



BUREAU MINERAL LABORATORIES
VERITAS 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: July 25, 2019
Report Date: August 18, 2019
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CERTIFICATE OF ANALYSIS

WHI19000263.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-014
P.O. Number
Number of Samples: 44

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	43	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	43	Extra clean rock wash between samples in crusher			WHI
PULSW	43	Extra Wash with Silica between each sample			WHI
AQ270	44	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	44	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	44	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	44	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	44	Inorganic Carbon	0.2	Completed	VAN
TC009	44	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	44	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	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
3200792	Drill Core	4.86	3.0	70.6	85.4	726	<0.5	98.1	25.6	2050	7.11	50	0.7	5.6	25	2.9	27.3	<0.5	23	0.04	0.016
3200793	Drill Core	5.92	2.6	47.3	37.9	803	0.6	66.0	20.3	1214	5.36	41	0.6	5.8	50	2.6	18.1	<0.5	34	0.04	0.026
3200794	Drill Core	5.96	2.7	16.7	11.6	878	<0.5	49.1	13.2	1191	3.91	34	0.9	5.1	90	1.6	8.1	<0.5	66	0.02	0.015
3200795	Drill Core	5.09	2.3	17.4	48.0	471	<0.5	74.8	11.0	604	3.40	46	1.7	4.9	65	1.1	9.0	<0.5	125	0.01	0.019
3200796	Drill Core	3.25	2.1	89.7	448.3	232	<0.5	66.8	3.7	67	2.29	170	2.5	3.5	82	1.5	7.2	<0.5	97	<0.01	0.045
3200797	Drill Core	3.73	3.3	133.3	749.2	753	0.5	146.0	9.8	671	4.49	130	2.2	3.6	74	4.4	8.3	<0.5	148	0.02	0.035
3200798	Drill Core	3.89	10.0	172.9	>40000	104659	29.7	75.7	12.9	54	3.92	120	1.9	2.1	45	319.2	124.5	<0.5	286	0.04	0.036
3200799	Drill Core	4.49	9.9	198.1	32885.6	120148	9.8	97.5	24.4	348	2.11	134	2.7	2.3	120	414.2	59.5	<0.5	318	0.08	0.093
3200800	Rock	0.93	1.5	136.6	24.1	86	<0.5	5.8	10.8	459	3.02	<5	1.0	2.5	101	<0.5	<0.5	<0.5	103	1.14	0.055
3200801	Drill Core	1.26	2.6	176.9	10348.1	96997	4.1	22.8	9.0	1176	1.76	35	4.5	0.7	21	389.1	134.7	<0.5	71	0.04	0.037
3200802	Drill Core	1.31	2.9	287.0	14628.2	>200000	7.5	26.5	19.3	901	3.16	78	2.2	0.5	14	879.4	291.9	<0.5	73	0.05	0.021
3200803	Drill Core	5.12	11.4	40.7	14701.4	70616	13.4	63.1	22.9	270	2.56	107	2.3	2.2	77	187.5	41.0	<0.5	310	0.06	0.052
3200804	Drill Core	4.21	9.5	1089.0	23697.7	95972	25.8	61.4	15.8	43	1.56	109	2.0	2.6	98	387.0	105.6	<0.5	242	0.01	0.069
3200805	Drill Core	4.11	8.4	1334.1	37268.5	113599	36.3	30.8	13.5	48	1.60	79	1.6	2.2	38	529.6	101.4	<0.5	165	<0.01	0.052
3200806	Drill Core	3.38	15.1	34.9	5436.2	23819	6.0	115.6	23.9	42	1.83	204	1.9	2.9	92	75.0	24.5	<0.5	385	0.02	0.051
3200807	Drill Core	4.15	10.6	81.9	12165.9	45230	11.5	70.2	16.2	440	2.15	120	1.5	2.5	63	152.1	35.3	<0.5	290	0.02	0.031
3200808	Drill Core	5.25	12.1	172.4	20535.0	61250	14.2	90.2	22.4	58	2.05	119	2.4	2.8	106	227.8	63.1	<0.5	313	0.03	0.065
3200809	Drill Core	4.05	7.8	958.4	36950.0	112809	16.3	41.3	10.7	45	0.92	55	2.7	1.7	104	553.4	98.8	<0.5	170	0.01	0.086
3200810	Drill Core	4.33	4.3	35.9	20809.4	57573	2.1	35.7	10.7	68	0.64	29	1.4	1.0	89	239.0	14.5	<0.5	98	0.02	0.042
3200811	Drill Core	4.28	6.9	214.0	21848.5	46453	1.1	40.8	14.1	194	1.31	76	1.3	1.4	61	184.9	16.4	<0.5	175	0.04	0.038
3200812	Drill Core	4.25	9.1	54.7	14506.7	57390	1.0	95.2	30.6	45	1.66	131	1.8	2.2	122	239.5	24.1	<0.5	257	0.04	0.071
3200813	Drill Core	5.29	4.5	24.7	19713.4	46308	0.7	25.7	18.4	231	1.00	39	1.1	1.1	31	204.5	15.4	<0.5	115	0.02	0.011
3200814	Drill Core	4.92	6.6	23.3	19384.1	75641	<0.5	25.9	27.2	257	1.28	54	1.1	1.3	52	322.0	17.6	<0.5	150	0.46	0.006
3200815	Drill Core	5.44	5.0	20.3	27805.7	68642	0.8	23.4	21.2	108	0.97	50	1.2	1.1	24	292.5	16.0	<0.5	119	<0.01	0.004
3200816	Drill Core	5.29	5.5	20.3	23522.4	57784	0.5	20.0	16.3	151	1.19	26	1.0	1.2	30	258.6	13.0	<0.5	131	0.02	0.009
3200817	Drill Core	4.56	2.3	13.7	24325.8	55110	<0.5	10.4	6.7	179	0.94	14	0.8	<0.5	30	261.3	9.4	<0.5	24	<0.01	0.002
3200818	Drill Core	4.54	8.0	31.8	18709.4	42941	0.8	42.1	22.3	189	1.77	60	1.6	1.7	30	183.3	18.7	<0.5	182	0.01	0.016
3200819	Drill Core	6.80	8.2	41.5	27619.2	57431	3.6	49.8	22.7	375	2.46	40	1.9	1.7	27	251.5	28.9	<0.5	195	0.02	0.021
3200820	Rock Pulp	0.06	3.2	355.0	>40000	100895	95.8	25.6	23.3	1268	7.59	145	1.2	6.5	17	317.7	164.3	0.5	<10	3.71	0.046
3200821	Drill Core	2.24	13.1	52.7	24591.6	66034	4.5	52.2	27.6	141	3.06	58	2.7	2.1	28	280.7	38.6	<0.5	309	0.07	0.017



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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
3200792	Drill Core	16.2	9.0	0.01	1395	0.006	2.70	<0.01	0.12	0.6	0.15	8.1	0.5	3.23	<5	2	57.97	10.45	10.53	0.09	0.14
3200793	Drill Core	18.8	12.8	0.01	1741	0.006	3.37	<0.01	0.23	<0.5	0.08	6.5	<0.5	2.14	7	<2	59.89	10.94	8.37	0.09	0.11
3200794	Drill Core	16.4	19.7	<0.01	>5000	0.017	3.59	0.01	0.31	1.5	<0.05	5.7	<0.5	0.99	14	<2	63.98	10.48	6.05	0.06	0.02
3200795	Drill Core	10.3	23.4	<0.01	2098	0.030	1.99	<0.01	0.12	0.9	<0.05	4.1	<0.5	2.11	8	<2	69.13	8.75	5.20	0.04	0.02
3200796	Drill Core	10.2	24.4	<0.01	1922	0.017	1.04	<0.01	0.02	0.7	<0.05	11.1	<0.5	1.72	<5	<2	74.54	6.74	3.55	0.03	0.02
3200797	Drill Core	9.2	32.5	<0.01	769	0.032	2.11	<0.01	0.06	0.5	0.09	8.0	<0.5	3.68	<5	<2	67.09	7.97	7.00	0.06	0.03
3200798	Drill Core	5.1	54.8	<0.01	211	0.086	1.00	<0.01	0.01	0.9	19.85	3.4	0.5	9.89	<5	11	54.25	2.89	5.93	0.08	0.01
3200799	Drill Core	6.3	70.2	<0.01	247	0.096	1.37	<0.01	0.01	1.2	19.85	2.2	0.9	7.93	6	3	49.59	4.07	3.23	0.15	<0.01
3200800	Rock	7.3	6.8	0.87	277	0.187	2.06	0.30	0.33	<0.5	<0.05	5.3	<0.5	<0.05	6	<2	60.27	16.69	6.51	6.26	2.86
3200801	Drill Core	1.3	16.3	<0.01	835	0.020	0.71	<0.01	<0.01	0.8	16.63	1.7	<0.5	5.14	<5	<2	32.88	1.72	2.71	0.08	<0.01
3200802	Drill Core	1.2	16.6	<0.01	152	0.021	0.60	<0.01	<0.01	0.7	36.20	0.9	1.0	13.20	<5	3	36.75	1.44	4.63	0.08	<0.01
3200803	Drill Core	8.6	65.0	<0.01	586	0.093	1.01	<0.01	0.01	1.4	16.56	2.0	1.6	5.36	<5	3	68.28	3.43	3.86	0.11	<0.01
3200804	Drill Core	8.7	56.9	<0.01	343	0.068	0.72	<0.01	0.01	0.9	30.68	3.6	1.6	6.30	<5	3	68.08	4.15	2.35	0.02	<0.01
3200805	Drill Core	3.9	40.5	<0.01	417	0.039	0.51	<0.01	0.02	0.5	37.81	2.9	1.4	7.35	<5	5	68.17	3.49	2.39	0.02	<0.01
3200806	Drill Core	9.6	83.3	<0.01	1142	0.109	1.21	<0.01	0.02	1.2	7.81	1.6	1.5	2.74	<5	<2	73.98	6.38	2.82	0.06	<0.01
3200807	Drill Core	7.4	61.1	<0.01	694	0.084	1.04	<0.01	0.01	1.0	13.47	1.2	1.0	3.57	<5	<2	73.31	4.57	3.28	0.05	<0.01
3200808	Drill Core	9.0	67.8	<0.01	474	0.089	1.06	<0.01	0.01	0.9	17.75	2.6	1.4	5.06	<5	3	70.72	4.35	3.03	0.06	<0.01
3200809	Drill Core	5.4	43.2	<0.01	299	0.043	0.74	<0.01	0.01	0.8	37.62	2.8	1.3	6.90	<5	3	51.69	2.96	1.44	0.04	<0.01
3200810	Drill Core	3.4	24.0	<0.01	838	0.027	0.45	<0.01	<0.01	1.1	18.03	1.9	1.2	3.54	<5	<2	37.13	1.80	1.03	0.05	<0.01
3200811	Drill Core	4.8	37.1	<0.01	675	0.050	0.78	<0.01	0.01	1.0	15.36	1.5	1.6	3.21	<5	2	50.67	2.24	1.99	0.07	<0.01
3200812	Drill Core	6.3	58.8	<0.01	741	0.077	0.95	<0.01	<0.01	1.4	19.06	1.2	1.3	4.32	<5	2	48.94	3.06	2.52	0.08	<0.01
3200813	Drill Core	3.8	28.3	<0.01	1778	0.034	0.45	<0.01	<0.01	0.6	15.81	0.9	1.5	2.88	<5	<2	45.63	1.54	1.58	0.05	0.01
3200814	Drill Core	3.3	33.8	0.04	831	0.044	0.51	<0.01	<0.01	1.0	25.93	2.4	2.1	4.44	<5	<2	25.91	1.56	1.94	0.66	0.07
3200815	Drill Core	2.4	28.8	<0.01	697	0.036	0.40	<0.01	<0.01	1.0	23.30	1.2	2.6	4.29	<5	<2	25.90	1.38	1.54	0.03	<0.01
3200816	Drill Core	3.9	28.3	<0.01	906	0.039	0.56	<0.01	<0.01	0.7	13.97	1.4	2.2	3.49	<5	<2	35.33	1.33	1.87	0.05	<0.01
3200817	Drill Core	0.7	5.3	<0.01	1085	0.006	0.13	<0.01	<0.01	0.6	3.35	0.5	2.3	3.38	<5	<2	36.94	0.51	1.45	0.02	<0.01
3200818	Drill Core	4.7	40.1	<0.01	756	0.051	0.62	<0.01	0.01	<0.5	7.10	1.3	2.6	3.43	<5	2	59.48	2.60	2.75	0.03	<0.01
3200819	Drill Core	5.2	39.5	<0.01	565	0.054	0.65	<0.01	<0.01	0.9	11.79	2.1	2.3	4.78	<5	5	46.48	2.12	3.73	0.04	<0.01
3200820	Rock Pulp	16.7	12.9	2.05	103	0.014	0.72	<0.01	0.47	<0.5	4.51	3.0	45.7	10.69	<5	<2	33.77	6.78	11.26	5.28	3.83
3200821	Drill Core	5.6	58.3	<0.01	443	0.089	1.05	<0.01	0.02	1.0	17.27	1.9	2.5	5.66	6	7	63.15	3.08	4.74	0.12	0.03



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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
3200792 Drill Core	1.06	0.28	0.59	0.13	<0.01	7.71	<0.01	<0.01	0.08	8.58	98.53	0.05	1.28	5.23	0.43	0.27	2.10	4.54	2.06
3200793 Drill Core	0.99	0.19	0.60	0.11	<0.01	9.58	<0.01	<0.01	0.08	7.31	99.40	0.04	1.08	4.56	0.38	0.29	1.52	3.92	1.93
3200794 Drill Core	0.57	0.18	0.57	0.10	<0.01	9.27	<0.01	<0.01	0.09	6.28	98.75	0.03	0.93	3.18	0.32	0.29	1.15	2.51	2.01
3200795 Drill Core	0.24	0.10	0.46	0.15	<0.01	6.04	<0.01	<0.01	0.05	7.01	97.93	0.05	0.80	3.76	0.41	0.27	0.43	2.73	3.07
3200796 Drill Core	0.07	0.03	0.33	0.18	<0.01	5.05	<0.01	0.03	0.02	6.37	97.56	0.03	0.41	3.09	0.23	0.17	<0.08	1.82	3.82
3200797 Drill Core	0.14	0.11	0.38	0.19	<0.01	5.48	<0.01	0.08	0.09	9.19	98.48	0.05	0.93	5.27	0.41	0.37	0.57	3.98	3.86
3200798 Drill Core	0.04	0.03	0.18	0.13	<0.01	5.66	0.01	4.59	10.84	10.26	98.56	0.06	1.43	11.52	1.07	0.36	<0.08	5.08	19.32
3200799 Drill Core	0.03	0.07	0.20	0.27	<0.01	9.04	0.01	3.32	12.66	11.43	98.50	0.06	1.81	10.36	1.12	0.63	0.26	2.13	24.71
3200800 Rock	1.50	0.15	0.54	0.14	<0.01	0.07	<0.01	<0.01	<0.01	0.81	99.17	0.03	0.05	0.02	0.03	<0.02	0.09	<0.05	0.13
3200801 Drill Core	0.02	0.17	0.02	0.15	<0.01	25.96	<0.01	1.06	9.91	6.37	86.58	0.01	0.67	11.56	0.39	0.09	0.71	0.31	33.75
3200802 Drill Core	0.03	0.13	0.03	0.09	<0.01	11.42	0.06	1.42	22.24	9.68	94.90	0.01	0.70	15.22	0.47	0.06	0.61	1.67	40.65
3200803 Drill Core	0.05	0.05	0.20	0.18	<0.01	4.43	<0.01	1.42	7.36	7.53	99.32	0.06	1.31	6.74	0.77	0.47	0.29	2.37	13.10
3200804 Drill Core	0.09	0.02	0.20	0.25	<0.01	2.17	0.09	2.35	9.72	6.72	99.08	0.06	0.37	7.38	0.32	0.04	<0.08	2.30	15.23
3200805 Drill Core	0.12	0.02	0.16	0.18	<0.01	0.60	0.12	3.62	11.68	5.82	99.64	0.05	0.20	8.07	0.20	<0.02	<0.08	4.10	11.93
3200806 Drill Core	0.10	0.02	0.32	0.25	0.01	3.98	<0.01	0.52	2.35	7.24	99.10	0.09	1.63	3.95	0.73	0.90	<0.08	1.95	6.00
3200807 Drill Core	0.08	0.08	0.22	0.19	<0.01	3.65	<0.01	1.20	4.71	6.56	99.57	0.08	1.02	4.81	0.56	0.37	0.35	1.68	9.40
3200808 Drill Core	0.07	0.02	0.24	0.23	<0.01	3.04	<0.01	2.00	6.33	6.36	98.52	0.07	0.40	6.21	0.26	0.13	<0.08	2.37	11.52
3200809 Drill Core	0.07	0.03	0.15	0.24	<0.01	11.36	0.09	3.65	11.65	8.63	96.50	0.04	0.06	9.33	0.06	<0.02	<0.08	4.00	16.01
3200810 Drill Core	0.03	0.03	0.07	0.13	<0.01	26.53	<0.01	2.06	5.92	4.82	84.30	0.03	0.06	9.83	0.04	<0.02	<0.08	1.41	25.25
3200811 Drill Core	0.03	0.05	0.11	0.11	<0.01	19.56	0.01	2.27	4.78	5.37	90.89	0.04	0.10	8.03	0.06	<0.02	0.14	0.94	21.27
3200812 Drill Core	0.04	0.02	0.18	0.23	<0.01	18.34	<0.01	1.45	5.82	6.75	91.09	0.05	0.06	9.02	0.06	<0.02	<0.08	1.60	22.25
3200813 Drill Core	0.02	0.06	0.08	0.05	<0.01	23.76	<0.01	2.06	4.83	3.63	87.39	0.03	0.12	8.68	0.06	<0.02	0.21	0.89	23.37
3200814 Drill Core	0.04	0.06	0.09	0.03	<0.01	30.92	<0.01	1.96	7.66	4.80	81.33	0.03	0.31	12.14	0.11	<0.02	0.73	0.82	33.96
3200815 Drill Core	0.03	0.04	0.08	0.04	<0.01	32.71	<0.01	3.01	7.21	4.63	82.39	0.03	0.10	12.08	0.06	<0.02	0.15	0.98	33.30
3200816 Drill Core	0.02	0.06	0.08	0.03	<0.01	28.10	<0.01	2.47	5.93	3.89	84.07	0.03	0.12	10.19	0.06	<0.02	0.24	0.62	28.71
3200817 Drill Core	<0.01	0.04	0.02	<0.01	<0.01	27.68	<0.01	2.55	5.61	3.63	83.25	<0.01	0.13	10.14	0.08	<0.02	0.19	0.30	29.51
3200818 Drill Core	0.06	0.05	0.15	0.13	<0.01	14.39	<0.01	1.90	4.55	5.31	94.36	0.05	0.11	7.20	0.06	<0.02	0.20	1.82	16.13
3200819 Drill Core	0.05	0.07	0.14	0.11	<0.01	18.82	<0.01	2.85	6.00	4.70	89.00	0.05	0.17	9.61	0.07	<0.02	0.35	2.35	21.78
3200820 Rock Pulp	3.48	0.18	0.21	0.09	<0.01	0.07	0.02	4.74	10.59	15.02	98.37	<0.01	2.53	10.94	0.82	<0.02	6.27	5.57	16.10
3200821 Drill Core	0.07	0.04	0.23	0.12	<0.01	7.55	<0.01	2.56	7.03	6.26	97.77	0.08	0.23	8.11	0.14	0.03	0.22	3.14	14.91



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Project: MacMillan Pass

Report Date: August 18, 2019

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CERTIFICATE OF ANALYSIS

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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	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
3200822	Drill Core	2.20	11.6	49.3	21330.7	47988	3.7	47.8	23.1	154	3.02	56	1.2	2.0	33	201.4	34.6	<0.5	260	0.07	0.019
3200823	Drill Core	5.57	9.1	21.5	1586.9	21084	0.6	62.1	13.9	231	2.13	55	2.4	2.1	75	89.2	14.6	<0.5	286	0.07	0.065
3200824	Drill Core	3.57	7.5	27.6	3893.1	19619	1.5	120.7	14.8	85	1.61	72	1.9	1.9	139	89.1	16.3	<0.5	331	0.11	0.095
3200825	Drill Core	4.13	8.8	22.7	1548.3	437	0.9	101.7	27.2	77	1.85	57	1.7	2.9	108	1.4	14.1	<0.5	501	0.26	0.151
3200826	Drill Core	4.70	11.3	31.3	2724.8	10666	1.4	103.8	33.7	90	2.33	69	1.8	3.2	98	51.6	16.6	<0.5	530	0.16	0.108
3200827	Drill Core	4.20	6.1	45.8	33468.6	83496	11.4	64.9	15.6	41	0.85	35	6.2	1.4	66	577.0	19.0	<0.5	201	0.02	0.095
3200828	Drill Core	4.12	6.9	45.6	38464.3	83360	17.2	76.8	19.8	43	1.28	70	4.6	1.6	60	510.6	16.2	<0.5	203	0.02	0.075
3200829	Drill Core	4.91	7.2	78.0	23622.9	64638	19.0	71.7	23.9	48	1.33	84	4.5	1.7	87	420.4	13.9	<0.5	207	0.04	0.073
3200830	Drill Core	5.11	7.6	79.6	37685.0	66236	29.0	71.7	27.8	53	1.21	85	5.2	2.0	52	539.3	31.3	<0.5	273	0.02	0.064
3200831	Drill Core	3.72	1.2	42.1	29687.6	66487	47.7	10.5	3.5	28	0.38	15	1.3	<0.5	44	474.6	17.8	<0.5	29	<0.01	0.010
3200832	Drill Core	3.34	6.0	64.9	>40000	84325	101.0	56.9	19.5	73	1.06	94	5.3	1.2	50	644.3	67.0	<0.5	215	0.01	0.065
3200833	Drill Core	2.52	7.8	28.6	20599.9	43525	12.9	61.4	31.4	42	1.26	77	2.9	1.6	31	285.9	13.0	<0.5	217	<0.01	0.040
3200834	Drill Core	3.86	8.3	38.5	32107.2	72744	29.4	46.9	33.5	45	1.21	63	2.5	1.6	25	511.5	19.0	<0.5	170	<0.01	0.022
3200835	Drill Core	3.63	8.8	33.6	26724.0	56046	18.9	42.6	32.8	54	1.42	95	2.3	1.7	32	386.3	16.8	<0.5	213	<0.01	0.030



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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
3200822	Drill Core	5.7	51.8	<0.01	778	0.075	1.10	<0.01	0.02	0.9	11.61	2.3	2.8	4.44	<5	6	65.37	3.08	4.59	0.12	0.02
3200823	Drill Core	8.4	55.2	<0.01	1458	0.082	1.21	<0.01	0.01	0.9	4.50	1.6	0.9	2.20	<5	<2	69.14	3.62	3.31	0.13	<0.01
3200824	Drill Core	8.9	64.8	<0.01	726	0.096	1.40	<0.01	0.01	0.8	4.16	2.1	0.7	2.38	<5	2	76.44	4.16	2.32	0.15	0.02
3200825	Drill Core	15.9	107.7	<0.01	3133	0.148	2.17	<0.01	0.03	1.0	0.20	2.5	1.1	0.89	<5	3	80.22	4.92	2.66	0.37	<0.01
3200826	Drill Core	16.2	108.7	<0.01	902	0.160	1.76	<0.01	0.02	1.0	2.45	2.4	1.2	2.07	<5	3	79.32	4.12	3.27	0.23	<0.01
3200827	Drill Core	5.3	39.8	<0.01	277	0.043	1.54	<0.01	<0.01	0.9	16.24	3.3	2.1	5.22	<5	6	52.07	3.19	1.17	0.04	0.01
3200828	Drill Core	5.2	43.1	<0.01	248	0.055	1.25	<0.01	<0.01	0.9	18.45	3.5	1.5	5.71	<5	7	44.72	2.69	1.79	0.04	<0.01
3200829	Drill Core	6.4	46.5	<0.01	362	0.053	1.03	<0.01	<0.01	<0.5	22.12	2.9	2.0	4.67	<5	5	58.24	2.89	1.80	0.06	<0.01
3200830	Drill Core	7.2	58.4	<0.01	295	0.069	0.82	<0.01	<0.01	<0.5	44.71	2.5	3.5	4.82	<5	6	60.90	3.06	1.65	0.04	<0.01
3200831	Drill Core	<0.5	5.4	<0.01	504	0.004	0.18	<0.01	<0.01	<0.5	47.17	0.6	0.5	3.94	<5	<2	21.02	0.50	0.51	0.02	<0.01
3200832	Drill Core	4.0	43.0	<0.01	258	0.046	1.01	<0.01	<0.01	0.5	94.38	2.1	1.7	7.58	<5	4	35.53	3.01	1.44	0.03	0.01
3200833	Drill Core	5.9	50.4	<0.01	574	0.062	0.42	<0.01	<0.01	<0.5	16.72	1.8	1.4	3.48	<5	5	78.26	2.48	1.72	0.01	<0.01
3200834	Drill Core	3.4	44.0	<0.01	402	0.048	0.28	<0.01	<0.01	<0.5	27.16	1.3	1.7	5.02	<5	6	62.51	2.21	1.64	0.02	<0.01
3200835	Drill Core	3.4	46.4	<0.01	336	0.059	0.32	<0.01	<0.01	<0.5	20.07	1.3	1.2	4.21	<5	6	67.33	2.53	1.90	0.02	<0.01



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Project: MacMillan Pass

Report Date: August 18, 2019

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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
3200822 Drill Core	0.08	0.04	0.19	0.14	<0.01	8.28	<0.01	2.19	4.95	5.91	97.31	0.06	0.22	6.97	0.14	<0.02	0.24	2.95	12.05
3200823 Drill Core	0.04	0.06	0.16	0.22	<0.01	10.03	<0.01	0.15	2.06	5.08	95.68	0.06	0.30	4.82	0.13	0.09	0.29	1.64	9.55
3200824 Drill Core	0.02	0.03	0.18	0.26	<0.01	5.65	<0.01	0.38	1.92	4.97	97.70	0.07	0.38	3.76	0.19	0.18	<0.08	1.59	6.52
3200825 Drill Core	0.03	0.04	0.26	0.40	0.01	5.62	<0.01	0.15	0.04	3.73	99.16	0.09	0.55	2.27	0.43	0.11	<0.08	1.70	1.70
3200826 Drill Core	<0.01	0.03	0.29	0.32	<0.01	4.83	<0.01	0.26	1.04	3.79	98.38	0.10	0.41	3.34	0.36	0.04	<0.08	2.20	3.40
3200827 Drill Core	<0.01	0.02	0.11	0.21	<0.01	14.23	<0.01	3.16	8.29	6.61	93.13	0.03	0.07	8.69	0.06	<0.02	<0.08	2.92	17.31
3200828 Drill Core	<0.01	0.03	0.11	0.17	<0.01	18.35	<0.01	3.65	8.29	6.42	90.73	0.03	0.07	10.29	0.06	<0.02	<0.08	3.96	18.98
3200829 Drill Core	<0.01	0.03	0.11	0.16	<0.01	12.61	<0.01	2.30	6.35	5.54	93.34	0.04	0.06	7.93	0.04	<0.02	<0.08	2.44	16.48
3200830 Drill Core	<0.01	0.03	0.14	0.14	<0.01	10.21	<0.01	3.65	6.57	5.66	95.14	0.05	0.04	7.45	0.04	<0.02	<0.08	3.20	12.77
3200831 Drill Core	<0.01	0.02	<0.01	0.02	<0.01	36.46	<0.01	2.89	6.29	2.42	76.20	<0.01	0.05	13.05	0.04	<0.02	<0.08	2.88	30.51
3200832 Drill Core	<0.01	0.03	0.09	0.17	<0.01	15.45	<0.01	15.12	8.33	6.32	90.68	0.05	0.08	11.46	0.07	<0.02	<0.08	4.37	21.27
3200833 Drill Core	<0.01	0.04	0.16	0.15	<0.01	3.57	0.01	1.96	4.20	4.05	98.24	0.05	<0.02	4.44	<0.02	<0.02	<0.08	2.08	7.07
3200834 Drill Core	<0.01	0.03	0.17	0.09	<0.01	10.20	<0.01	3.03	7.09	4.98	95.17	0.04	0.03	7.46	0.03	<0.02	<0.08	3.10	13.08
3200835 Drill Core	<0.01	0.02	0.18	0.13	<0.01	8.11	<0.01	2.54	5.34	4.86	95.49	0.05	0.03	6.37	0.04	<0.02	<0.08	2.00	13.09



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QUALITY CONTROL REPORT

WHI19000263.1

	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
3200818	Drill Core	4.54	8.0	31.8	18709.4	42941	0.8	42.1	22.3	189	1.77	60	1.6	1.7	30	183.3	18.7	<0.5	182	0.01	0.016
Pulp Duplicates																					
3200796	Drill Core	3.25	2.1	89.7	448.3	232	<0.5	66.8	3.7	67	2.29	170	2.5	3.5	82	1.5	7.2	<0.5	97	<0.01	0.045
REP 3200796	QC																				
3200799	Drill Core	4.49	9.9	198.1	32885.6	120148	9.8	97.5	24.4	348	2.11	134	2.7	2.3	120	414.2	59.5	<0.5	318	0.08	0.093
REP 3200799	QC																				
3200800	Rock	0.93	1.5	136.6	24.1	86	<0.5	5.8	10.8	459	3.02	<5	1.0	2.5	101	<0.5	<0.5	<0.5	103	1.14	0.055
REP 3200800	QC																				
3200814	Drill Core	4.92	6.6	23.3	19384.1	75641	<0.5	25.9	27.2	257	1.28	54	1.1	1.3	52	322.0	17.6	<0.5	150	0.46	0.006
REP 3200814	QC																				
REP 3200822	QC		10.9	48.5	21095.4	46797	3.7	47.1	22.5	153	2.98	55	1.2	2.0	32	200.9	34.4	<0.5	257	0.07	0.019
3200828	Drill Core	4.12	6.9	45.6	38464.3	83360	17.2	76.8	19.8	43	1.28	70	4.6	1.6	60	510.6	16.2	<0.5	203	0.02	0.075
REP 3200828	QC																				
3200832	Drill Core	3.34	6.0	64.9	>40000	84325	101.0	56.9	19.5	73	1.06	94	5.3	1.2	50	644.3	67.0	<0.5	215	0.01	0.065
REP 3200832	QC																				
3200833	Drill Core	2.52	7.8	28.6	20599.9	43525	12.9	61.4	31.4	42	1.26	77	2.9	1.6	31	285.9	13.0	<0.5	217	<0.01	0.040
REP 3200833	QC																				
3200834	Drill Core	3.86	8.3	38.5	32107.2	72744	29.4	46.9	33.5	45	1.21	63	2.5	1.6	25	511.5	19.0	<0.5	170	<0.01	0.022
REP 3200834	QC																				
Core Reject Duplicates																					
3200822	Drill Core	2.20	11.6	49.3	21330.7	47988	3.7	47.8	23.1	154	3.02	56	1.2	2.0	33	201.4	34.6	<0.5	260	0.07	0.019
DUP 3200822	QC		11.0	49.0	21456.0	47331	3.8	46.6	21.9	143	2.92	55	1.3	2.1	34	210.4	34.4	<0.5	264	0.07	0.024
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
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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
3200818	Drill Core	4.7	40.1	<0.01	756	0.051	0.62	<0.01	0.01	<0.5	7.10	1.3	2.6	3.43	<5	2	59.48	2.60	2.75	0.03	<0.01
Pulp Duplicates																					
3200796	Drill Core	10.2	24.4	<0.01	1922	0.017	1.04	<0.01	0.02	0.7	<0.05	11.1	<0.5	1.72	<5	<2	74.54	6.74	3.55	0.03	0.02
REP 3200796	QC																75.29	6.83	3.60	0.03	<0.01
3200799	Drill Core	6.3	70.2	<0.01	247	0.096	1.37	<0.01	0.01	1.2	19.85	2.2	0.9	7.93	6	3	49.59	4.07	3.23	0.15	<0.01
REP 3200799	QC																				
3200800	Rock	7.3	6.8	0.87	277	0.187	2.06	0.30	0.33	<0.5	<0.05	5.3	<0.5	<0.05	6	<2	60.27	16.69	6.51	6.26	2.86
REP 3200800	QC																				
3200814	Drill Core	3.3	33.8	0.04	831	0.044	0.51	<0.01	<0.01	1.0	25.93	2.4	2.1	4.44	<5	<2	25.91	1.56	1.94	0.66	0.07
REP 3200814	QC																				
REP 3200822	QC	5.7	52.9	<0.01	1091	0.073	1.07	<0.01	0.02	0.7	11.90	2.1	2.8	4.35	<5	5	65.42	3.09	4.59	0.12	0.01
3200828	Drill Core	5.2	43.1	<0.01	248	0.055	1.25	<0.01	<0.01	0.9	18.45	3.5	1.5	5.71	<5	7	44.72	2.69	1.79	0.04	<0.01
REP 3200828	QC																44.83	2.69	1.82	0.04	<0.01
3200832	Drill Core	4.0	43.0	<0.01	258	0.046	1.01	<0.01	<0.01	0.5	94.38	2.1	1.7	7.58	<5	4	35.53	3.01	1.44	0.03	0.01
REP 3200832	QC																				
3200833	Drill Core	5.9	50.4	<0.01	574	0.062	0.42	<0.01	<0.01	<0.5	16.72	1.8	1.4	3.48	<5	5	78.26	2.48	1.72	0.01	<0.01
REP 3200833	QC																				
3200834	Drill Core	3.4	44.0	<0.01	402	0.048	0.28	<0.01	<0.01	<0.5	27.16	1.3	1.7	5.02	<5	6	62.51	2.21	1.64	0.02	<0.01
REP 3200834	QC																				
Core Reject Duplicates																					
3200822	Drill Core	5.7	51.8	<0.01	778	0.075	1.10	<0.01	0.02	0.9	11.61	2.3	2.8	4.44	<5	6	65.37	3.08	4.59	0.12	0.02
DUP 3200822	QC	5.9	49.9	<0.01	768	0.075	1.06	<0.01	0.02	0.9	11.85	2.7	2.8	4.46	<5	6	65.25	3.15	4.44	0.13	0.03
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
STD GGC-10	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	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	
3200818	Drill Core	0.06	0.05	0.15	0.13	<0.01	14.39	<0.01	1.90	4.55	5.31	94.36	0.05	0.11	7.20	0.06	<0.02	0.20	1.82	16.13		
Pulp Duplicates																						
3200796	Drill Core	0.07	0.03	0.33	0.18	<0.01	5.05	<0.01	0.03	0.02	6.37	97.56	0.03	0.41	3.09	0.23	0.17	<0.08	1.82	3.82		
REP 3200796	QC	0.07	0.03	0.32	0.20	<0.01	5.18	<0.01	0.03	0.02	6.37	98.62	0.04									
3200799	Drill Core	0.03	0.07	0.20	0.27	<0.01	9.04	0.01	3.32	12.66	11.43	98.50	0.06	1.81	10.36	1.12	0.63	0.26	2.13	24.71		
REP 3200799	QC																		0.24			
3200800	Rock	1.50	0.15	0.54	0.14	<0.01	0.07	<0.01	<0.01	<0.01	0.81	99.17	0.03	0.05	0.02	0.03	<0.02	0.09	<0.05	0.13		
REP 3200800	QC														0.05	0.03	<0.02					
3200814	Drill Core	0.04	0.06	0.09	0.03	<0.01	30.92	<0.01	1.96	7.66	4.80	81.33	0.03	0.31	12.14	0.11	<0.02	0.73	0.82	33.96		
REP 3200814	QC																				34.68	
REP 3200822	QC	0.08	0.04	0.19	0.14	<0.01	8.29	<0.01	2.19	4.95	5.91	97.38	0.06									
3200828	Drill Core	<0.01	0.03	0.11	0.17	<0.01	18.35	<0.01	3.65	8.29	6.42	90.73	0.03	0.07	10.29	0.06	<0.02	<0.08	3.96	18.98		
REP 3200828	QC	<0.01	0.03	0.11	0.17	<0.01	18.30	<0.01	3.63	8.29	6.42	90.81	0.04									
3200832	Drill Core	<0.01	0.03	0.09	0.17	<0.01	15.45	<0.01	15.12	8.33	6.32	90.68	0.05	0.08	11.46	0.07	<0.02	<0.08	4.37	21.27		
REP 3200832	QC																		<0.08			
3200833	Drill Core	<0.01	0.04	0.16	0.15	<0.01	3.57	0.01	1.96	4.20	4.05	98.24	0.05	<0.02	4.44	<0.02	<0.02	<0.08	2.08	7.07		
REP 3200833	QC														<0.02	4.47						
3200834	Drill Core	<0.01	0.03	0.17	0.09	<0.01	10.20	<0.01	3.03	7.09	4.98	95.17	0.04	0.03	7.46	0.03	<0.02	<0.08	3.10	13.08		
REP 3200834	QC																<0.02					
Core Reject Duplicates																						
3200822	Drill Core	0.08	0.04	0.19	0.14	<0.01	8.28	<0.01	2.19	4.95	5.91	97.31	0.06	0.22	6.97	0.14	<0.02	0.24	2.95	12.05		
DUP 3200822	QC	0.07	0.04	0.19	0.15	<0.01	8.60	<0.01	2.22	5.04	5.92	97.65	0.06	0.26	7.10	0.17	0.03	0.23	2.91	12.58		
Reference Materials																						
STD COO1	Standard																		2.35			
STD COO1	Standard																		2.45			
STD COO1	Standard																		2.43			
STD COO1	Standard																		2.44			
STD GGC-10	Standard																4.84					
STD GGC-10	Standard																4.94					



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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 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 OREAS133B(D)	Standard																			
STD OREAS135	Standard		8.1	308.5	18015.3	28473	54.3	38.1	31.5	4009	8.95	887	9.1	11.8	26	64.9	37.5	4.9	35	1.89
STD OREAS605	Standard		4.9	48178.0	872.8	2098	986.3	1464.4	93.1	78	3.48	1652	0.9	2.5	47	13.6	276.9	18.2	<10	0.16
STD OREAS605	Standard		4.8	49348.8	910.0	2210	957.5	1588.3	98.1	85	3.70	1656	0.9	3.8	49	13.5	285.6	18.5	<10	0.19
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.1	10632.1	238.8	743	4.9	28.4	30.5	1082	8.13	14	1.6	13.1	13	1.1	1.3	62.4	33	0.29
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD GS311-1 Expected																				
STD GS910-4 Expected																				
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 COO1 Expected																				
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



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		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
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																34.72	7.20	11.55	5.27	3.87
STD OREAS133B(D)	Standard																34.72	7.15	11.59	5.30	3.84
STD OREAS135	Standard	38.7	22.3	0.82	429	0.027	1.11	0.02	0.50	2.6	1.11	4.2	6.2	7.34	<5	<2					
STD OREAS605	Standard	6.9	28.7	0.02	392	0.010	0.69	0.03	0.12	6.9	1.73	0.9	16.1	7.29	6	71					
STD OREAS605	Standard	7.2	30.6	0.03	233	0.010	0.75	0.03	0.14	6.5	1.66	2.0	15.1	7.91	7	75					
STD OREAS72B	Standard																50.99	8.87	10.00	3.95	16.16
STD OREAS72B	Standard																51.14	8.86	9.98	3.97	16.10
STD OREAS927-AR	Standard	26.3	41.6	1.91	72	0.083	3.33	<0.01	0.30	5.6	0.15	5.3	<0.5	1.69	10	15					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.78	20.66	6.19	7.91	0.53
STD SY-4(D)	Standard																50.03	20.78	6.20	8.00	0.53
STD GS311-1 Expected																					
STD GS910-4 Expected																					
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 COO1 Expected																					
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					



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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	0.08	0.05	0.05
STD GGC-10	Standard																	4.72		
STD GGC-10	Standard																	4.64		
STD GS311-1	Standard													0.99	2.36					
STD GS311-1	Standard													0.96	2.47					
STD GS910-4	Standard													2.71	8.12					
STD GS910-4	Standard													2.67	8.58					
STD OREAS133B(D)	Standard	3.49	0.16	0.21	0.12	<0.01	0.08	0.06	5.07	11.41	0.00	86.53	<0.01							
STD OREAS133B(D)	Standard	3.47	0.16	0.21	0.12	<0.01	0.08	0.06	5.07	11.40	13.03	99.65	<0.01							
STD OREAS135	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.33	0.15	0.34	0.05	0.14	0.04	0.02	<0.01	<0.01	5.12	98.40	0.01							
STD OREAS72B	Standard	1.32	0.15	0.35	0.04	0.14	0.03	0.02	<0.01	<0.01	5.12	98.59	0.01							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																			3.28
STD RTS-3A	Standard																			3.42
STD RTS-3A	Standard																			3.39
STD RTS-3A	Standard																			3.49
STD SY-4(D)	Standard	1.67	0.11	0.28	0.14	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.13	<0.01							
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	99.50	<0.01							
STD GS311-1 Expected														1.02	2.35					
STD GS910-4 Expected														2.65	8.27					
STD OREAS927-AR Expected																				
STD COO1 Expected																		2.37		
STD RTS-3A Expected																				3.3
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																				



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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 OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086
STD GGC-10 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.5	0.5	1.9	9	<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
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		<0.5	<0.5	0.7	<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
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	2.1	2.0	34	<0.5	1.2	3.3	503	1.81	<5	1.4	2.6	24	<0.5	<0.5	<0.5	22	0.65	0.036
ROCK-WHI	Prep Blank		1.1	2.8	1.9	34	<0.5	0.7	3.4	528	1.87	<5	<0.5	2.4	21	<0.5	<0.5	<0.5	20	0.67	0.038



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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 OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD GGC-10 Expected																					
BLK	Blank																				
BLK	Blank																				
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					
SI BLK	Blank																98.60	0.30	0.02	0.02	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.60	0.32	0.03	0.02	
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																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.5	2.3	0.44	70	0.087	0.93	0.14	0.10	<0.5	<0.05	4.3	<0.5	<0.05	<5	<2	70.66	13.87	3.29	2.35	
ROCK-WHI	Prep Blank	6.4	1.9	0.45	73	0.090	0.96	0.14	0.11	<0.5	<0.05	3.9	<0.5	<0.05	<5	<2	70.84	13.92	3.38	2.31	



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Project:

MacMillan Pass

Report Date:

August 18, 2019

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Part:

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QUALITY CONTROL REPORT

WHI19000263.1

		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	0.08	0.05	0.05	
STD OREAS135 Expected																					
STD GGC-10 Expected		4.79																			
BLK	Blank														<0.02	<0.02					
BLK	Blank														<0.02	<0.02					
BLK	Blank																		<0.08		
BLK	Blank																				
SI BLK	Blank	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.01	<0.01								
BLK	Blank																		<0.08		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																		<0.02		
SI BLK	Blank	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.98	<0.01								
BLK	Blank																				
BLK	Blank																		<0.02		
Prep Wash																					
ROCK-WHI	Prep Blank	1.96	0.10	0.33	0.09	<0.01	0.07	<0.01	<0.01	<0.01	0.89	99.15	<0.01	0.12	0.03	0.11	<0.02	0.09	<0.05	0.18	
ROCK-WHI	Prep Blank	1.95	0.11	0.33	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.94	99.63	<0.01	0.15	0.02	0.10	<0.02	0.22	<0.05	0.14	