



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: September 17, 2019
Report Date: October 08, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000552.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ-19-BV-026
P.O. Number
Number of Samples: 17

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	16	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	16	Extra clean rock wash between samples in crusher			WHI
PULSW	16	Extra Wash with Silica between each sample			WHI
AQ270	17	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	17	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	17	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	17	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	17	Inorganic Carbon	0.2	Completed	VAN
TC009	17	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	17	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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Project: MacMillan Pass

Report Date: October 08, 2019

Page: 2 of 2

Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI19000552.1

	Method	Analyte	Unit	MDL	WGHT	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
3201467	Drill Core				1.67	4.1	163.5	71.3	210	2.1	119.2	11.0	586	6.58	15	4.1	2.1	466	0.7	36.0	<0.5	36	2.56	0.296
3201468	Drill Core				1.81	3.9	101.2	40.2	136	1.4	82.1	9.7	401	2.26	8	3.1	2.0	379	<0.5	17.0	<0.5	24	1.97	0.255
3201469	Drill Core				1.59	4.4	92.2	33.2	112	1.5	82.9	10.8	262	1.91	8	4.8	2.5	473	<0.5	19.9	<0.5	39	1.65	0.388
3201470	Drill Core				1.40	8.9	74.2	40.2	389	1.4	94.1	11.3	375	3.09	13	5.4	2.0	515	1.2	17.7	<0.5	62	2.02	0.408
3201471	Drill Core				1.36	7.8	112.3	51.8	408	1.5	114.7	12.0	318	4.00	18	3.4	1.8	404	1.2	21.9	<0.5	42	1.61	0.312
3201472	Drill Core				1.74	7.4	216.5	70.5	496	1.7	154.8	11.3	360	7.33	27	4.0	1.3	519	1.4	24.1	<0.5	58	1.90	0.384
3201473	Drill Core				1.89	8.3	125.3	95.9	453	1.7	177.1	15.7	290	8.16	31	4.8	1.9	485	1.6	28.5	<0.5	60	1.55	0.380
3201474	Drill Core				1.42	8.9	83.2	51.2	487	1.5	101.7	11.8	282	2.90	19	5.4	2.1	604	1.6	17.7	<0.5	57	1.72	0.454
3201475	Drill Core				1.96	6.5	173.3	84.6	870	1.8	144.3	11.6	372	8.62	32	3.8	1.2	413	2.7	25.1	<0.5	49	1.49	0.317
3201476	Drill Core				1.39	5.7	88.8	55.5	389	1.4	130.9	16.2	297	4.49	25	3.9	2.2	422	1.1	21.6	<0.5	46	1.18	0.349
3201477	Drill Core				1.48	6.5	101.8	50.9	429	2.1	115.1	13.0	415	3.53	23	4.0	1.8	405	1.1	27.8	<0.5	59	1.23	0.314
3201478	Drill Core				1.55	7.8	120.3	59.2	404	1.7	125.7	11.8	807	5.03	27	4.7	2.0	507	1.1	19.3	<0.5	73	2.16	0.355
3201479	Drill Core				1.75	5.1	90.0	52.6	268	1.4	108.6	12.6	165	4.95	23	3.2	2.6	407	0.9	26.5	<0.5	54	0.94	0.324
3201480	Rock Pulp				0.03	3.0	236.7	17037.7	29239	32.4	26.0	21.3	1731	5.26	80	1.5	6.5	21	94.5	46.8	<0.5	14	5.08	0.053
3201481	Drill Core				1.82	6.7	106.0	45.7	1404	2.0	101.7	7.6	391	2.54	15	6.9	2.9	839	4.9	27.8	<0.5	122	1.99	0.707
3201482	Drill Core				1.86	7.6	88.3	41.0	1301	1.9	95.8	8.5	395	2.58	14	6.8	2.8	769	3.8	22.9	<0.5	118	1.87	0.689
3201483	Drill Core				1.87	7.2	98.3	50.2	571	1.7	85.2	9.0	433	2.90	17	4.5	2.4	546	1.9	21.2	<0.5	84	1.66	0.406



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Vancouver British Columbia V5C 2V6 Canada

Project: MacMillan Pass

Report Date: October 08, 2019

Page: 2 of 2

Part: 2 of 3

CERTIFICATE OF ANALYSIS

WHI19000552.1

	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
3201467	Drill Core	3.4	16.4	0.88	528	0.002	0.55	<0.01	0.19	<0.5	0.69	4.0	<0.5	6.69	<5	15	53.72	11.11	9.78	3.67	1.74
3201468	Drill Core	4.1	16.6	0.70	804	0.002	0.60	<0.01	0.23	<0.5	0.40	3.9	<0.5	1.80	<5	7	61.87	13.10	3.67	2.86	1.51
3201469	Drill Core	4.6	18.8	0.41	910	0.002	0.73	<0.01	0.25	<0.5	0.47	3.4	<0.5	1.69	<5	6	64.78	13.26	3.14	2.39	1.07
3201470	Drill Core	3.4	19.5	0.57	872	0.003	0.74	<0.01	0.23	<0.5	0.65	3.4	<0.5	2.71	<5	10	63.24	11.93	4.85	2.94	1.25
3201471	Drill Core	3.3	16.4	0.48	722	0.002	0.65	<0.01	0.21	<0.5	0.81	3.2	<0.5	3.90	<5	13	62.08	12.02	6.23	2.36	1.18
3201472	Drill Core	2.1	18.3	0.60	568	0.002	0.72	<0.01	0.18	<0.5	0.80	3.5	<0.5	7.81	<5	20	56.81	10.02	10.95	2.76	1.26
3201473	Drill Core	3.8	19.7	0.46	687	0.002	0.78	<0.01	0.21	<0.5	1.03	2.9	<0.5	8.75	<5	17	56.16	11.19	12.18	2.21	1.07
3201474	Drill Core	3.6	20.1	0.43	820	0.003	0.83	<0.01	0.23	<0.5	0.82	2.5	<0.5	2.57	<5	8	64.89	12.07	4.63	2.51	1.08
3201475	Drill Core	1.9	21.7	0.49	324	0.002	0.82	<0.01	0.16	<0.5	1.38	2.9	<0.5	8.92	<5	16	57.76	9.87	13.11	2.22	1.18
3201476	Drill Core	3.4	27.2	0.46	710	0.002	0.98	<0.01	0.20	<0.5	0.87	2.9	<0.5	4.20	<5	8	62.65	12.62	6.87	1.70	1.15
3201477	Drill Core	3.3	27.3	0.58	693	0.003	0.99	<0.01	0.19	<0.5	0.76	3.7	<0.5	2.69	<5	7	65.15	12.00	5.61	1.79	1.27
3201478	Drill Core	3.1	34.3	0.92	664	0.003	1.05	<0.01	0.18	<0.5	0.88	4.6	<0.5	3.95	<5	12	59.91	11.28	7.52	3.04	1.83
3201479	Drill Core	3.9	26.8	0.43	762	0.002	1.09	<0.01	0.22	<0.5	0.88	2.5	<0.5	4.59	<5	7	62.46	12.79	7.67	1.36	1.07
3201480	Rock Pulp	24.1	13.7	2.79	133	0.018	0.96	0.01	0.72	0.6	0.96	2.8	24.7	4.59	<5	<2	44.13	8.77	8.31	7.50	5.39
3201481	Drill Core	4.6	35.3	0.69	971	0.004	1.37	<0.01	0.24	<0.5	1.47	3.5	<0.5	1.26	<5	7	60.56	13.32	4.13	2.91	1.50
3201482	Drill Core	4.8	36.6	0.69	958	0.005	1.36	<0.01	0.25	<0.5	1.51	3.4	<0.5	1.28	<5	5	61.95	13.08	4.12	2.72	1.48
3201483	Drill Core	4.4	25.6	0.66	752	0.005	1.03	<0.01	0.21	<0.5	0.86	2.9	<0.5	1.85	<5	8	64.18	12.03	4.62	2.44	1.42



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Page: 2 of 2

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI19000552.1

	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
3201467	Drill Core	2.35	0.08	0.58	0.78	0.03	0.83	0.01	0.01	0.02	11.50	96.40	0.05	4.86	6.55	3.40	0.44	3.73	5.95	1.78
3201468	Drill Core	2.80	0.06	0.70	0.61	0.03	0.94	<0.01	<0.01	0.01	9.50	97.91	0.05	5.29	1.82	3.97	0.51	2.96	1.56	0.80
3201469	Drill Core	2.83	0.04	0.70	0.94	0.03	0.97	<0.01	<0.01	0.01	8.90	99.32	0.07	5.32	1.63	4.26	0.61	1.65	1.42	0.63
3201470	Drill Core	2.53	0.06	0.63	1.01	0.03	0.87	<0.01	<0.01	0.03	9.19	98.79	0.08	4.91	2.75	3.76	0.56	2.17	2.43	0.95
3201471	Drill Core	2.56	0.05	0.65	0.74	0.03	0.87	<0.01	<0.01	0.04	9.72	98.76	0.06	4.70	3.94	3.83	0.34	1.94	3.61	0.99
3201472	Drill Core	2.05	0.06	0.49	0.98	0.02	0.70	0.01	<0.01	0.05	11.82	98.19	0.07	4.90	7.78	4.16	0.17	2.08	7.28	1.50
3201473	Drill Core	2.30	0.04	0.58	0.87	0.03	0.82	<0.01	<0.01	0.05	11.41	99.13	0.07	3.67	8.81	3.18	0.09	1.48	8.36	1.34
3201474	Drill Core	2.53	0.05	0.63	1.14	0.02	0.87	<0.01	<0.01	0.05	8.74	99.44	0.08	4.51	2.63	3.90	0.22	1.44	2.34	0.86
3201475	Drill Core	1.93	0.06	0.53	0.89	0.02	0.69	0.01	0.01	0.09	11.96	100.55	0.05	4.44	8.86	3.99	0.06	1.43	8.37	1.45
3201476	Drill Core	2.52	0.04	0.71	0.85	0.03	0.88	<0.01	<0.01	0.04	8.52	98.83	0.06	3.54	4.08	3.21	0.09	0.89	3.85	0.70
3201477	Drill Core	2.42	0.06	0.60	0.78	0.03	0.82	<0.01	<0.01	0.04	8.68	99.49	0.08	4.48	2.79	4.03	0.13	1.20	2.53	0.77
3201478	Drill Core	2.21	0.11	0.57	0.87	0.02	0.73	<0.01	<0.01	0.04	10.63	98.99	0.07	5.59	3.76	4.66	0.17	2.78	3.37	1.17
3201479	Drill Core	2.56	0.03	0.63	0.83	0.03	0.86	<0.01	<0.01	0.02	9.24	99.77	0.07	4.00	4.66	3.75	0.12	0.44	4.44	0.64
3201480	Rock Pulp	4.20	0.24	0.27	0.13	0.01	0.08	0.02	1.82	3.12	13.82	98.96	0.01	3.66	4.89	0.74	<0.02	10.71	2.55	7.02
3201481	Drill Core	2.62	0.06	0.62	1.74	0.03	0.86	<0.01	<0.01	0.15	9.96	98.70	0.12	6.39	1.28	5.68	0.40	1.11	1.06	0.66
3201482	Drill Core	2.57	0.06	0.61	1.61	0.03	0.86	<0.01	<0.01	0.13	9.63	99.09	0.12	6.29	1.31	5.63	0.38	1.05	1.09	0.66
3201483	Drill Core	2.40	0.06	0.60	1.06	0.02	0.78	<0.01	<0.01	0.06	8.78	98.67	0.10	5.13	1.93	4.38	0.27	1.74	1.68	0.75



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Project:

MacMillan Pass

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Page:

1 of 2

Part:

1 of 3

QUALITY CONTROL REPORT

WHI19000552.1

	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
3201475	Drill Core	1.96	6.5	173.3	84.6	870	1.8	144.3	11.6	372	8.62	32	3.8	1.2	413	2.7	25.1	<0.5	49	1.49	0.317
Pulp Duplicates																					
3201468	Drill Core	1.81	3.9	101.2	40.2	136	1.4	82.1	9.7	401	2.26	8	3.1	2.0	379	<0.5	17.0	<0.5	24	1.97	0.255
REP 3201468	QC																				
REP 3201469	QC																				
3201470	Drill Core	1.40	8.9	74.2	40.2	389	1.4	94.1	11.3	375	3.09	13	5.4	2.0	515	1.2	17.7	<0.5	62	2.02	0.408
REP 3201470	QC																				
3201471	Drill Core	1.36	7.8	112.3	51.8	408	1.5	114.7	12.0	318	4.00	18	3.4	1.8	404	1.2	21.9	<0.5	42	1.61	0.312
REP 3201471	QC																				
3201482	Drill Core	1.86	7.6	88.3	41.0	1301	1.9	95.8	8.5	395	2.58	14	6.8	2.8	769	3.8	22.9	<0.5	118	1.87	0.689
REP 3201482	QC		7.5	86.6	39.5	1302	1.9	92.3	7.9	382	2.59	15	6.7	2.7	810	4.3	23.1	<0.5	118	1.85	0.677
Core Reject Duplicates																					
3201469	Drill Core	1.59	4.4	92.2	33.2	112	1.5	82.9	10.8	262	1.91	8	4.8	2.5	473	<0.5	19.9	<0.5	39	1.65	0.388
DUP 3201469	QC		4.4	87.1	31.4	102	1.3	81.0	9.6	248	1.85	9	4.5	2.0	434	<0.5	18.0	<0.5	34	1.58	0.359
Reference Materials																					
STD COO1	Standard																				
STD COO2	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.7	47788.2	846.3	2155	977.3	1519.4	91.3	84	3.57	1682	0.8	2.6	47	12.5	260.9	17.6	<10	0.18	0.007
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.0	10636.4	211.0	719	6.0	31.9	30.9	1105	8.12	12	1.6	12.6	10	1.0	1.2	67.0	39	0.30	0.046
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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Page: 1 of 2

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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
3201475	Drill Core	1.9	21.7	0.49	324	0.002	0.82	<0.01	0.16	<0.5	1.38	2.9	<0.5	8.92	<5	16	57.76	9.87	13.11	2.22	1.18
Pulp Duplicates																					
3201468	Drill Core	4.1	16.6	0.70	804	0.002	0.60	<0.01	0.23	<0.5	0.40	3.9	<0.5	1.80	<5	7	61.87	13.10	3.67	2.86	1.51
REP 3201468	QC																				
REP 3201469	QC																64.87	13.30	3.16	2.40	1.08
3201470	Drill Core	3.4	19.5	0.57	872	0.003	0.74	<0.01	0.23	<0.5	0.65	3.4	<0.5	2.71	<5	10	63.24	11.93	4.85	2.94	1.25
REP 3201470	QC																				
3201471	Drill Core	3.3	16.4	0.48	722	0.002	0.65	<0.01	0.21	<0.5	0.81	3.2	<0.5	3.90	<5	13	62.08	12.02	6.23	2.36	1.18
REP 3201471	QC																				
3201482	Drill Core	4.8	36.6	0.69	958	0.005	1.36	<0.01	0.25	<0.5	1.51	3.4	<0.5	1.28	<5	5	61.95	13.08	4.12	2.72	1.48
REP 3201482	QC	4.8	35.2	0.69	970	0.005	1.36	<0.01	0.26	<0.5	1.52	3.4	<0.5	1.28	<5	7					
Core Reject Duplicates																					
3201469	Drill Core	4.6	18.8	0.41	910	0.002	0.73	<0.01	0.25	<0.5	0.47	3.4	<0.5	1.69	<5	6	64.78	13.26	3.14	2.39	1.07
DUP 3201469	QC	4.2	16.7	0.41	800	0.002	0.66	<0.01	0.22	<0.5	0.46	2.6	<0.5	1.58	<5	6	64.69	13.29	3.14	2.36	1.07
Reference Materials																					
STD COO1	Standard																				
STD COO2	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																35.10	6.98	11.63	5.35	3.85
STD OREAS605	Standard	6.7	28.9	0.02	169	0.010	0.73	0.03	0.13	5.6	1.55	1.2	14.8	7.68	7	79					
STD OREAS72B	Standard																51.16	8.94	9.79	3.96	16.03
STD OREAS927-AR	Standard	24.4	43.6	1.87	46	0.086	3.17	<0.01	0.28	4.9	0.10	4.8	<0.5	1.74	8	16					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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Page: 1 of 2

Part: 3 of 3

QUALITY CONTROL REPORT

WHI19000552.1

	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		
3201475	Drill Core	1.93	0.06	0.53	0.89	0.02	0.69	0.01	0.01	0.09	11.96	100.55	0.05	4.44	8.86	3.99	0.06	1.43	8.37	1.45			
Pulp Duplicates																							
3201468	Drill Core	2.80	0.06	0.70	0.61	0.03	0.94	<0.01	<0.01	0.01	9.50	97.91	0.05	5.29	1.82	3.97	0.51	2.96	1.56	0.80			
REP 3201468	QC	2.96																					
REP 3201469	QC	2.84	0.04	0.72	0.92	0.04	0.98	<0.01	<0.01	0.01	8.92	99.49	0.06										
3201470	Drill Core	2.53	0.06	0.63	1.01	0.03	0.87	<0.01	<0.01	0.03	9.19	98.79	0.08	4.91	2.75	3.76	0.56	2.17	2.43	0.95			
REP 3201470	QC	0.99																					
3201471	Drill Core	2.56	0.05	0.65	0.74	0.03	0.87	<0.01	<0.01	0.04	9.72	98.76	0.06	4.70	3.94	3.83	0.34	1.94	3.61	0.99			
REP 3201471	QC	0.23																					
3201482	Drill Core	2.57	0.06	0.61	1.61	0.03	0.86	<0.01	<0.01	0.13	9.63	99.09	0.12	6.29	1.31	5.63	0.38	1.05	1.09	0.66			
REP 3201482	QC	6.39													1.30								
Core Reject Duplicates																							
3201469	Drill Core	2.83	0.04	0.70	0.94	0.03	0.97	<0.01	<0.01	0.01	8.90	99.32	0.07	5.32	1.63	4.26	0.61	1.65	1.42	0.63			
DUP 3201469	QC	2.85	0.04	0.70	0.90	0.03	0.99	<0.01	<0.01	0.01	8.90	99.25	0.06	5.12	1.62	4.02	0.66	1.63	1.41	0.62			
Reference Materials																							
STD COO1	Standard																		2.46				
STD COO2	Standard																		3.19				
STD GGC-10	Standard																		4.43				
STD GGC-10	Standard																		4.80				
STD GGC-10	Standard																		4.91				
STD GGC-10	Standard																		5.00				
STD GS311-1	Standard														1.11	2.18							
STD GS910-4	Standard														2.90	7.91							
STD OREAS133B(D)	Standard	3.51	0.16	0.19	0.13	<0.01	0.06	0.06	5.08	11.44	13.03	100.02	<0.01										
STD OREAS605	Standard																						
STD OREAS72B	Standard	1.32	0.13	0.37	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.43	0.01										
STD OREAS927-AR	Standard																						
STD RTS-3A	Standard																						
STD RTS-3A	Standard																						



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Project:

MacMillan Pass

Report Date:

October 08, 2019

Page:

2 of 2

Part:

1 of 3

QUALITY CONTROL REPORT

WHI19000552.1

		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 SY-4(D)	Standard																			
STD RTS-3A 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	203	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 COO2 Expected																				
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD GGC-10 Expected																				
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																			
SI BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		1.1	3.7	1.0	30	<0.5	1.9	3.8	532	1.83	<5	<0.5	1.8	19	<0.5	<0.5	<0.5	24	0.66
ROCK-WHI	Prep Blank		0.9	3.3	0.6	29	<0.5	1.1	4.0	560	1.87	<5	<0.5	2.1	18	<0.5	<0.5	<0.5	26	0.62



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Project:

MacMillan Pass

Report Date:

October 08, 2019

Page:

2 of 2

Part:

2 of 3

QUALITY CONTROL REPORT

WHI19000552.1

		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 SY-4(D)	Standard																49.67	20.67	6.18	7.96	0.53
STD RTS-3A Expected																					
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 COO1 Expected																					
STD COO2 Expected																					
STD GS311-1 Expected																					
STD GS910-4 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 GGC-10 Expected																					
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																				
SI BLK	Blank																99.60	0.32	0.02	0.02	0.03
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	5.8	3.6	0.46	55	0.092	0.91	0.08	0.09	<0.5	<0.05	2.4	<0.5	<0.05	<5	<2	71.08	14.17	3.30	2.27	1.03
ROCK-WHI	Prep Blank	6.0	3.7	0.51	51	0.092	0.87	0.07	0.10	<0.5	<0.05	2.8	<0.5	<0.05	<5	<2	71.01	14.22	3.39	2.26	1.02



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Project:

MacMillan Pass

Report Date:

October 08, 2019

Page:

2 of 2

Part:

3 of 3

QUALITY CONTROL REPORT

WHI19000552.1

		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 SY-4(D)	Standard	1.67	0.12	0.29	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	98.94	<0.01							
STD RTS-3A Expected																				3.3
STD OREAS605 Expected																				
STD OREAS927-AR Expected																				
STD COO1 Expected																		2.37		
STD COO2 Expected																		3.43		
STD GS311-1 Expected														1.02	2.35					
STD GS910-4 Expected														2.65	8.27					
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 GGC-10 Expected																		4.79		
BLK	Blank																			<0.05
BLK	Blank																			
BLK	Blank																			
BLK	Blank													0.03	<0.02					
BLK	Blank																	<0.02		
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.00	100.00	<0.01							
BLK	Blank																	<0.02		
Prep Wash																				
ROCK-WHI	Prep Blank	1.78	0.10	0.33	0.11	0.01	0.07	<0.01	<0.01	<0.01	0.99	99.98	<0.01	0.13	0.02	0.03	<0.02	0.34	<0.05	0.28
ROCK-WHI	Prep Blank	1.85	0.10	0.35	0.10	0.01	0.07	<0.01	<0.01	<0.01	0.95	100.04	<0.01	0.13	<0.02	0.04	<0.02	0.33	<0.05	0.14