1.15	4.73	5.33	98.71	0.06	1.46	5.11	0.99	0.46	<0.08	2.51
3201018	Drill Core	0.10	0.02	0.35	0.21	0.02	7.31	<0.01	0.74	4.18	6.43	99.07	0.14	2.75	4.34	1.70	1.05	<0.08	2.23
3201019	Drill Core	0.07	0.02	0.33	0.27	0.02	7.61	<0.01	0.48	2.52	6.46	99.09	0.13	2.76	4.49	1.56	1.20	<0.08	2.94
3201020	Rock Pulp	3.51	0.17	0.22	0.09	0.01	0.07	0.03	4.84	10.70	14.65	98.99	<0.01	2.65	11.23	2.64	<0.02	<0.08	5.87
3201021	Drill Core	0.03	0.02	0.25	0.23	0.01	8.70	<0.01	1.54	3.04	7.00	98.28	0.08	1.87	5.02	0.97	0.89	<0.08	2.23
3201022	Drill Core	<0.01	0.02	0.03	0.11	<0.01	43.41	0.01	1.11	3.33	2.95	74.62	<0.01	0.09	12.49	0.06	0.02	<0.08	0.55
3201023	Drill Core	0.02	0.01	0.14	0.20	0.01	32.97	0.03	0.45	3.94	4.42	82.32	0.04	0.06	10.09	0.03	<0.02	<0.08	0.66
3201024	Drill Core	0.04	0.02	0.04	0.04	<0.01	43.48	<0.01	1.50	5.45	1.29	74.60	0.01	0.65	11.99	0.37	<0.02	1.00	1.20
3201025	Drill Core	0.04	0.02	0.04	0.04	0.01	43.61	<0.01	1.35	5.29	1.38	73.85	0.01	0.55	12.38	0.23	<0.02	1.15	1.32
3201026	Drill Core	0.04	0.02	0.05	0.04	0.01	43.12	<0.01	0.63	6.27	0.76	76.63	0.03	1.30	10.26	0.67	<0.02	2.28	1.11
3201027	Drill Core	<0.01	0.03	0.15	0.16	<0.01	30.66	0.03	1.05	4.51	4.15	83.54	0.05	0.52	9.55	0.21	0.03	1.05	1.41
3201028	Drill Core	0.03	0.04	0.28	0.21	0.02	10.27	<0.01	2.11	9.68	7.37	98.14	0.09	2.12	7.35	1.57	0.43	0.44	2.66
3201029	Drill Core	0.14	0.06	0.29	0.21	0.02	7.02	<0.01	0.23	5.94	5.31	98.80	0.09	2.49	4.55	1.62	0.81	0.18	2.64
3201030	Drill Core	0.34	0.05	0.36	0.26	0.02	8.08	<0.01	0.02	2.55	6.18	99.23	0.12	3.26	3.73	2.18	1.03	0.21	2.95
3201031	Drill Core	0.41	0.11	0.34	0.27	0.02	7.23	<0.01	0.03	1.09	7.34	99.38	0.13	3.38	3.71	1.97	1.23	0.67	3.07
3201032	Drill Core	0.47	0.11	0.34	0.27	0.03	7.08	<0.01	0.03	0.55	7.89	98.67	0.12	3.34	4.18	3.18	<0.02	0.65	3.63
3201033	Drill Core	0.63	0.12	0.36	0.31	0.02	6.40	<0.01	0.01	0.14	7.90	99.49	0.13	3.83	3.29	2.01	1.65	0.61	2.95
3201034	Drill Core	0.80	0.02	0.37	0.34	0.02	6.42	<0.01	0.01	0.03	7.30	98.81	0.14	3.92	2.59	2.09	1.82	<0.08	2.06
3201035	Drill Core	0.87	0.02	0.36	0.29	0.02	5.53	<0.01	0.01	0.05	6.80	98.12	0.12	3.53	3.03	1.81	1.68	0.14	2.68
3201036	Drill Core	0.94	0.08	0.37	0.31	0.02	5.09	<0.01	0.02	0.04	8.08	99.25	0.13	3.44	5.04	1.94	1.41	0.33	4.77
3201037	Drill Core	1.06	0.04	0.43	0.35	0.03	5.46	<0.01	0.01	0.04	6.78	97.66	0.14	3.40	2.67	1.91	1.46	0.13	2.45
3201038	Drill Core	1.12	0.09	0.42	0.25	0.02	5.26	<0.01	<0.01	0.03	6.51	99.14	0.11	2.44	3.61	1.66	0.68	0.38	3.34
3201039	Drill Core	1.24	0.04	0.53	0.27	0.02	5.03	<0.01	0.01	0.02	5.86	98.65	0.07	1.24	3.31	0.74	0.47	0.12	2.92
3201040	Rock	1.54	0.14	0.55	0.14	<0.01	0.06	<0.01	<0.01	<0.01	0.89	99.66	0.03	0.03	<0.02	0.02	<0.02	<0.08	<0.05
3201041	Drill Core	1.72	0.02	0.49	0.68	0.03	2.97	<0.01	<0.01	<0.01	5.63	98.69	0.06	1.26	3.11	1.01	0.25	<0.08	2.66
3201042	Drill Core	1.76	0.02	0.50	0.62	0.02	2.27	<0.01	<0.01	<0.01	5.66	98.11	0.06	1.37	3.21	1.00	0.36	<0.08	2.90
3201043	Drill Core	2.53	0.02	0.59	0.24	0.02	1.32	<0.01	<0.01	<0.01	5.28	98.85	0.07	1.51	3.20	1.34	0.17	<0.08	3.12



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Project: MacMillan Pass
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CERTIFICATE OF ANALYSIS

WHI19000295.1

	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
3201044	Drill Core	6.49	4.3	78.4	40.3	56	0.8	61.5	10.8	634	4.53	19	1.6	6.2	40	<0.5	6.2	<0.5	38	0.15	0.074



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CERTIFICATE OF ANALYSIS

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Method	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
MDL	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
3201044 Drill Core	17.8	11.9	0.03	454	0.005	0.57	<0.01	0.24	<0.5	0.32	2.4	<0.5	4.12	<5	3	70.61	10.12	7.17	0.23	0.44



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CERTIFICATE OF ANALYSIS

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
Analyte	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
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	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	0.08	0.05	0.05
3201044 Drill Core	2.50	0.09	0.59	0.19	0.02	1.26	<0.01	<0.01	<0.01	5.97	99.38	0.06	1.39	4.48	1.18	0.13	0.32	4.36	0.35



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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
3201034	Drill Core	5.22	19.7	50.9	79.2	347	0.8	77.5	5.4	80	2.18	25	3.0	3.2	64	1.6	6.2	<0.5	107	0.27	0.128
Pulp Duplicates																					
3201020	Rock Pulp	0.04	2.9	347.8	>40000	106630	101.8	24.0	25.4	1289	7.69	147	1.4	5.8	17	332.7	175.2	0.7	14	3.74	0.041
REP 3201020	QC																				
3201021	Drill Core	3.45	10.1	113.0	13992.5	30479	1.8	54.7	7.2	49	1.88	63	2.0	2.7	81	199.1	5.8	<0.5	435	0.11	0.095
REP 3201021	QC		10.0	114.8	13740.1	30636	1.7	53.2	7.9	48	1.85	62	1.9	2.8	77	201.4	5.9	<0.5	429	0.11	0.085
REP 3201027	QC																				
3201033	Drill Core	5.36	17.1	52.6	109.4	1395	0.9	72.3	6.5	879	3.68	26	2.7	3.5	66	1.7	6.8	<0.5	117	0.28	0.123
REP 3201033	QC																				
Core Reject Duplicates																					
3201027	Drill Core	5.93	7.0	359.4	9656.2	46485	1.3	44.8	4.7	167	1.16	38	3.1	1.9	486	387.6	9.2	<0.5	245	0.09	0.070
DUP 3201027	QC		7.4	365.1	9769.4	46425	1.4	44.8	4.5	176	1.18	36	3.2	1.8	483	409.0	9.9	<0.5	246	0.09	0.066
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.4	48299.4	848.7	2160	999.0	1540.7	99.6	86	3.57	1712	0.9	2.3	44	14.6	282.9	18.9	<10	0.18	0.010



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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	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
3201034	Drill Core	13.3	19.0	0.01	2012	0.003	2.22	<0.01	0.11	<0.5	0.39	1.5	0.9	1.06	<5	5	71.81	7.02	3.35	0.40	0.14
Pulp Duplicates																					
3201020	Rock Pulp	19.9	12.4	2.07	97	0.012	0.78	<0.01	0.48	<0.5	4.83	2.0	44.7	10.78	<5	<2	34.06	6.85	11.42	5.36	3.83
REP 3201020	QC																				
3201021	Drill Core	11.2	81.8	<0.01	481	0.123	2.07	<0.01	0.03	0.8	7.23	2.4	1.8	2.47	8	6	68.33	4.24	2.82	0.17	<0.01
REP 3201021	QC	11.6	79.0	<0.01	543	0.124	2.07	<0.01	0.03	0.9	7.28	2.8	2.2	2.48	8	5	68.28	4.23	2.84	0.17	<0.01
REP 3201027	QC																				
3201033	Drill Core	12.4	21.1	0.02	1441	0.003	2.60	<0.01	0.11	<0.5	0.67	2.3	1.6	1.69	<5	5	69.61	7.05	5.61	0.42	0.13
REP 3201033	QC																69.18	7.01	5.57	0.42	0.12
Core Reject Duplicates																					
3201027	Drill Core	7.8	52.4	0.01	668	0.070	1.76	<0.01	0.02	0.8	11.33	2.4	1.2	1.72	<5	3	32.64	3.48	1.72	0.14	0.03
DUP 3201027	QC	7.9	52.0	0.02	625	0.069	1.75	<0.01	0.02	1.0	11.74	2.5	1.2	1.76	<5	3	32.55	3.51	1.74	0.15	0.03
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																34.75	7.18	11.55	5.30	3.85
STD OREAS605	Standard	7.5	29.1	0.03	191	0.010	0.73	0.03	0.13	6.5	1.98	0.8	15.0	7.92	6	73					



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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	0.08	0.05	0.05
3201034	Drill Core	0.80	0.02	0.37	0.34	0.02	6.42	<0.01	0.01	0.03	7.30	98.81	0.14	3.92	2.59	2.09	1.82	<0.08	2.06	1.59
Pulp Duplicates																				
3201020	Rock Pulp	3.51	0.17	0.22	0.09	0.01	0.07	0.03	4.84	10.70	14.65	98.99	<0.01	2.65	11.23	2.64	<0.02	<0.08	5.87	16.08
REP 3201020	QC																			15.89
3201021	Drill Core	0.03	0.02	0.25	0.23	0.01	8.70	<0.01	1.54	3.04	7.00	98.28	0.08	1.87	5.02	0.97	0.89	<0.08	2.23	8.11
REP 3201021	QC	0.02	0.01	0.25	0.23	0.01	8.63	<0.01	1.54	3.04	7.00	98.16	0.08	1.85	4.98					
REP 3201027	QC													0.52	9.51		0.02			
3201033	Drill Core	0.63	0.12	0.36	0.31	0.02	6.40	<0.01	0.01	0.14	7.90	99.49	0.13	3.83	3.29	2.01	1.65	0.61	2.95	1.03
REP 3201033	QC	0.63	0.13	0.35	0.30	0.03	6.39	<0.01	0.01	0.14	7.90	98.99	0.13							
Core Reject Duplicates																				
3201027	Drill Core	<0.01	0.03	0.15	0.16	<0.01	30.66	0.03	1.05	4.51	4.15	83.54	0.05	0.52	9.55	0.21	0.03	1.05	1.41	24.43
DUP 3201027	QC	<0.01	0.03	0.14	0.16	0.01	31.26	0.03	1.08	4.60	4.28	84.49	0.04	0.53	9.35	0.20	0.03	1.10	1.29	24.17
Reference Materials																				
STD COO1	Standard																	2.44		
STD COO1	Standard																	2.38		
STD COO1	Standard																	2.47		
STD COO1	Standard																	2.47		
STD COO1	Standard																	2.38		
STD COO1	Standard																	2.39		
STD GGC-10	Standard																4.73			
STD GGC-10	Standard																4.77			
STD GGC-10	Standard																4.79			
STD GGC-10	Standard																4.76			
STD GS311-1	Standard													1.04	2.39					
STD GS311-1	Standard													1.01	2.49					
STD GS910-4	Standard													2.81	8.46					
STD GS910-4	Standard													2.67	8.62					
STD OREAS133B(D)	Standard	3.45	0.16	0.23	0.13	<0.01	0.05	0.06	5.09	11.37	13.03	99.59	<0.01							
STD OREAS605	Standard																			



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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 OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.1	10745.4	214.8	720	4.2	27.9	30.0	1045	8.08	11	1.6	13.2	12	1.0	1.1	66.1	32	0.31
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD RTS-3A Expected																				
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
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
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD COO1 Expected																				
STD GGC-10 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
BLK	Blank		<0.5	<0.5	0.8	10	<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																			
Prep Wash																				
ROCK-WHI	Prep Blank		1.1	2.3	2.6	34	<0.5	1.0	3.3	476	1.70	<5	0.6	2.2	24	<0.5	<0.5	<0.5	24	0.64
ROCK-WHI	Prep Blank		1.1	2.9	2.5	33	<0.5	0.8	3.4	533	1.83	<5	<0.5	2.3	22	<0.5	<0.5	<0.5	25	0.62



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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 OREAS72B	Standard																51.15	8.89	9.97	3.99	16.10
STD OREAS927-AR	Standard	28.5	39.8	1.88	55	0.094	3.22	<0.01	0.25	4.8	0.16	3.7	<0.5	1.71	9	14					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																50.05	20.73	6.22	8.00	0.54
STD RTS-3A Expected																					
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 GS311-1 Expected																					
STD GS910-4 Expected																					
STD COO1 Expected																					
STD GGC-10 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.46	0.32	0.01	0.01	0.02
BLK	Blank	<0.5	<0.5	<0.01	7	<0.001	<0.01	<0.01	<0.01	<0.5	0.21	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.8	2.0	0.44	62	0.096	0.85	0.07	0.08	<0.5	<0.05	2.9	<0.5	<0.05	<5	<2	71.13	13.93	3.16	2.36	0.89
ROCK-WHI	Prep Blank	6.7	2.2	0.49	62	0.103	0.87	0.08	0.09	<0.5	<0.05	2.8	<0.5	<0.05	<5	<2	71.15	13.94	3.31	2.28	0.93



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MacMillan Pass

Report Date:

September 14, 2019

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		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	0.08	0.05	0.05	
STD OREAS72B	Standard	1.31	0.14	0.35	0.06	0.15	0.03	0.02	<0.01	0.01	5.12	98.59	0.01								
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard	1.66	0.11	0.30	0.14	<0.01	0.04	<0.01	0.01	0.01	4.56	99.51	<0.01								
STD RTS-3A Expected																					
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 GS311-1 Expected														1.02	2.35						
STD GS910-4 Expected														2.65	8.27						
STD COO1 Expected																			2.37		
STD GGC-10 Expected																			4.79		
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
BLK	Blank																		<0.02		
SI BLK	Blank	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.80	<0.01								
BLK	Blank																				
BLK	Blank																		<0.08		
BLK	Blank																		<0.08		
BLK	Blank													<0.02	<0.02						
BLK	Blank																		<0.08		
BLK	Blank																		<0.02		
Prep Wash																					
ROCK-WHI	Prep Blank	1.93	0.10	0.36	0.10	<0.01	0.07	<0.01	<0.01	<0.01	0.79	99.41	<0.01	0.09	<0.02	0.03	<0.02	0.18	<0.05	0.27	
ROCK-WHI	Prep Blank	1.90	0.10	0.36	0.10	<0.01	0.07	<0.01	<0.01	<0.01	0.79	99.68	<0.01	0.09	<0.02	0.05	<0.02	0.14	<0.05	0.32	