



**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: October 02, 2018  
Report Date: November 30, 2018  
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## CERTIFICATE OF ANALYSIS

WHI18001040.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-043  
P.O. Number  
Number of Samples: 95

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 60 days Invoice for Storage

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	92	Crush, split and pulverize 500g rock to 200 mesh			WHI
CRUBW	92	Extra clean rock wash between samples in crusher			WHI
PULSW	92	Extra Wash with Silica between each sample			WHI
SLBHP	3	Sort, label and box pulps			WHI
FA330	95	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	95	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	95	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	95	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	95	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	95	Analysis by Leco	0.1	Completed	VAN
SHP01	95	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS

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

WHI18001040.1

Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3208381	Drill Core	4.69	14	<3	7	3.5	58.0	32.0	170	0.5	21.6	4.3	68	3.14	5	0.7	9.0	20	<0.5	1.7	<0.5
3208382	Drill Core	7.58	12	4	8	3.5	70.8	26.0	213	<0.5	30.0	6.5	62	3.49	<5	0.6	8.7	21	<0.5	1.5	<0.5
3208383	Drill Core	8.36	14	3	9	3.0	79.6	30.8	283	<0.5	44.2	9.9	73	3.60	<5	0.7	8.5	24	0.8	1.6	<0.5
3208384	Drill Core	7.28	16	6	6	3.6	91.9	41.0	272	0.6	51.4	13.2	97	3.66	9	0.8	8.6	30	0.9	2.1	<0.5
3208385	Rock	0.90	3	<3	2	1.0	7.9	1.6	37	<0.5	1.7	4.9	654	2.20	<5	<0.5	2.1	38	<0.5	<0.5	<0.5
3208386	Drill Core	7.39	12	<3	8	3.5	118.9	39.6	294	0.5	46.7	10.0	73	3.90	8	1.0	8.6	27	<0.5	1.4	<0.5
3208387	Drill Core	8.87	13	<3	10	4.7	209.1	43.3	446	0.6	59.6	12.3	104	5.31	6	0.8	8.0	26	1.0	1.8	<0.5
3208388	Drill Core	6.33	14	<3	9	4.2	163.3	46.9	545	0.6	65.0	11.1	95	5.22	7	1.2	8.3	51	1.7	2.0	<0.5
3208389	Drill Core	7.77	13	3	9	3.3	113.0	51.1	323	0.5	40.6	9.4	68	3.43	6	0.8	8.2	38	1.3	1.2	<0.5
3208390	Drill Core	7.32	15	<3	9	3.4	94.3	42.2	371	<0.5	50.2	10.4	157	4.27	<5	0.8	8.3	40	1.5	1.4	<0.5
3208391	Rock Pulp	0.09	133	7	5	1.7	929.0	71.3	5337	2.0	19.1	38.0	1310	8.07	88	<0.5	0.7	70	13.9	4.6	<0.5
3208392	Drill Core	6.54	13	<3	8	3.5	96.7	50.5	347	<0.5	44.9	7.7	86	4.01	7	1.0	8.8	38	0.6	1.2	<0.5
3208393	Drill Core	6.23	11	4	8	3.4	78.9	57.8	468	<0.5	32.9	5.2	141	3.50	6	0.7	9.1	38	0.8	0.8	<0.5
3208394	Drill Core	7.77	8	<3	5	3.9	88.5	74.1	471	0.5	37.6	5.8	97	3.58	10	0.8	8.6	49	0.8	1.5	<0.5
3208395	Drill Core	7.30	9	<3	4	3.4	96.7	74.3	394	0.6	38.0	9.1	252	3.36	6	0.7	8.6	71	1.1	1.1	<0.5
3208396	Drill Core	2.70	8	<3	5	3.6	87.6	74.4	387	0.5	37.3	7.7	335	3.25	<5	0.8	9.0	89	1.3	0.9	<0.5
3208397	Drill Core	8.05	10	3	6	3.2	82.2	59.0	487	<0.5	41.3	8.4	432	3.86	<5	0.7	8.9	66	1.6	0.7	<0.5
3208398	Drill Core	7.29	10	<3	4	3.5	85.4	57.0	470	<0.5	40.9	9.2	326	3.72	<5	0.6	8.3	60	2.8	0.9	<0.5
3208399	Drill Core	7.36	30	<3	6	3.5	83.2	58.1	468	<0.5	42.3	9.2	425	3.68	<5	0.7	9.3	92	2.0	0.7	<0.5
3208400	Drill Core	7.24	10	4	7	3.3	81.6	48.5	527	<0.5	47.9	9.8	438	3.96	<5	0.7	8.5	94	2.7	0.7	<0.5
3208401	Drill Core	8.03	12	<3	7	3.4	90.1	46.8	820	<0.5	45.8	10.0	405	4.17	<5	0.7	8.5	53	2.8	0.6	<0.5
3208402	Drill Core	7.72	8	3	5	3.1	82.9	52.9	489	<0.5	45.8	10.0	393	3.92	<5	0.6	8.3	79	1.3	<0.5	<0.5
3208403	Drill Core	6.72	9	4	7	3.3	65.2	59.2	478	<0.5	40.8	10.2	446	3.95	6	0.6	6.8	127	1.0	0.6	<0.5
3208404	Drill Core	5.49	19	<3	6	18.7	80.2	141.9	927	1.5	100.2	19.3	249	2.85	34	1.1	7.1	62	2.9	9.7	<0.5
3208405	Drill Core	7.05	9	<3	8	4.8	39.7	59.8	41	0.7	40.0	7.1	49	1.65	15	<0.5	4.0	27	<0.5	3.4	<0.5
3208406	Drill Core	5.53	9	7	6	3.9	81.1	54.7	81	0.7	60.6	7.3	51	1.83	21	0.6	3.9	32	<0.5	3.8	<0.5
3208407	Drill Core	6.34	11	<3	3	3.3	101.1	52.4	259	0.5	43.9	5.6	162	1.24	14	0.7	3.9	36	<0.5	3.2	<0.5
3208408	Drill Core	7.74	5	9	5	1.7	53.3	103.9	142	<0.5	28.0	2.6	67	0.71	14	<0.5	1.7	30	<0.5	1.4	<0.5
3208409	Drill Core	6.58	9	<3	7	2.2	34.9	68.9	255	<0.5	36.0	4.4	75	1.13	55	<0.5	2.1	34	1.0	2.8	<0.5
3208410	Drill Core	7.92	11	7	8	4.1	90.9	55.9	131	0.7	34.1	6.3	67	1.38	34	0.6	5.6	43	1.0	4.4	<0.5



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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3208381	Drill Core	34	0.06	0.043	30.7	25.8	0.31	187	0.002	1.04	<0.01	0.20	<0.5	<0.05	2.4	<0.5	0.26	<5	<2	73.60	12.30
3208382	Drill Core	37	0.06	0.045	29.0	26.5	0.37	190	0.002	1.12	<0.01	0.20	<0.5	0.09	2.6	<0.5	0.49	<5	3	73.20	12.50
3208383	Drill Core	38	0.08	0.048	27.2	25.5	0.40	185	0.002	1.24	<0.01	0.19	<0.5	0.08	3.0	<0.5	0.66	<5	3	73.50	12.40
3208384	Drill Core	35	0.11	0.051	27.0	24.2	0.38	183	0.002	1.12	<0.01	0.21	<0.5	0.12	2.8	<0.5	1.06	<5	3	72.70	12.40
3208385	Rock	29	0.97	0.043	5.9	3.0	0.56	67	0.101	1.17	0.08	0.11	<0.5	0.05	3.8	<0.5	<0.05	<5	<2	69.70	14.10
3208386	Drill Core	45	0.11	0.061	27.8	27.0	0.46	178	0.002	1.37	<0.01	0.18	<0.5	0.07	3.1	<0.5	0.84	<5	3	72.70	12.30
3208387	Drill Core	60	0.11	0.059	25.8	29.5	0.61	172	0.003	1.69	<0.01	0.18	<0.5	0.09	4.3	<0.5	1.03	<5	5	71.10	12.00
3208388	Drill Core	59	0.17	0.098	26.6	29.0	0.54	137	0.002	1.58	<0.01	0.16	<0.5	0.19	4.8	<0.5	0.93	<5	5	70.20	12.60
3208389	Drill Core	46	0.12	0.062	28.2	26.2	0.41	170	0.002	1.29	<0.01	0.19	<0.5	0.10	3.1	<0.5	0.71	<5	3	74.10	12.00
3208390	Drill Core	56	0.15	0.079	27.3	28.3	0.54	163	0.002	1.54	<0.01	0.17	<0.5	0.10	3.3	<0.5	0.75	<5	4	72.90	11.80
3208391	Rock Pulp	143	3.63	0.056	5.0	27.2	2.10	125	0.159	3.38	0.10	0.21	1.0	0.40	21.3	0.6	1.62	9	4	51.70	13.30
3208392	Drill Core	53	0.10	0.061	29.0	29.8	0.52	177	0.003	1.56	<0.01	0.19	<0.5	0.11	3.1	<0.5	0.57	<5	3	72.60	12.40
3208393	Drill Core	45	0.14	0.060	32.7	29.2	0.43	195	0.002	1.32	<0.01	0.21	<0.5	<0.05	2.9	<0.5	0.26	<5	2	73.50	12.20
3208394	Drill Core	48	0.10	0.063	31.5	28.9	0.45	194	0.002	1.41	<0.01	0.20	<0.5	0.10	2.9	<0.5	0.41	<5	5	73.40	12.30
3208395	Drill Core	42	0.47	0.056	29.5	25.9	0.53	196	0.002	1.24	<0.01	0.19	<0.5	<0.05	3.1	<0.5	0.60	<5	3	72.90	12.10
3208396	Drill Core	41	0.62	0.056	31.5	26.3	0.58	214	0.002	1.22	<0.01	0.20	<0.5	0.11	3.4	<0.5	0.45	<5	3	72.40	12.00
3208397	Drill Core	48	0.43	0.056	30.8	30.2	0.63	199	0.002	1.48	<0.01	0.20	<0.5	0.06	3.0	<0.5	0.40	<5	2	72.00	12.20
3208398	Drill Core	50	0.33	0.062	30.9	29.3	0.57	209	0.002	1.45	<0.01	0.21	<0.5	0.11	3.6	<0.5	0.56	<5	4	72.50	12.00
3208399	Drill Core	47	0.68	0.064	31.8	28.3	0.68	217	0.002	1.44	<0.01	0.21	<0.5	0.07	3.1	<0.5	0.55	<5	3	70.40	12.50
3208400	Drill Core	49	0.64	0.060	29.6	29.3	0.69	196	0.003	1.47	<0.01	0.20	<0.5	0.08	3.0	<0.5	0.60	<5	3	71.30	12.10
3208401	Drill Core	50	0.32	0.061	30.3	31.4	0.60	182	0.002	1.50	<0.01	0.18	<0.5	<0.05	3.6	<0.5	0.63	<5	3	72.00	11.90
3208402	Drill Core	48	0.58	0.061	30.3	29.0	0.68	187	0.002	1.45	<0.01	0.18	<0.5	0.05	3.5	<0.5	0.68	<5	3	71.40	12.00
3208403	Drill Core	48	0.95	0.058	23.6	24.5	0.76	171	0.002	1.28	<0.01	0.17	<0.5	0.08	3.6	<0.5	0.91	<5	3	73.60	9.46
3208404	Drill Core	20	0.33	0.050	23.9	10.0	0.19	192	0.002	0.52	<0.01	0.18	<0.5	0.26	1.8	<0.5	1.85	<5	4	73.40	10.30
3208405	Drill Core	10	0.14	0.061	12.9	4.6	<0.01	154	0.001	0.25	<0.01	0.13	<0.5	0.09	1.1	<0.5	1.35	<5	3	85.80	6.12
3208406	Drill Core	11	0.11	0.056	13.3	5.0	<0.01	156	0.001	0.32	<0.01	0.13	<0.5	0.09	1.0	<0.5	1.58	<5	4	85.40	6.39
3208407	Drill Core	13	0.10	0.058	12.3	7.2	0.03	106	<0.001	0.38	<0.01	0.09	<0.5	<0.05	1.0	<0.5	0.62	<5	3	88.00	5.50
3208408	Drill Core	<10	0.13	0.062	7.0	5.7	0.02	87	<0.001	0.23	<0.01	0.06	<0.5	<0.05	0.9	<0.5	0.26	<5	3	93.50	3.02
3208409	Drill Core	<10	0.11	0.059	7.4	5.5	0.03	123	<0.001	0.23	<0.01	0.09	<0.5	0.11	0.9	<0.5	0.64	<5	2	90.20	4.04
3208410	Drill Core	16	0.11	0.056	19.2	6.2	0.02	212	0.001	0.34	<0.01	0.15	<0.5	0.10	1.6	<0.5	1.09	<5	4	83.00	8.27



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3208381	Drill Core	4.47	0.07	0.73	2.75	0.03	0.70	0.11	0.01	0.24	<0.01	<0.01	0.01	3.61	98.76	<0.02	1.10	0.25
3208382	Drill Core	4.95	0.09	0.85	2.71	0.03	0.70	0.11	0.01	0.23	<0.01	<0.01	0.02	3.66	99.19	<0.02	1.09	0.45
3208383	Drill Core	5.18	0.13	0.90	2.68	0.03	0.68	0.13	0.01	0.24	<0.01	<0.01	0.03	3.65	99.70	<0.02	1.09	0.63
3208384	Drill Core	5.24	0.18	0.87	2.73	0.03	0.68	0.12	<0.01	0.23	<0.01	<0.01	0.03	3.85	99.24	0.07	1.14	0.96
3208385	Rock	3.63	2.69	1.12	1.89	0.12	0.38	0.10	<0.01	0.08	<0.01	<0.01	<0.01	1.46	99.58	0.37	0.22	0.04
3208386	Drill Core	5.52	0.16	0.98	2.57	0.03	0.67	0.15	0.01	0.22	<0.01	<0.01	0.03	3.82	99.31	0.02	1.10	0.80
3208387	Drill Core	7.44	0.16	1.23	2.35	0.03	0.64	0.14	0.02	0.21	0.02	<0.01	0.04	4.25	99.75	<0.02	1.07	0.95
3208388	Drill Core	7.30	0.24	1.12	2.47	0.03	0.67	0.23	0.01	0.21	0.01	<0.01	0.06	4.23	99.54	<0.02	1.13	0.88
3208389	Drill Core	4.92	0.19	0.92	2.53	0.03	0.66	0.16	0.02	0.22	0.01	<0.01	0.03	3.74	99.66	0.03	1.20	0.65
3208390	Drill Core	6.02	0.23	1.09	2.34	0.04	0.64	0.19	0.02	0.21	<0.01	<0.01	0.03	3.97	99.61	0.06	1.18	0.70
3208391	Rock Pulp	13.00	6.90	3.96	0.51	0.21	0.61	0.13	<0.01	0.02	0.09	<0.01	0.54	5.78	99.45	2.80	1.05	1.51
3208392	Drill Core	5.74	0.18	1.08	2.50	0.03	0.68	0.15	0.01	0.22	<0.01	<0.01	0.03	3.84	99.63	0.02	1.15	0.55
3208393	Drill Core	5.03	0.18	0.93	2.58	0.04	0.67	0.14	0.01	0.23	<0.01	<0.01	0.04	3.61	99.30	0.04	1.19	0.24
3208394	Drill Core	5.12	0.17	0.99	2.54	0.03	0.68	0.16	0.01	0.22	<0.01	<0.01	0.04	3.74	99.54	0.04	1.17	0.38
3208395	Drill Core	4.88	0.64	1.11	2.59	0.05	0.67	0.13	0.01	0.24	<0.01	<0.01	0.04	4.23	99.75	0.66	1.38	0.56
3208396	Drill Core	4.73	0.84	1.19	2.57	0.06	0.67	0.13	0.01	0.23	<0.01	<0.01	0.04	4.51	99.53	0.98	1.35	0.40
3208397	Drill Core	5.61	0.60	1.28	2.50	0.07	0.68	0.13	0.01	0.23	<0.01	0.01	0.05	4.32	99.84	0.71	1.36	0.38
3208398	Drill Core	5.37	0.49	1.16	2.48	0.06	0.66	0.16	0.01	0.22	<0.01	<0.01	0.05	4.21	99.52	0.52	1.37	0.52
3208399	Drill Core	5.39	0.94	1.37	2.59	0.07	0.69	0.15	0.01	0.23	<0.01	<0.01	0.05	4.92	99.46	1.17	1.59	0.52
3208400	Drill Core	5.77	0.89	1.38	2.45	0.07	0.67	0.14	0.01	0.22	<0.01	<0.01	0.05	4.89	100.12	1.16	1.44	0.54
3208401	Drill Core	5.96	0.43	1.20	2.39	0.07	0.69	0.15	0.01	0.23	<0.01	<0.01	0.08	4.32	99.59	0.73	1.35	0.56
3208402	Drill Core	5.68	0.80	1.34	2.43	0.07	0.69	0.15	0.02	0.23	<0.01	<0.01	0.05	4.81	99.82	1.05	1.56	0.64
3208403	Drill Core	5.65	1.28	1.45	1.86	0.07	0.54	0.14	<0.01	0.18	<0.01	<0.01	0.04	4.94	99.36	1.55	1.52	0.82
3208404	Drill Core	4.14	0.50	0.56	2.44	0.05	0.53	0.13	<0.01	0.24	<0.01	0.01	0.09	7.10	99.66	0.68	4.18	1.76
3208405	Drill Core	2.43	0.17	0.15	1.45	0.03	0.35	0.13	<0.01	0.16	<0.01	<0.01	<0.01	2.85	99.74	<0.02	1.18	1.25
3208406	Drill Core	2.66	0.15	0.15	1.45	0.03	0.35	0.12	<0.01	0.17	<0.01	<0.01	<0.01	2.80	99.79	0.04	0.91	1.46
3208407	Drill Core	1.88	0.15	0.17	1.13	0.04	0.30	0.13	<0.01	0.14	<0.01	<0.01	0.02	2.38	99.93	0.25	0.98	0.58
3208408	Drill Core	1.13	0.18	0.10	0.60	0.03	0.15	0.15	<0.01	0.08	<0.01	0.01	0.01	1.07	100.10	0.10	0.46	0.24
3208409	Drill Core	1.70	0.18	0.15	0.86	0.03	0.21	0.14	<0.01	0.12	<0.01	<0.01	0.02	2.03	99.76	0.15	1.14	0.62
3208410	Drill Core	2.15	0.17	0.22	1.81	0.03	0.48	0.15	0.01	0.26	<0.01	<0.01	0.01	3.14	99.84	0.12	1.16	1.03



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Project:

MacMillan Pass

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3208411	Drill Core	7.31	13	5	7	5.3	66.2	56.8	143	0.6	53.7	7.8	126	1.84	24	0.7	4.5	49	1.4	6.1	<0.5
3208412	Drill Core	6.82	15	4	7	8.2	155.2	97.5	182	0.9	81.6	11.4	180	2.49	55	1.3	3.7	67	1.4	10.5	<0.5
3208413	Drill Core	7.16	15	<3	11	6.2	60.6	54.8	78	0.8	56.7	10.8	234	2.44	27	0.6	4.6	77	<0.5	6.9	<0.5
3208414	Drill Core	7.14	11	<3	10	3.3	44.3	35.9	80	0.6	38.9	6.1	411	2.62	21	<0.5	3.7	162	<0.5	4.2	<0.5
3208415	Drill Core	7.78	25	<3	8	16.6	60.5	140.8	345	2.1	92.1	11.4	288	3.26	46	1.0	4.2	112	2.2	18.3	<0.5
3208416	Rock	0.88	2	<3	2	0.8	6.2	1.5	45	<0.5	2.0	6.1	752	2.25	<5	<0.5	1.9	36	<0.5	<0.5	<0.5
3208417	Drill Core	7.92	10	<3	8	3.2	67.1	54.5	276	0.5	40.6	6.3	199	1.74	13	0.6	3.7	74	1.8	3.0	<0.5
3208418	Drill Core	7.73	13	<3	11	4.3	110.8	80.1	404	0.8	47.3	8.2	214	2.10	15	1.0	5.7	88	1.7	4.2	<0.5
3208419	Drill Core	5.08	15	3	10	4.7	70.4	67.4	478	0.8	47.4	8.2	225	2.15	14	0.8	5.3	75	2.1	4.3	<0.5
3208420	Drill Core	7.29	15	<3	9	5.8	112.0	75.7	680	0.9	54.3	8.0	98	1.61	14	0.8	6.2	44	3.3	4.7	<0.5
3208421	Drill Core	5.99	8	7	11	3.5	94.1	46.9	578	<0.5	35.2	5.7	221	2.17	12	0.8	6.1	86	2.9	1.7	<0.5
3208422	Drill Core	7.49	13	<3	4	7.4	72.5	115.8	463	0.8	73.3	12.3	300	2.80	20	0.9	5.7	106	2.0	5.4	<0.5
3208423	Drill Core	6.21	13	<3	9	6.0	42.9	76.9	65	0.7	71.9	8.9	237	2.64	19	0.8	4.6	80	<0.5	4.9	<0.5
3208424	Drill Core	7.88	11	<3	6	4.1	83.0	74.5	431	0.6	43.7	8.1	312	3.06	14	0.7	5.2	88	2.3	3.2	<0.5
3208425	Drill Core	6.84	9	4	8	3.6	98.0	88.1	287	0.5	34.1	6.5	128	1.82	11	0.7	5.6	42	1.3	2.0	<0.5
3208426	Drill Core	7.07	10	4	11	3.9	61.0	96.5	265	0.5	42.1	8.3	120	1.93	18	0.7	5.5	37	1.4	2.9	<0.5
3208427	Drill Core	8.49	16	<3	5	24.4	368.7	235.3	154	2.7	128.2	16.6	171	3.66	62	1.8	6.6	70	1.7	21.1	<0.5
3208428	Drill Core	7.94	11	<3	5	7.1	82.0	88.5	471	0.9	56.1	8.6	141	1.90	26	0.9	5.8	53	2.4	7.9	<0.5
3208429	Drill Core	3.34	11	<3	7	6.6	75.6	80.8	456	0.9	49.7	8.2	138	1.89	23	0.9	5.4	51	2.1	6.9	<0.5
3208430	Drill Core	7.14	10	<3	7	3.1	55.4	63.2	329	<0.5	38.4	7.2	202	1.91	14	0.6	3.9	86	1.9	3.4	<0.5
3208431	Drill Core	7.25	10	<3	4	3.8	77.9	87.3	649	0.5	31.6	6.3	218	1.68	13	0.7	6.2	74	3.5	3.1	<0.5
3208432	Drill Core	8.13	13	5	8	4.2	59.8	117.9	491	0.6	41.9	7.3	204	1.98	63	0.7	4.6	91	3.4	4.1	<0.5
3208433	Drill Core	7.30	13	4	12	4.3	40.6	104.7	261	<0.5	43.3	8.3	224	1.89	42	0.9	6.9	100	0.9	4.5	<0.5
3208434	Rock Pulp	0.09	481	<3	3	2.6	12972.4	32.3	1305	3.0	14.3	120.7	1194	11.45	60	<0.5	0.6	56	3.6	2.9	1.4
3208435	Drill Core	6.36	17	<3	5	18.5	99.6	223.5	279	2.6	82.1	12.9	235	4.65	60	1.5	5.8	97	0.6	23.1	<0.5
3208436	Drill Core	7.33	12	<3	8	23.9	89.4	198.3	433	2.1	91.9	12.7	226	3.46	47	3.2	6.3	204	1.2	21.1	<0.5
3208437	Drill Core	6.89	13	<3	8	23.6	96.2	222.3	644	2.3	102.4	12.4	165	3.63	73	2.5	5.6	66	2.7	21.5	<0.5
3208438	Drill Core	7.32	15	<3	7	22.9	102.6	230.0	1194	2.1	95.4	13.1	290	3.88	50	2.0	5.5	61	4.7	20.0	<0.5
3208439	Drill Core	6.99	13	<3	5	17.8	88.3	211.7	773	1.3	98.7	13.7	191	3.79	44	1.8	5.4	68	5.2	17.0	<0.5
3208440	Drill Core	5.51	13	<3	4	26.6	84.0	212.4	1042	1.6	94.8	14.6	198	3.43	49	2.1	6.1	59	2.2	21.1	<0.5



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3208411	Drill Core	18	0.25	0.048	16.1	7.3	0.11	205	0.001	0.35	<0.01	0.15	<0.5	0.11	1.8	<0.5	1.28	<5	4	83.20	6.93
3208412	Drill Core	23	0.41	0.054	13.8	7.8	0.18	179	0.001	0.53	<0.01	0.12	<0.5	0.14	2.2	<0.5	1.76	<5	5	80.50	7.18
3208413	Drill Core	23	0.71	0.047	16.5	7.3	0.26	195	0.001	0.27	<0.01	0.14	<0.5	0.15	2.5	<0.5	1.52	<5	4	80.40	7.22
3208414	Drill Core	28	1.46	0.035	14.6	9.0	0.51	215	0.002	0.28	<0.01	0.14	<0.5	0.06	3.0	<0.5	1.45	<5	4	79.80	5.79
3208415	Drill Core	26	1.12	0.046	14.1	9.0	0.40	221	0.001	0.28	<0.01	0.14	<0.5	0.29	2.5	0.8	2.33	<5	6	75.30	7.38
3208416	Rock	32	1.03	0.046	5.9	3.3	0.59	60	0.113	1.18	0.07	0.11	<0.5	<0.05	4.3	<0.5	0.06	<5	<2	69.20	14.00
3208417	Drill Core	22	0.63	0.057	14.2	8.7	0.27	232	0.001	0.29	<0.01	0.14	<0.5	0.09	2.7	<0.5	0.89	<5	4	84.10	5.97
3208418	Drill Core	35	0.79	0.101	22.7	10.3	0.29	320	0.002	0.40	<0.01	0.19	<0.5	0.14	2.9	<0.5	1.13	<5	4	77.50	8.90
3208419	Drill Core	38	0.78	0.056	20.7	11.9	0.33	304	0.002	0.46	<0.01	0.17	<0.5	0.16	3.0	<0.5	1.10	<5	5	78.10	8.81
3208420	Drill Core	29	0.33	0.070	23.2	9.7	0.15	335	0.001	0.45	<0.01	0.19	<0.5	0.15	2.2	<0.5	1.06	<5	4	79.10	9.54
3208421	Drill Core	38	0.83	0.077	24.2	16.6	0.44	284	0.002	0.65	<0.01	0.18	<0.5	0.12	3.3	<0.5	0.84	<5	4	76.00	9.66
3208422	Drill Core	36	1.07	0.058	20.5	13.1	0.45	296	0.001	0.50	<0.01	0.17	<0.5	0.11	3.0	<0.5	1.55	<5	8	76.10	8.54
3208423	Drill Core	28	0.67	0.064	17.5	10.1	0.29	295	0.001	0.40	<0.01	0.16	<0.5	0.08	3.0	<0.5	1.68	<5	6	79.60	7.51
3208424	Drill Core	52	0.83	0.069	17.6	17.3	0.44	292	0.002	0.64	<0.01	0.16	<0.5	0.12	3.7	<0.5	1.42	<5	4	77.40	7.89
3208425	Drill Core	30	0.34	0.075	22.4	12.3	0.20	359	0.002	0.51	<0.01	0.19	<0.5	0.07	2.4	<0.5	0.88	<5	3	80.60	8.93
3208426	Drill Core	23	0.21	0.068	23.0	8.4	0.13	357	0.002	0.41	<0.01	0.18	<0.5	0.09	2.0	<0.5	1.16	<5	3	81.10	8.56
3208427	Drill Core	27	0.48	0.082	21.7	10.4	0.17	379	0.002	0.47	<0.01	0.20	<0.5	0.26	3.1	1.3	3.35	<5	7	70.90	9.84
3208428	Drill Core	28	0.46	0.063	20.2	9.4	0.16	354	0.002	0.38	<0.01	0.17	<0.5	0.19	2.4	<0.5	1.40	<5	4	79.30	8.69
3208429	Drill Core	28	0.38	0.068	20.8	8.9	0.15	397	0.002	0.41	<0.01	0.18	<0.5	0.09	2.5	<0.5	1.32	<5	2	79.30	8.67
3208430	Drill Core	28	0.79	0.063	14.9	8.8	0.27	293	0.001	0.29	<0.01	0.13	<0.5	0.07	3.2	<0.5	1.10	<5	3	82.40	6.56
3208431	Drill Core	37	0.72	0.093	24.5	10.0	0.23	427	0.002	0.41	<0.01	0.19	<0.5	0.09	3.8	<0.5	0.86	<5	4	78.00	9.47
3208432	Drill Core	30	0.60	0.082	18.8	7.9	0.20	329	0.002	0.35	<0.01	0.15	<0.5	0.11	2.9	<0.5	1.40	<5	6	79.80	8.18
3208433	Drill Core	28	0.62	0.092	25.6	10.4	0.22	382	0.002	0.41	<0.01	0.18	<0.5	<0.05	2.1	<0.5	1.21	<5	4	78.60	9.21
3208434	Rock Pulp	133	2.93	0.047	3.6	26.4	1.76	152	0.183	3.13	0.11	0.24	1.0	0.28	16.3	0.6	4.62	8	42	47.40	12.20
3208435	Drill Core	30	0.56	0.065	17.6	8.9	0.17	356	0.001	0.40	<0.01	0.16	<0.5	0.35	2.6	0.7	4.11	<5	6	69.50	9.51
3208436	Drill Core	54	1.27	0.452	35.7	14.7	0.11	543	0.003	0.60	<0.01	0.22	<0.5	0.29	2.9	0.9	3.03	<5	5	69.90	9.56
3208437	Drill Core	47	0.35	0.085	18.3	11.2	0.08	423	0.002	0.53	<0.01	0.17	<0.5	0.29	2.3	0.9	3.38	<5	4	72.60	9.13
3208438	Drill Core	34	0.41	0.083	18.6	10.0	0.13	383	0.002	0.48	<0.01	0.15	<0.5	0.25	2.1	0.7	3.25	<5	6	72.00	9.36
3208439	Drill Core	36	0.26	0.088	18.5	9.7	0.06	484	0.002	0.49	<0.01	0.18	<0.5	0.21	2.6	0.8	3.44	<5	6	73.60	9.23
3208440	Drill Core	33	0.25	0.086	22.4	10.0	0.06	552	0.002	0.45	<0.01	0.19	<0.5	0.25	2.3	1.0	3.08	<5	5	72.70	9.76



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**Project:** MacMillan Pass  
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# CERTIFICATE OF ANALYSIS

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3208411 Drill Core	2.70	0.36	0.31	1.54	0.04	0.39	0.11	<0.01	0.21	<0.01	<0.01	0.01	3.53	99.45	0.47	1.40	1.20
3208412 Drill Core	3.61	0.62	0.43	1.50	0.05	0.36	0.12	<0.01	0.21	0.01	<0.01	0.02	4.79	99.53	0.92	1.87	1.60
3208413 Drill Core	3.51	0.96	0.59	1.61	0.05	0.40	0.10	<0.01	0.24	<0.01	<0.01	<0.01	4.43	99.70	1.30	1.76	1.44
3208414 Drill Core	3.57	1.88	0.94	1.28	0.06	0.33	0.08	<0.01	0.20	<0.01	<0.01	<0.01	4.54	98.60	2.41	1.81	1.12
3208415 Drill Core	4.66	1.50	0.83	1.64	0.06	0.39	0.11	<0.01	0.26	<0.01	0.01	0.03	6.46	98.79	2.19	3.37	2.20
3208416 Rock	3.81	2.79	1.17	1.87	0.13	0.38	0.10	<0.01	0.08	<0.01	<0.01	<0.01	1.44	99.26	0.47	0.20	0.04
3208417 Drill Core	2.60	0.87	0.55	1.29	0.05	0.32	0.12	<0.01	0.22	<0.01	<0.01	0.02	3.50	99.75	1.28	1.46	0.82
3208418 Drill Core	3.17	1.08	0.70	1.96	0.05	0.51	0.22	0.01	0.34	0.01	<0.01	0.04	4.61	99.28	1.50	1.84	1.04
3208419 Drill Core	3.25	1.08	0.75	1.93	0.05	0.50	0.14	0.01	0.34	0.02	<0.01	0.05	4.63	99.85	1.56	1.90	1.07
3208420 Drill Core	2.50	0.51	0.47	2.15	0.03	0.55	0.17	0.01	0.37	0.01	<0.01	0.09	3.96	99.66	0.59	1.67	1.01
3208421 Drill Core	3.30	1.14	0.93	2.06	0.05	0.57	0.17	0.01	0.35	<0.01	<0.01	0.06	4.56	99.04	1.51	1.83	0.80
3208422 Drill Core	4.10	1.46	0.93	1.86	0.06	0.48	0.13	0.01	0.33	<0.01	0.01	0.04	5.53	99.76	2.02	2.44	1.43
3208423 Drill Core	3.82	0.92	0.63	1.64	0.05	0.41	0.13	<0.01	0.32	<0.01	0.01	<0.01	4.54	99.72	1.30	1.94	1.58
3208424 Drill Core	4.38	1.12	0.90	1.64	0.06	0.44	0.15	<0.01	0.31	<0.01	<0.01	0.04	4.88	99.37	1.74	1.95	1.33
3208425 Drill Core	2.70	0.46	0.51	1.95	0.04	0.50	0.17	0.01	0.38	<0.01	<0.01	0.03	3.61	100.07	0.61	1.37	0.81
3208426 Drill Core	2.82	0.29	0.38	1.89	0.04	0.48	0.15	<0.01	0.38	<0.01	<0.01	0.02	3.49	99.78	0.51	1.34	1.08
3208427 Drill Core	5.28	0.66	0.48	2.20	0.04	0.49	0.17	0.01	0.44	0.03	0.02	0.01	8.98	99.75	0.79	5.30	3.16
3208428 Drill Core	2.89	0.64	0.48	1.93	0.04	0.49	0.16	0.01	0.40	0.01	0.01	0.05	4.70	99.95	0.81	2.34	1.35
3208429 Drill Core	2.76	0.59	0.46	1.95	0.04	0.49	0.15	<0.01	0.40	<0.01	<0.01	0.04	4.45	99.47	0.79	2.18	1.24
3208430 Drill Core	2.83	1.06	0.61	1.46	0.05	0.37	0.14	<0.01	0.31	<0.01	<0.01	0.03	3.81	99.76	1.44	1.53	0.98
3208431 Drill Core	2.58	1.02	0.61	2.12	0.05	0.54	0.22	0.01	0.47	<0.01	0.01	0.07	4.17	99.51	1.30	1.69	0.80
3208432 Drill Core	2.88	0.81	0.54	1.79	0.05	0.46	0.19	0.01	0.40	<0.01	0.01	0.05	4.09	99.41	0.98	1.68	1.26
3208433 Drill Core	2.96	0.85	0.59	2.03	0.05	0.54	0.20	0.01	0.45	<0.01	0.01	0.02	4.21	99.89	0.91	1.68	1.10
3208434 Rock Pulp	18.30	6.31	3.44	0.48	0.21	0.55	0.10	<0.01	0.02	1.31	<0.01	0.14	5.23	98.29	2.01	0.70	4.36
3208435 Drill Core	6.53	0.77	0.51	2.11	0.05	0.49	0.15	0.01	0.47	<0.01	0.02	0.03	9.11	99.43	0.79	4.43	3.93
3208436 Drill Core	4.97	1.69	0.40	2.10	0.05	0.48	1.03	0.01	0.48	<0.01	0.02	0.04	8.54	99.45	0.68	4.86	2.91
3208437 Drill Core	5.13	0.49	0.37	1.99	0.04	0.45	0.21	0.02	0.46	<0.01	0.02	0.07	8.66	99.82	0.47	4.80	3.15
3208438 Drill Core	5.56	0.60	0.46	2.05	0.06	0.49	0.19	0.01	0.50	<0.01	0.02	0.12	8.42	100.04	0.82	4.67	3.05
3208439 Drill Core	5.40	0.38	0.35	2.02	0.05	0.48	0.20	0.01	0.56	<0.01	0.02	0.08	7.44	100.02	0.42	3.80	3.24
3208440 Drill Core	4.93	0.36	0.36	2.19	0.05	0.52	0.21	0.01	0.64	<0.01	0.02	0.11	8.11	100.20	0.42	4.69	2.90





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Project:

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3208441	Drill Core	6.55	13	<3	6	20.2	103.1	121.3	703	0.8	69.2	9.5	335	3.30	32	1.2	4.3	172	5.3	11.2	<0.5
3208442	Drill Core	6.81	22	<3	6	34.9	110.2	258.3	287	2.0	112.9	15.5	117	3.19	69	1.9	6.3	99	2.7	22.0	<0.5
3208443	Drill Core	6.07	11	<3	7	9.4	66.5	105.8	705	0.7	67.4	9.3	233	3.84	28	1.1	3.7	50	2.5	7.6	<0.5
3208444	Drill Core	5.53	11	<3	7	3.6	57.0	67.4	2704	0.5	53.5	10.3	876	4.83	17	1.0	4.6	238	6.4	4.1	<0.5
3208445	Drill Core	7.39	8	<3	5	3.3	58.4	43.8	2596	<0.5	47.0	8.4	451	3.45	15	1.3	5.0	98	5.1	3.5	<0.5
3208446	Drill Core	6.91	11	8	<2	11.6	31.5	77.2	729	0.5	53.1	8.4	115	2.84	26	1.2	4.5	66	2.2	6.9	<0.5
3208447	Drill Core	6.89	16	<3	4	11.8	67.3	153.2	792	1.1	68.2	10.1	190	3.37	33	1.4	4.7	89	3.8	12.4	<0.5
3208448	Drill Core	6.56	14	<3	4	8.4	55.6	71.2	1550	0.8	60.0	8.0	215	2.70	26	0.9	4.1	34	2.1	10.5	<0.5
3208449	Drill Core	6.22	11	5	<2	11.5	54.8	85.7	713	0.6	59.5	7.9	200	2.94	36	1.1	3.3	53	2.0	8.7	<0.5
3208450	Drill Core	5.87	10	<3	<2	9.8	36.6	58.0	35	0.6	43.0	6.6	48	2.06	34	0.8	3.5	45	<0.5	7.5	<0.5
3208451	Drill Core	6.85	10	<3	2	3.2	48.0	38.7	1194	<0.5	56.4	7.7	214	2.33	17	<0.5	2.6	29	0.6	5.1	<0.5
3208452	Drill Core	6.22	8	<3	2	2.8	34.4	44.2	112	<0.5	38.2	6.0	57	1.72	19	0.6	3.2	26	0.7	5.0	<0.5
3208453	Drill Core	4.52	11	7	3	5.4	44.1	60.8	33	0.5	40.1	6.2	45	2.22	20	1.2	3.0	36	0.6	6.2	<0.5
3208454	Drill Core	5.66	13	<3	<2	35.5	89.2	189.1	116	1.7	87.0	10.6	76	4.16	72	2.9	5.3	47	3.8	22.0	<0.5
3208455	Drill Core	7.25	13	6	3	20.4	72.5	151.2	78	1.5	75.9	10.8	67	3.03	52	2.3	5.4	34	3.6	17.1	<0.5
3208456	Drill Core	6.41	12	<3	<2	14.9	65.3	143.9	1180	1.4	66.9	11.0	224	3.56	45	2.2	4.2	34	4.4	14.2	<0.5
3208457	Drill Core	7.04	11	4	3	23.5	56.9	102.8	58	0.9	71.1	9.7	60	2.32	47	2.1	5.2	36	2.6	12.8	<0.5
3208458	Rock	1.46	3	<3	<2	0.9	5.8	3.1	47	<0.5	2.7	5.8	773	2.38	<5	<0.5	2.1	39	<0.5	<0.5	<0.5
3208459	Drill Core	8.04	10	<3	7	17.5	47.9	101.8	65	0.7	57.5	9.0	69	2.05	39	2.0	5.5	29	1.8	9.4	<0.5
3208460	Drill Core	7.27	8	<3	7	8.8	44.7	81.4	91	0.6	57.0	7.4	76	2.61	31	1.3	3.9	30	14.6	5.5	<0.5
3208461	Drill Core	7.26	8	9	3	14.2	51.7	117.1	102	0.7	75.2	9.3	90	2.88	44	1.5	4.4	41	1.5	6.9	<0.5
3208462	Drill Core	3.82	9	8	4	20.2	57.6	117.5	89	0.8	76.4	8.4	67	2.20	44	2.0	5.3	32	8.2	7.1	<0.5
3208463	Drill Core	6.86	4	<3	<2	2.1	41.8	63.2	147	<0.5	40.3	5.5	207	4.73	35	1.0	1.8	69	15.7	8.4	<0.5
3208464	Drill Core	6.25	5	<3	<2	2.2	34.5	95.1	105	<0.5	40.9	6.0	60	3.78	39	0.8	2.3	61	5.2	5.9	<0.5
3208465	Drill Core	9.35	7	5	4	2.6	42.4	114.0	3078	0.7	36.4	5.7	214	4.81	32	0.9	2.4	49	18.9	6.5	<0.5
3208466	Drill Core	8.96	12	6	5	7.7	76.2	59.4	134	1.0	67.4	11.7	50	2.72	32	1.5	7.6	46	0.6	8.5	<0.5
3208467	Drill Core	8.56	10	11	8	5.1	85.1	83.4	307	0.8	50.2	10.3	389	5.23	26	1.3	6.6	37	<0.5	5.8	<0.5
3208468	Rock Pulp	0.09	132	<3	4	1.6	910.3	66.3	5192	1.9	19.1	37.9	1277	7.82	87	<0.5	0.7	69	13.7	4.4	<0.5
3208469	Drill Core	7.87	11	6	6	7.2	76.1	88.0	99	1.0	82.6	12.5	47	5.30	40	1.6	7.3	49	0.6	9.5	<0.5
3208470	Drill Core	7.19	11	<3	6	5.4	91.1	81.5	105	0.8	66.1	12.3	71	3.93	30	1.5	8.2	50	<0.5	9.1	<0.5





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Project:

MacMillan Pass

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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	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3208441	Drill Core	38	1.41	0.060	15.7	10.0	0.44	451	0.002	0.34	<0.01	0.15	<0.5	0.21	2.4	0.8	2.63	<5	4	74.20	7.36
3208442	Drill Core	34	0.31	0.112	21.5	12.6	0.05	580	0.002	0.47	<0.01	0.20	<0.5	0.31	2.2	1.5	3.18	<5	4	71.80	10.40
3208443	Drill Core	23	0.09	0.060	11.8	8.1	0.01	373	0.001	0.36	<0.01	0.12	<0.5	0.14	2.2	0.6	3.36	<5	4	81.20	5.94
3208444	Drill Core	39	1.59	0.097	15.7	10.5	0.50	499	0.002	0.47	<0.01	0.16	<0.5	0.14	4.0	<0.5	3.31	<5	3	70.00	7.53
3208445	Drill Core	35	0.36	0.095	17.7	11.6	0.08	504	0.002	0.51	<0.01	0.16	<0.5	0.06	2.7	<0.5	2.42	<5	<2	77.70	8.02
3208446	Drill Core	29	0.10	0.080	15.8	10.2	<0.01	473	0.002	0.46	<0.01	0.15	<0.5	0.14	2.0	0.6	2.59	<5	3	80.00	7.41
3208447	Drill Core	28	0.15	0.107	16.0	12.3	0.01	479	0.002	0.47	<0.01	0.14	<0.5	0.18	1.6	1.0	2.93	<5	5	78.90	7.43
3208448	Drill Core	28	0.12	0.062	17.0	8.3	0.01	531	0.002	0.36	<0.01	0.15	<0.5	0.14	1.6	0.6	2.13	<5	6	80.90	7.23
3208449	Drill Core	25	0.13	0.087	12.7	10.9	<0.01	357	0.001	0.34	<0.01	0.11	<0.5	0.11	1.7	0.6	2.56	<5	4	80.40	7.10
3208450	Drill Core	19	0.10	0.074	12.2	9.8	<0.01	370	0.001	0.32	<0.01	0.11	<0.5	0.09	1.1	0.6	2.06	<5	2	83.00	7.00
3208451	Drill Core	17	0.18	0.044	9.8	5.2	0.04	402	0.001	0.23	<0.01	0.11	<0.5	0.10	1.7	<0.5	1.78	<5	<2	85.20	5.15
3208452	Drill Core	15	0.11	0.065	14.0	7.4	<0.01	424	0.002	0.26	<0.01	0.11	<0.5	0.06	1.3	<0.5	1.57	<5	2	86.40	6.00
3208453	Drill Core	21	0.13	0.094	11.5	12.1	<0.01	443	0.002	0.34	<0.01	0.11	<0.5	0.10	1.1	<0.5	2.19	<5	3	84.80	5.85
3208454	Drill Core	42	0.21	0.151	17.8	15.1	0.01	676	0.002	0.51	<0.01	0.17	<0.5	0.26	2.4	1.3	4.40	<5	5	70.50	9.75
3208455	Drill Core	40	0.17	0.129	21.3	15.6	0.01	784	0.002	0.47	<0.01	0.19	<0.5	0.29	1.9	1.1	3.14	<5	3	75.30	9.17
3208456	Drill Core	34	0.17	0.113	15.7	13.7	0.01	628	0.002	0.44	<0.01	0.14	<0.5	0.22	1.8	0.9	3.21	<5	3	77.50	7.57
3208457	Drill Core	43	0.23	0.130	22.4	13.7	0.01	852	0.003	0.47	<0.01	0.18	<0.5	0.19	1.7	0.8	2.36	<5	5	76.60	9.13
3208458	Rock	32	1.07	0.042	6.4	3.4	0.60	70	0.119	1.23	0.08	0.13	<0.5	<0.05	4.8	<0.5	0.06	<5	<2	69.50	14.10
3208459	Drill Core	40	0.10	0.097	22.2	14.1	0.01	758	0.002	0.47	<0.01	0.16	<0.5	0.17	2.3	0.8	2.05	<5	3	78.60	8.96
3208460	Drill Core	29	0.08	0.063	16.6	9.5	<0.01	672	0.002	0.35	<0.01	0.14	<0.5	0.12	1.3	0.7	2.56	<5	4	82.80	6.56
3208461	Drill Core	43	0.32	0.152	18.4	10.5	0.01	949	0.003	0.45	<0.01	0.18	<0.5	0.16	1.2	0.8	2.89	<5	6	77.90	8.30
3208462	Drill Core	54	0.14	0.115	22.7	17.0	0.01	903	0.002	0.49	<0.01	0.18	<0.5	0.16	2.8	0.9	2.20	<5	3	78.20	9.09
3208463	Drill Core	20	0.03	0.047	8.1	12.1	<0.01	520	0.002	0.31	<0.01	0.06	<0.5	0.39	2.3	0.9	4.51	<5	<2	83.90	3.81
3208464	Drill Core	20	0.02	0.040	9.8	10.1	<0.01	748	0.002	0.30	<0.01	0.08	<0.5	0.32	1.3	1.0	3.77	<5	3	84.40	4.47
3208465	Drill Core	24	0.09	0.061	8.8	9.0	<0.01	679	0.002	0.27	<0.01	0.09	<0.5	0.78	1.2	1.4	4.79	<5	3	81.00	4.62
3208466	Drill Core	32	0.11	0.083	24.9	8.6	0.01	984	0.002	0.48	<0.01	0.21	<0.5	0.36	1.4	1.0	2.85	<5	4	73.80	11.50
3208467	Drill Core	28	0.14	0.085	20.8	6.6	0.02	791	0.002	0.45	<0.01	0.19	<0.5	0.18	1.9	0.6	5.13	<5	5	69.80	10.80
3208468	Rock Pulp	142	3.55	0.055	4.7	24.7	2.04	119	0.157	3.32	0.10	0.21	0.9	0.42	19.8	0.5	1.62	9	6	51.40	13.10
3208469	Drill Core	34	0.09	0.084	23.3	7.3	0.01	827	0.002	0.48	<0.01	0.19	<0.5	0.27	1.5	1.0	5.57	<5	8	69.90	10.80
3208470	Drill Core	32	0.08	0.073	25.8	7.1	0.01	883	0.002	0.49	<0.01	0.20	<0.5	0.39	1.6	0.9	4.02	<5	5	72.00	11.50



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**Project:** MacMillan Pass  
**Report Date:** November 30, 2018

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# CERTIFICATE OF ANALYSIS

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02
3208441	Drill Core	4.78	1.91	0.98	1.64	0.06	0.39	0.14	0.01	0.49	0.01	0.02	0.07	7.36	99.58	1.75	3.62
3208442	Drill Core	4.62	0.41	0.38	2.30	0.04	0.53	0.24	0.01	0.70	<0.01	0.02	0.03	8.50	100.19	0.22	4.52
3208443	Drill Core	5.36	0.15	0.19	1.29	0.05	0.33	0.13	<0.01	0.41	<0.01	0.01	0.07	5.01	100.28	0.36	1.66
3208444	Drill Core	7.03	2.16	1.03	1.69	0.13	0.43	0.22	0.01	0.50	<0.01	0.01	0.28	6.42	97.67	3.11	2.08
3208445	Drill Core	4.95	0.49	0.36	1.74	0.08	0.45	0.23	0.01	0.53	<0.01	<0.01	0.27	4.95	99.99	1.13	1.50
3208446	Drill Core	4.05	0.18	0.23	1.61	0.04	0.40	0.19	<0.01	0.51	<0.01	<0.01	0.08	4.84	99.68	0.22	1.77
3208447	Drill Core	4.75	0.22	0.22	1.59	0.05	0.41	0.23	<0.01	0.52	<0.01	0.02	0.08	5.33	99.91	0.34	1.89
3208448	Drill Core	3.83	0.19	0.23	1.59	0.05	0.39	0.14	0.01	0.56	<0.01	0.01	0.16	4.52	100.00	0.39	1.82
3208449	Drill Core	4.12	0.20	0.22	1.47	0.05	0.36	0.21	<0.01	0.53	<0.01	0.01	0.07	5.07	99.97	0.36	2.10
3208450	Drill Core	2.87	0.15	0.21	1.48	0.03	0.37	0.17	<0.01	0.53	<0.01	<0.01	<0.01	4.01	99.99	<0.02	1.57
3208451	Drill Core	3.28	0.26	0.23	1.13	0.05	0.27	0.10	<0.01	0.45	<0.01	<0.01	0.12	3.10	99.45	0.53	0.87
3208452	Drill Core	2.48	0.16	0.19	1.29	0.03	0.33	0.14	<0.01	0.51	<0.01	<0.01	0.01	2.53	100.21	0.05	0.66
3208453	Drill Core	3.24	0.19	0.19	1.24	0.03	0.31	0.21	<0.01	0.54	<0.01	0.01	<0.01	3.32	100.06	0.02	0.95
3208454	Drill Core	5.79	0.32	0.31	2.11	0.03	0.49	0.34	0.01	0.87	<0.01	0.02	0.01	8.46	99.23	0.03	3.74
3208455	Drill Core	4.29	0.26	0.30	2.00	0.03	0.46	0.26	0.01	0.86	<0.01	0.02	<0.01	6.53	99.68	0.03	3.09
3208456	Drill Core	4.94	0.25	0.25	1.63	0.05	0.39	0.26	<0.01	0.72	<0.01	0.02	0.12	5.96	99.85	0.35	2.49
3208457	Drill Core	3.34	0.30	0.30	1.98	0.03	0.49	0.28	0.01	0.91	<0.01	0.01	<0.01	5.86	99.44	<0.02	2.93
3208458	Rock	3.88	2.79	1.18	1.88	0.13	0.38	0.10	<0.01	0.09	<0.01	<0.01	<0.01	1.54	99.85	0.47	0.20
3208459	Drill Core	2.90	0.14	0.28	1.91	0.03	0.46	0.21	0.01	0.90	<0.01	0.01	<0.01	5.27	99.87	0.03	2.62
3208460	Drill Core	3.60	0.12	0.22	1.42	0.03	0.35	0.14	<0.01	0.67	<0.01	0.01	<0.01	3.80	99.88	0.03	1.26
3208461	Drill Core	4.07	0.43	0.28	1.81	0.03	0.43	0.33	<0.01	0.88	<0.01	<0.01	<0.01	4.86	99.53	0.03	1.87
3208462	Drill Core	3.25	0.21	0.31	1.96	0.03	0.48	0.25	0.02	0.93	<0.01	0.02	<0.01	5.27	100.23	0.02	2.51
3208463	Drill Core	6.38	0.06	0.10	0.49	0.04	0.21	0.10	<0.01	0.40	<0.01	<0.01	0.01	4.21	99.82	0.16	0.57
3208464	Drill Core	5.16	0.04	0.14	0.78	0.03	0.27	0.09	<0.01	0.66	<0.01	<0.01	<0.01	3.72	99.92	0.06	0.59
3208465	Drill Core	6.58	0.12	0.15	0.95	0.05	0.26	0.13	<0.01	0.64	<0.01	0.01	0.31	4.43	99.45	0.17	0.73
3208466	Drill Core	3.96	0.16	0.37	2.56	0.03	0.66	0.18	0.02	1.16	<0.01	<0.01	0.01	4.96	99.65	0.03	1.51
3208467	Drill Core	7.35	0.22	0.35	2.43	0.07	0.63	0.18	0.01	1.09	<0.01	0.01	0.03	6.24	99.50	0.30	1.29
3208468	Rock Pulp	12.90	6.88	3.95	0.51	0.21	0.59	0.13	<0.01	0.03	0.09	<0.01	0.54	5.35	98.41	2.98	0.97
3208469	Drill Core	7.28	0.14	0.33	2.41	0.03	0.61	0.17	0.02	1.05	<0.01	<0.01	<0.01	6.46	99.48	<0.02	1.43
3208470	Drill Core	5.57	0.13	0.34	2.56	0.03	0.64	0.16	0.01	1.10	<0.01	<0.01	0.01	5.48	99.84	0.05	1.35



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**Project:** MacMillan Pass  
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# CERTIFICATE OF ANALYSIS

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	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	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
3208471	Drill Core	8.51	9	4	3	5.2	86.3	41.6	201	0.7	57.3	12.0	107	3.10	26	1.3	8.1	60	1.5	6.6	<0.5
3208472	Drill Core	6.28	9	<3	6	4.5	88.4	55.0	290	0.7	46.7	10.2	948	5.40	25	1.2	6.5	49	0.5	6.3	<0.5
3208473	Drill Core	7.38	13	<3	8	6.3	51.1	59.0	393	0.7	76.0	12.2	597	2.57	30	1.2	7.2	46	<0.5	7.0	<0.5
3208474	Drill Core	3.17	14	<3	5	6.4	74.5	69.9	491	0.8	78.2	13.2	1058	4.01	36	1.1	6.7	37	<0.5	7.5	<0.5
3208475	Drill Core	6.53	11	<3	7	5.0	81.3	44.8	505	0.6	57.3	11.4	1237	4.37	21	1.1	7.3	30	<0.5	5.8	<0.5



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# CERTIFICATE OF ANALYSIS

WHI18001040.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3208471	Drill Core	29	0.14	0.087	26.2	7.1	0.01	821	0.002	0.48	<0.01	0.20	<0.5	0.11	2.0	0.7	3.17	<5	4	73.10	11.50
3208472	Drill Core	36	0.15	0.086	20.2	7.4	0.17	758	0.002	0.47	<0.01	0.18	<0.5	0.22	2.4	0.6	4.34	<5	5	69.40	10.60
3208473	Drill Core	32	0.16	0.076	24.6	8.0	0.04	774	0.002	0.42	<0.01	0.19	<0.5	0.23	1.7	0.5	1.83	<5	5	73.30	11.70
3208474	Drill Core	35	0.15	0.078	23.0	7.1	0.15	670	0.002	0.37	<0.01	0.17	<0.5	0.18	2.3	0.7	2.39	<5	6	71.10	11.10
3208475	Drill Core	42	0.18	0.069	24.5	7.9	0.23	792	0.002	0.44	<0.01	0.21	<0.5	0.15	2.8	0.5	1.80	<5	4	70.50	11.10



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# CERTIFICATE OF ANALYSIS

WHI18001040.1

	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	
	Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3208471	Drill Core	4.46	0.19	0.34	2.58	0.04	0.68	0.18	0.01	1.08	<0.01	<0.01	0.02	5.12	99.56	0.04	1.42	3.20	
3208472	Drill Core	7.51	0.21	0.58	2.36	0.13	0.61	0.19	0.02	0.97	<0.01	<0.01	0.03	6.79	99.65	1.09	1.74	4.50	
3208473	Drill Core	3.84	0.24	0.39	2.66	0.09	0.64	0.19	0.02	1.06	<0.01	<0.01	0.04	4.98	99.41	0.59	1.82	1.90	
3208474	Drill Core	5.83	0.27	0.56	2.52	0.15	0.61	0.19	0.01	1.00	<0.01	<0.01	0.05	6.13	99.78	1.38	2.04	2.53	
3208475	Drill Core	6.25	0.25	0.68	2.52	0.17	0.61	0.16	0.02	0.98	<0.01	<0.01	0.05	6.11	99.65	2.03	2.04	1.83	



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## QUALITY CONTROL REPORT

WHI18001040.1

	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	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
3208409	Drill Core	6.58	9	<3	7	2.2	34.9	68.9	255	<0.5	36.0	4.4	75	1.13	55	<0.5	2.1	34	1.0	2.8	<0.5
3208445	Drill Core	7.39	8	<3	5	3.3	58.4	43.8	2596	<0.5	47.0	8.4	451	3.45	15	1.3	5.0	98	5.1	3.5	<0.5
3208456	Drill Core	6.41	12	<3	<2	14.9	65.3	143.9	1180	1.4	66.9	11.0	224	3.56	45	2.2	4.2	34	4.4	14.2	<0.5
Pulp Duplicates																					
3208382	Drill Core	7.58	12	4	8	3.5	70.8	26.0	213	<0.5	30.0	6.5	62	3.49	<5	0.6	8.7	21	<0.5	1.5	<0.5
REP 3208382	QC		13	<3	11																
3208394	Drill Core	7.77	8	<3	5	3.9	88.5	74.1	471	0.5	37.6	5.8	97	3.58	10	0.8	8.6	49	0.8	1.5	<0.5
REP 3208394	QC		9	<3	4																
3208396	Drill Core	2.70	8	<3	5	3.6	87.6	74.4	387	0.5	37.3	7.7	335	3.25	<5	0.8	9.0	89	1.3	0.9	<0.5
REP 3208396	QC																				
3208397	Drill Core	8.05	10	3	6	3.2	82.2	59.0	487	<0.5	41.3	8.4	432	3.86	<5	0.7	8.9	66	1.6	0.7	<0.5
REP 3208397	QC																				
REP 3208404	QC					18.6	76.9	134.3	899	1.4	97.2	18.2	239	2.76	33	1.1	7.0	61	2.9	9.0	<0.5
3208406	Drill Core	5.53	9	7	6	3.9	81.1	54.7	81	0.7	60.6	7.3	51	1.83	21	0.6	3.9	32	<0.5	3.8	<0.5
REP 3208406	QC																				
3208408	Drill Core	7.74	5	9	5	1.7	53.3	103.9	142	<0.5	28.0	2.6	67	0.71	14	<0.5	1.7	30	<0.5	1.4	<0.5
REP 3208408	QC		6	5	8																
3208413	Drill Core	7.16	15	<3	11	6.2	60.6	54.8	78	0.8	56.7	10.8	234	2.44	27	0.6	4.6	77	<0.5	6.9	<0.5
REP 3208413	QC		15	8	9																
3208427	Drill Core	8.49	16	<3	5	24.4	368.7	235.3	154	2.7	128.2	16.6	171	3.66	62	1.8	6.6	70	1.7	21.1	<0.5
REP 3208427	QC																				
3208429	Drill Core	3.34	11	<3	7	6.6	75.6	80.8	456	0.9	49.7	8.2	138	1.89	23	0.9	5.4	51	2.1	6.9	<0.5
REP 3208429	QC																				
3208431	Drill Core	7.25	10	<3	4	3.8	77.9	87.3	649	0.5	31.6	6.3	218	1.68	13	0.7	6.2	74	3.5	3.1	<0.5
REP 3208431	QC																				
REP 3208438	QC					22.8	100.0	232.4	1170	2.0	96.0	13.0	298	3.86	49	2.0	5.6	60	4.3	20.3	<0.5
3208439	Drill Core	6.99	13	<3	5	17.8	88.3	211.7	773	1.3	98.7	13.7	191	3.79	44	1.8	5.4	68	5.2	17.0	<0.5
REP 3208439	QC																				
3208441	Drill Core	6.55	13	<3	6	20.2	103.1	121.3	703	0.8	69.2	9.5	335	3.30	32	1.2	4.3	172	5.3	11.2	<0.5



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## QUALITY CONTROL REPORT

WHI18001040.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3208409	Drill Core	<10	0.11	0.059	7.4	5.5	0.03	123	<0.001	0.23	<0.01	0.09	<0.5	0.11	0.9	<0.5	0.64	<5	2	90.20	4.04
3208445	Drill Core	35	0.36	0.095	17.7	11.6	0.08	504	0.002	0.51	<0.01	0.16	<0.5	0.06	2.7	<0.5	2.42	<5	<2	77.70	8.02
3208456	Drill Core	34	0.17	0.113	15.7	13.7	0.01	628	0.002	0.44	<0.01	0.14	<0.5	0.22	1.8	0.9	3.21	<5	3	77.50	7.57
Pulp Duplicates																					
3208382	Drill Core	37	0.06	0.045	29.0	26.5	0.37	190	0.002	1.12	<0.01	0.20	<0.5	0.09	2.6	<0.5	0.49	<5	3	73.20	12.50
REP 3208382	QC																				
3208394	Drill Core	48	0.10	0.063	31.5	28.9	0.45	194	0.002	1.41	<0.01	0.20	<0.5	0.10	2.9	<0.5	0.41	<5	5	73.40	12.30
REP 3208394	QC																				
3208396	Drill Core	41	0.62	0.056	31.5	26.3	0.58	214	0.002	1.22	<0.01	0.20	<0.5	0.11	3.4	<0.5	0.45	<5	3	72.40	12.00
REP 3208396	QC																			72.60	12.10
3208397	Drill Core	48	0.43	0.056	30.8	30.2	0.63	199	0.002	1.48	<0.01	0.20	<0.5	0.06	3.0	<0.5	0.40	<5	2	72.00	12.20
REP 3208397	QC																				
REP 3208404	QC	20	0.34	0.057	22.8	9.6	0.20	186	0.002	0.51	<0.01	0.18	<0.5	0.29	1.7	<0.5	1.78	<5	3		
3208406	Drill Core	11	0.11	0.056	13.3	5.0	<0.01	156	0.001	0.32	<0.01	0.13	<0.5	0.09	1.0	<0.5	1.58	<5	4	85.40	6.39
REP 3208406	QC																			85.20	6.41
3208408	Drill Core	<10	0.13	0.062	7.0	5.7	0.02	87	<0.001	0.23	<0.01	0.06	<0.5	<0.05	0.9	<0.5	0.26	<5	3	93.50	3.02
REP 3208408	QC																				
3208413	Drill Core	23	0.71	0.047	16.5	7.3	0.26	195	0.001	0.27	<0.01	0.14	<0.5	0.15	2.5	<0.5	1.52	<5	4	80.40	7.22
REP 3208413	QC																				
3208427	Drill Core	27	0.48	0.082	21.7	10.4	0.17	379	0.002	0.47	<0.01	0.20	<0.5	0.26	3.1	1.3	3.35	<5	7	70.90	9.84
REP 3208427	QC																				
3208429	Drill Core	28	0.38	0.068	20.8	8.9	0.15	397	0.002	0.41	<0.01	0.18	<0.5	0.09	2.5	<0.5	1.32	<5	2	79.30	8.67
REP 3208429	QC																			79.20	8.67
3208431	Drill Core	37	0.72	0.093	24.5	10.0	0.23	427	0.002	0.41	<0.01	0.19	<0.5	0.09	3.8	<0.5	0.86	<5	4	78.00	9.47
REP 3208431	QC																				
REP 3208438	QC	33	0.39	0.085	19.0	9.6	0.13	392	0.002	0.48	<0.01	0.15	<0.5	0.27	1.9	0.8	3.23	<5	5		
3208439	Drill Core	36	0.26	0.088	18.5	9.7	0.06	484	0.002	0.49	<0.01	0.18	<0.5	0.21	2.6	0.8	3.44	<5	6	73.60	9.23
REP 3208439	QC																			73.50	9.23
3208441	Drill Core	38	1.41	0.060	15.7	10.0	0.44	451	0.002	0.34	<0.01	0.15	<0.5	0.21	2.4	0.8	2.63	<5	4	74.20	7.36





Bureau Veritas Commodities Canada Ltd.

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Project: MacMillan Pass  
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## QUALITY CONTROL REPORT

WHI18001040.1

	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02
3208409	Drill Core	1.70	0.18	0.15	0.86	0.03	0.21	0.14	<0.01	0.12	<0.01	<0.01	0.02	2.03	99.76	0.15	1.14	0.62
3208445	Drill Core	4.95	0.49	0.36	1.74	0.08	0.45	0.23	0.01	0.53	<0.01	<0.01	0.27	4.95	99.99	1.13	1.50	2.51
3208456	Drill Core	4.94	0.25	0.25	1.63	0.05	0.39	0.26	<0.01	0.72	<0.01	0.02	0.12	5.96	99.85	0.35	2.49	3.22
Pulp Duplicates																		
3208382	Drill Core	4.95	0.09	0.85	2.71	0.03	0.70	0.11	0.01	0.23	<0.01	<0.01	0.02	3.66	99.19	<0.02	1.09	0.45
REP 3208382	QC																	
3208394	Drill Core	5.12	0.17	0.99	2.54	0.03	0.68	0.16	0.01	0.22	<0.01	<0.01	0.04	3.74	99.54	0.04	1.17	0.38
REP 3208394	QC	0.03																
3208396	Drill Core	4.73	0.84	1.19	2.57	0.06	0.67	0.13	0.01	0.23	<0.01	<0.01	0.04	4.51	99.53	0.98	1.35	0.40
REP 3208396	QC	4.75	0.84	1.20	2.59	0.06	0.67	0.13	0.01	0.23	<0.01	0.01	0.04	4.51	99.91			
3208397	Drill Core	5.61	0.60	1.28	2.50	0.07	0.68	0.13	0.01	0.23	<0.01	0.01	0.05	4.32	99.84	0.71	1.36	0.38
REP 3208397	QC	1.35 0.38																
REP 3208404	QC																	
3208406	Drill Core	2.66	0.15	0.15	1.45	0.03	0.35	0.12	<0.01	0.17	<0.01	<0.01	<0.01	2.80	99.79	0.04	0.91	1.46
REP 3208406	QC	2.63	0.15	0.14	1.45	0.03	0.35	0.12	<0.01	0.17	<0.01	<0.01	<0.01	2.80	99.56			
3208408	Drill Core	1.13	0.18	0.10	0.60	0.03	0.15	0.15	<0.01	0.08	<0.01	0.01	0.01	1.07	100.10	0.10	0.46	0.24
REP 3208408	QC																	
3208413	Drill Core	3.51	0.96	0.59	1.61	0.05	0.40	0.10	<0.01	0.24	<0.01	<0.01	<0.01	4.43	99.70	1.30	1.76	1.44
REP 3208413	QC																	
3208427	Drill Core	5.28	0.66	0.48	2.20	0.04	0.49	0.17	0.01	0.44	0.03	0.02	0.01	8.98	99.75	0.79	5.30	3.16
REP 3208427	QC	0.80																
3208429	Drill Core	2.76	0.59	0.46	1.95	0.04	0.49	0.15	<0.01	0.40	<0.01	<0.01	0.04	4.45	99.47	0.79	2.18	1.24
REP 3208429	QC	2.78	0.59	0.45	1.95	0.04	0.50	0.15	0.01	0.41	<0.01	<0.01	0.04	4.45	99.42			
3208431	Drill Core	2.58	1.02	0.61	2.12	0.05	0.54	0.22	0.01	0.47	<0.01	0.01	0.07	4.17	99.51	1.30	1.69	0.80
REP 3208431	QC	1.69 0.82																
REP 3208438	QC																	
3208439	Drill Core	5.40	0.38	0.35	2.02	0.05	0.48	0.20	0.01	0.56	<0.01	0.02	0.08	7.44	100.02	0.42	3.80	3.24
REP 3208439	QC	5.39	0.38	0.35	2.02	0.05	0.48	0.20	0.01	0.55	<0.01	0.02	0.08	7.44	99.88			
3208441	Drill Core	4.78	1.91	0.98	1.64	0.06	0.39	0.14	0.01	0.49	0.01	0.02	0.07	7.36	99.58	1.75	3.62	2.76



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## QUALITY CONTROL REPORT

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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
REP 3208441	QC		13	<3	5																
3208446	Drill Core	6.91	11	8	<2	11.6	31.5	77.2	729	0.5	53.1	8.4	115	2.84	26	1.2	4.5	66	2.2	6.9	<0.5
REP 3208446	QC		10	<3	4																
3208459	Drill Core	8.04	10	<3	7	17.5	47.9	101.8	65	0.7	57.5	9.0	69	2.05	39	2.0	5.5	29	1.8	9.4	<0.5
REP 3208459	QC																				
3208461	Drill Core	7.26	8	9	3	14.2	51.7	117.1	102	0.7	75.2	9.3	90	2.88	44	1.5	4.4	41	1.5	6.9	<0.5
REP 3208461	QC																				
3208466	Drill Core	8.96	12	6	5	7.7	76.2	59.4	134	1.0	67.4	11.7	50	2.72	32	1.5	7.6	46	0.6	8.5	<0.5
REP 3208466	QC																				
3208468	Rock Pulp	0.09	132	<3	4	1.6	910.3	66.3	5192	1.9	19.1	37.9	1277	7.82	87	<0.5	0.7	69	13.7	4.4	<0.5
REP 3208468	QC					1.9	939.2	71.6	5369	2.0	20.0	37.8	1343	8.10	89	<0.5	0.7	71	14.4	4.2	<0.5
3208470	Drill Core	7.19	11	<3	6	5.4	91.1	81.5	105	0.8	66.1	12.3	71	3.93	30	1.5	8.2	50	<0.5	9.1	<0.5
REP 3208470	QC																				
3208471	Drill Core	8.51	9	4	3	5.2	86.3	41.6	201	0.7	57.3	12.0	107	3.10	26	1.3	8.1	60	1.5	6.6	<0.5
REP 3208471	QC																				
REP 3208472	QC		10	5	5																
Core Reject Duplicates																					
3208404	Drill Core	5.49	19	<3	6	18.7	80.2	141.9	927	1.5	100.2	19.3	249	2.85	34	1.1	7.1	62	2.9	9.7	<0.5
DUP 3208404	QC		19	<3	8	18.1	79.3	133.1	903	1.4	96.4	18.1	240	2.75	31	1.1	6.6	62	2.9	8.9	<0.5
3208438	Drill Core	7.32	15	<3	7	22.9	102.6	230.0	1194	2.1	95.4	13.1	290	3.88	50	2.0	5.5	61	4.7	20.0	<0.5
DUP 3208438	QC		14	<3	6	22.9	103.0	237.3	1168	2.2	95.0	13.5	294	3.85	50	2.1	5.6	59	4.8	20.0	<0.5
3208472	Drill Core	6.28	9	<3	6	4.5	88.4	55.0	290	0.7	46.7	10.2	948	5.40	25	1.2	6.5	49	0.5	6.3	<0.5
DUP 3208472	QC		10	6	3	4.8	91.8	56.7	294	0.8	52.2	10.2	989	5.12	28	1.2	7.1	53	0.6	6.9	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				



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## QUALITY CONTROL REPORT

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		AQ270 V ppm 10	AQ270 Ca % 0.01	AQ270 P % 0.001	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
REP 3208441	QC																				
3208446	Drill Core	29	0.10	0.080	15.8	10.2	<0.01	473	0.002	0.46	<0.01	0.15	<0.5	0.14	2.0	0.6	2.59	<5	3	80.00	7.41
REP 3208446	QC																				
3208459	Drill Core	40	0.10	0.097	22.2	14.1	0.01	758	0.002	0.47	<0.01	0.16	<0.5	0.17	2.3	0.8	2.05	<5	3	78.60	8.96
REP 3208459	QC																				
3208461	Drill Core	43	0.32	0.152	18.4	10.5	0.01	949	0.003	0.45	<0.01	0.18	<0.5	0.16	1.2	0.8	2.89	<5	6	77.90	8.30
REP 3208461	QC																			77.80	8.31
3208466	Drill Core	32	0.11	0.083	24.9	8.6	0.01	984	0.002	0.48	<0.01	0.21	<0.5	0.36	1.4	1.0	2.85	<5	4	73.80	11.50
REP 3208466	QC																				
3208468	Rock Pulp	142	3.55	0.055	4.7	24.7	2.04	119	0.157	3.32	0.10	0.21	0.9	0.42	19.8	0.5	1.62	9	6	51.40	13.10
REP 3208468	QC	147	3.69	0.056	5.1	26.5	2.12	124	0.167	3.44	0.11	0.22	1.0	0.46	21.4	0.6	1.65	10	4		
3208470	Drill Core	32	0.08	0.073	25.8	7.1	0.01	883	0.002	0.49	<0.01	0.20	<0.5	0.39	1.6	0.9	4.02	<5	5	72.00	11.50
REP 3208470	QC																			72.00	11.50
3208471	Drill Core	29	0.14	0.087	26.2	7.1	0.01	821	0.002	0.48	<0.01	0.20	<0.5	0.11	2.0	0.7	3.17	<5	4	73.10	11.50
REP 3208471	QC																				
REP 3208472	QC																				
Core Reject Duplicates																					
3208404	Drill Core	20	0.33	0.050	23.9	10.0	0.19	192	0.002	0.52	<0.01	0.18	<0.5	0.26	1.8	<0.5	1.85	<5	4	73.40	10.30
DUP 3208404	QC	20	0.32	0.050	23.2	10.4	0.19	187	0.001	0.52	<0.01	0.18	<0.5	0.29	2.1	<0.5	1.78	<5	4	73.70	10.30
3208438	Drill Core	34	0.41	0.083	18.6	10.0	0.13	383	0.002	0.48	<0.01	0.15	<0.5	0.25	2.1	0.7	3.25	<5	6	72.00	9.36
DUP 3208438	QC	34	0.44	0.086	19.2	9.9	0.13	392	0.002	0.48	<0.01	0.16	<0.5	0.21	2.0	0.8	3.22	<5	5	71.80	9.34
3208472	Drill Core	36	0.15	0.086	20.2	7.4	0.17	758	0.002	0.47	<0.01	0.18	<0.5	0.22	2.4	0.6	4.34	<5	5	69.40	10.60
DUP 3208472	QC	34	0.17	0.084	21.9	7.7	0.18	798	0.002	0.49	<0.01	0.20	<0.5	0.30	2.3	0.7	4.14	<5	6	69.50	10.60
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
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## QUALITY CONTROL REPORT

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		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
REP 3208441	QC																	
3208446	Drill Core	4.05	0.18	0.23	1.61	0.04	0.40	0.19	<0.01	0.51	<0.01	<0.01	0.08	4.84	99.68	0.22	1.77	2.68
REP 3208446	QC																	
3208459	Drill Core	2.90	0.14	0.28	1.91	0.03	0.46	0.21	0.01	0.90	<0.01	0.01	<0.01	5.27	99.87	0.03	2.62	2.05
REP 3208459	QC															0.02		
3208461	Drill Core	4.07	0.43	0.28	1.81	0.03	0.43	0.33	<0.01	0.88	<0.01	<0.01	<0.01	4.86	99.53	0.03	1.87	3.00
REP 3208461	QC	4.10	0.43	0.28	1.84	0.03	0.46	0.33	0.01	0.89	<0.01	0.01	<0.01	4.86	99.58			
3208466	Drill Core	3.96	0.16	0.37	2.56	0.03	0.66	0.18	0.02	1.16	<0.01	<0.01	0.01	4.96	99.65	0.03	1.51	2.97
REP 3208466	QC																1.47	2.86
3208468	Rock Pulp	12.90	6.88	3.95	0.51	0.21	0.59	0.13	<0.01	0.03	0.09	<0.01	0.54	5.35	98.41	2.98	0.97	1.69
REP 3208468	QC																	
3208470	Drill Core	5.57	0.13	0.34	2.56	0.03	0.64	0.16	0.01	1.10	<0.01	<0.01	0.01	5.48	99.84	0.05	1.35	4.26
REP 3208470	QC	5.56	0.13	0.34	2.55	0.03	0.66	0.16	0.02	1.09	<0.01	0.01	<0.01	5.48	99.82			
3208471	Drill Core	4.46	0.19	0.34	2.58	0.04	0.68	0.18	0.01	1.08	<0.01	<0.01	0.02	5.12	99.56	0.04	1.42	3.20
REP 3208471	QC															0.06		
REP 3208472	QC																	
Core Reject Duplicates																		
3208404	Drill Core	4.14	0.50	0.56	2.44	0.05	0.53	0.13	<0.01	0.24	<0.01	0.01	0.09	7.10	99.66	0.68	4.18	1.76
DUP 3208404	QC	4.04	0.48	0.55	2.42	0.05	0.53	0.13	0.01	0.23	<0.01	0.01	0.09	6.92	99.62	0.59	4.14	1.70
3208438	Drill Core	5.56	0.60	0.46	2.05	0.06	0.49	0.19	0.01	0.50	<0.01	0.02	0.12	8.42	100.04	0.82	4.67	3.05
DUP 3208438	QC	5.48	0.60	0.45	2.04	0.06	0.48	0.19	0.01	0.48	<0.01	0.02	0.12	8.46	99.74	0.79	4.59	3.03
3208472	Drill Core	7.51	0.21	0.58	2.36	0.13	0.61	0.19	0.02	0.97	<0.01	<0.01	0.03	6.79	99.65	1.09	1.74	4.50
DUP 3208472	QC	7.25	0.20	0.57	2.39	0.13	0.58	0.18	0.01	0.97	<0.01	<0.01	0.03	6.62	99.29	1.07	1.80	4.31
Reference Materials																		
STD COO1	Standard															2.23		
STD COO1	Standard															2.20		
STD COO1	Standard															2.39		
STD COO1	Standard															2.40		
STD COO1	Standard															2.48		



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## QUALITY CONTROL REPORT

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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard					923.9	3863.1	11690.0	5267	48.4	4188.0	1994.4	5360	3.92	7	0.7	0.9	13	8.5	7.1	13.4
STD GBM398-4-AR	Standard					923.9	3870.8	11647.8	5195	49.5	4126.9	1955.7	5371	4.03	7	0.7	1.0	14	9.0	7.1	13.3
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 OREAS135	Standard					7.9	308.4	17079.9	27380	53.7	37.3	29.8	3912	8.96	939	9.4	10.5	28	66.5	39.2	5.2
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard					5.1	50232.0	889.5	2153	972.1	1550.6	102.9	98	3.85	1643	1.0	2.7	49	13.7	308.5	20.5
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard					1.1	10724.1	234.6	738	5.4	29.8	30.4	1134	8.38	12	1.7	14.4	14	1.0	1.3	76.8
STD OREAS927-AR	Standard					1.1	10551.6	225.9	730	4.1	29.9	29.3	1125	8.25	13	1.6	12.9	14	1.1	1.2	71.3
STD PD05	Standard		493	432	605																
STD PD05	Standard		527	441	630																
STD PD05	Standard		514	428	611																
STD PD05	Standard		519	435	610																
STD PG04	Standard		950	900	1204																
STD PG04	Standard		983	915	1206																
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				



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Suite 1020, 800 Pender Street

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**Project:**

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## QUALITY CONTROL REPORT

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		AQ270 V ppm	AQ270 Ca %	AQ270 P %	AQ270 La ppm	AQ270 Cr ppm	AQ270 Mg %	AQ270 Ba ppm	AQ270 Ti %	AQ270 Al %	AQ270 Na %	AQ270 K %	AQ270 W ppm	AQ270 Hg ppm	AQ270 Sc ppm	AQ270 Ti ppm	AQ270 S %	AQ270 Ga ppm	AQ270 Se ppm	LF725 SiO2 %	LF725 Al2O3 %
		10	0.01	0.001	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
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard	21	0.31	0.020	2.7	2026.8	0.12	19	0.111	0.48	0.25	0.11	3.1	3.17	2.3	<0.5	0.96	<5	3		
STD GBM398-4-AR	Standard	22	0.38	0.017	3.1	1984.8	0.12	19	0.114	0.49	0.26	0.11	3.3	3.04	2.1	<0.5	0.97	<5	3		
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 OREAS135	Standard	31	1.86	0.096	38.4	22.1	0.80	378	0.027	1.05	0.02	0.48	2.8	1.23	3.4	6.1	7.15	<5	<2		
STD OREAS133B(D)	Standard																			33.70	6.83
STD OREAS133B(D)	Standard																			33.70	6.81
STD OREAS133B(D)	Standard																			33.70	6.83
STD OREAS605	Standard	<10	0.18	0.008	7.5	27.8	0.03	120	0.011	0.73	0.03	0.15	7.2	1.52	1.6	16.1	7.85	7	83		
STD OREAS72B	Standard																			51.40	8.98
STD OREAS72B	Standard																			51.40	8.93
STD OREAS72B	Standard																			51.30	8.95
STD OREAS927-AR	Standard	31	0.27	0.058	27.7	40.9	1.91	43	0.071	3.18	<0.01	0.25	5.9	0.11	4.5	<0.5	1.84	9	16		
STD OREAS927-AR	Standard	32	0.29	0.056	28.3	39.7	1.89	45	0.076	3.14	<0.01	0.25	4.8	0.12	4.8	<0.5	1.82	9	15		
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.60	20.60
STD SY-4(D)	Standard																			49.70	20.70



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## QUALITY CONTROL REPORT

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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
STD COO1	Standard															2.45			
STD COO1	Standard															2.39			
STD COO1	Standard															2.31			
STD GBM398-4-AR	Standard																		
STD GBM398-4-AR	Standard																		
STD GS311-1	Standard																	1.07	2.22
STD GS311-1	Standard																	1.00	2.43
STD GS311-1	Standard																	1.08	2.25
STD GS910-4	Standard																	2.84	8.32
STD GS910-4	Standard																	2.72	8.67
STD GS910-4	Standard																	2.85	8.21
STD OREAS135	Standard																		
STD OREAS133B(D)	Standard	11.50	5.31	3.70	3.45	0.16	0.24	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.65				
STD OREAS133B(D)	Standard	11.50	5.29	3.71	3.43	0.16	0.24	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.61				
STD OREAS133B(D)	Standard	11.50	5.32	3.73	3.43	0.16	0.24	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.68				
STD OREAS605	Standard																		
STD OREAS72B	Standard	9.86	3.98	15.90	1.31	0.15	0.35	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.58				
STD OREAS72B	Standard	9.81	3.98	15.80	1.31	0.15	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.41				
STD OREAS72B	Standard	9.77	3.96	15.80	1.32	0.15	0.36	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.28				
STD OREAS927-AR	Standard																		
STD OREAS927-AR	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PG04	Standard																		
STD PG04	Standard																		
STD SY-4(D)	Standard	6.18	8.00	0.52	1.66	0.11	0.29	0.18	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.67				
STD SY-4(D)	Standard	6.17	8.00	0.53	1.65	0.11	0.29	0.18	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.90				





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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD COO1 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
STD OREAS135 Expected						8.25	282	17000	28000	55.2	33.7	28	3960	8.97	883	8.89	9.67		61	38	4.35
STD GBM398-4-AR Expected						917	3919	11750	5345	49.2	4135	1950	5260	3.95	6	0.7	0.8	13	9.2	7.2	12.9
STD OREAS605 Expected						4.75	49800	856	2170	984	1538	93	86	3.75	1613	0.95			12.9	228	16.7
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD PD05 Expected		519		430	596																
STD PG04 Expected		1004		903	1196																
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
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BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	3		<3	<2																
BLK	Blank	<2		<3	<2																
BLK	Blank	3		<3	<2																
BLK	Blank	3		<3	2																
BLK	Blank	3		<3	<2																
BLK	Blank	4		<3	<2																
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
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
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



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## WHI18001040.1

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.



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
STD SY-4(D)	Standard	6.17	8.01	0.53	1.65	0.11	0.29	0.18	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.89			
STD GS311-1 Expected																	1.02	2.35
STD GS910-4 Expected																	2.65	8.27
STD COO1 Expected																2.37		
STD OREAS927-AR Expected																		
STD OREAS135 Expected																		
STD GBM398-4-AR Expected																		
STD OREAS605 Expected																		
STD SY-4(D) Expected		6.21		0.54	1.66	0.108	0.287	0.131		0.0345				4.56				
STD OREAS72B Expected		9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12				
STD OREAS133B(D) Expected		11.67	5.4	3.73						0.08	0.032	5.06	11.35					
STD PD05 Expected																		
STD PG04 Expected																		
BLK	Blank																<0.02	<0.02
BLK	Blank																<0.02	<0.02
BLK	Blank																<0.02	<0.02
BLK	Blank															<0.02		
BLK	Blank															0.03		
BLK	Blank															0.04		
BLK	Blank															<0.02		
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**Project:** MacMillan Pass  
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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SI BLK	Blank	0.01	2	3	2	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
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		2	<3	<2																
BLK	Blank		3	<3	2																
Prep Wash																					
ROCK-WHI	Prep Blank		4	6	2	2.9	2.5	5.3	28	<0.5	0.7	3.2	524	2.04	<5	<0.5	2.6	23	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		3	<3	<2	1.1	3.0	1.3	29	<0.5	0.7	3.5	514	1.96	<5	<0.5	2.6	22	<0.5	<0.5	<0.5



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
SI BLK	Blank																			99.20	0.33
SI BLK	Blank																			99.00	0.34
SI BLK	Blank																			99.50	0.33
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	21	0.68	0.040	6.3	2.5	0.43	62	0.089	0.82	0.07	0.09	<0.5	<0.05	2.8	<0.5	0.06	<5	<2	71.30	14.10
ROCK-WHI	Prep Blank	21	0.63	0.042	5.9	2.1	0.45	56	0.086	0.80	0.06	0.07	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	71.20	14.00



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## QUALITY CONTROL REPORT

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		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
SI BLK	Blank	0.03	0.01	0.03	0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.68			
SI BLK	Blank	0.02	0.01	0.03	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.45			
SI BLK	Blank	0.03	0.01	0.03	<0.01	0.02	0.03	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	99.98			
BLK	Blank																	
BLK	Blank																	
Prep Wash																		
ROCK-WHI	Prep Blank	3.27	2.42	0.81	2.08	0.10	0.36	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.79	99.88	0.19	0.09	<0.02
ROCK-WHI	Prep Blank	3.18	2.33	0.84	1.97	0.10	0.36	0.10	<0.01	0.08	<0.01	<0.01	<0.01	0.86	99.51	0.25	0.09	<0.02