



**BUREAU  
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**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 18, 2018

Report Date: November 18, 2018

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## CERTIFICATE OF ANALYSIS

WHI18000943.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-042  
P.O. Number  
Number of Samples: 73

### 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	71	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
CRUBW	71	Extra clean rock wash between samples in crusher			WHI
PULSW	71	Extra Wash with Silica between each sample			WHI
FA330	73	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	73	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	73	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	73	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	73	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	73	Analysis by Leco	0.1	Completed	VAN
SHP01	73	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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	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
3208308	Drill Core	5.45	6	<3	2	8.0	68.6	68.4	571	0.6	21.3	3.1	59	4.02	85	0.8	6.7	26	0.8	3.2	<0.5
3208309	Drill Core	7.13	5	<3	3	9.6	89.1	76.1	486	0.6	17.1	1.9	57	3.78	125	0.9	7.5	37	1.0	3.1	<0.5
3208310	Drill Core	6.26	4	<3	4	7.7	112.2	50.4	703	<0.5	23.2	2.4	59	4.42	139	0.9	7.8	37	1.8	2.4	<0.5
3208311	Rock Pulp	0.12	463	<3	<2	2.5	13456.9	33.4	1315	3.1	15.0	123.6	1241	11.22	57	<0.5	0.6	56	3.8	3.0	1.4
3208312	Drill Core	6.76	7	15	23	6.8	37.2	63.5	637	0.6	15.0	1.2	31	3.71	85	0.8	8.0	27	<0.5	2.7	<0.5
3208313	Drill Core	6.56	5	<3	3	6.1	55.1	68.9	473	<0.5	14.9	1.3	25	2.73	71	1.0	6.8	47	0.6	2.6	<0.5
3208314	Drill Core	7.41	3	<3	4	7.1	35.0	42.3	294	<0.5	11.8	1.8	32	1.68	31	0.7	4.7	19	0.8	2.3	<0.5
3208315	Drill Core	5.43	11	<3	5	18.1	42.0	59.1	9	2.3	25.8	6.4	37	2.22	22	<0.5	5.5	11	<0.5	8.0	<0.5
3208316	Drill Core	3.61	15	<3	9	18.3	45.3	53.4	13	2.0	30.0	6.4	39	2.27	26	<0.5	5.1	12	<0.5	7.6	<0.5
3208317	Drill Core	6.50	14	5	4	16.6	43.3	73.9	7	2.4	22.0	4.9	36	2.06	21	0.5	5.6	12	<0.5	6.2	<0.5
3208318	Drill Core	6.59	11	<3	3	18.1	70.8	140.7	23	1.4	13.2	2.6	36	1.75	66	2.5	5.9	34	<0.5	7.3	<0.5
3208319	Drill Core	6.73	11	<3	7	21.4	41.4	83.4	<5	2.0	32.8	7.6	38	3.03	31	0.6	5.4	12	<0.5	7.3	<0.5
3208320	Drill Core	7.02	18	<3	6	24.4	58.3	111.3	19	2.1	34.9	8.0	40	2.52	35	0.9	6.3	15	<0.5	7.5	<0.5
3208321	Drill Core	4.91	16	<3	3	31.6	60.5	232.5	29	1.9	49.0	8.2	51	2.42	37	1.3	6.5	35	<0.5	7.8	<0.5
3208322	Drill Core	7.13	15	<3	6	30.0	56.7	99.2	60	2.2	56.1	9.8	47	2.46	42	0.7	5.8	17	<0.5	11.0	<0.5
3208323	Drill Core	6.12	5	<3	3	8.2	35.2	76.2	23	<0.5	26.6	4.8	49	1.63	15	<0.5	3.0	23	<0.5	2.5	<0.5
3208324	Drill Core	6.08	11	4	7	25.4	57.4	144.7	1391	1.1	61.8	9.7	47	2.88	34	1.0	4.4	18	8.3	5.9	<0.5
3208325	Drill Core	7.70	10	<3	6	24.2	49.9	130.5	51	1.3	44.7	6.9	56	2.36	24	1.1	4.9	21	1.7	5.7	<0.5
3208326	Drill Core	7.05	14	<3	6	50.6	100.3	232.6	23	2.0	109.0	16.7	65	3.48	69	1.2	6.3	12	1.1	12.7	0.5
3208327	Drill Core	6.12	7	<3	3	11.9	56.0	228.1	37	0.9	44.5	8.5	63	3.32	25	1.0	4.7	45	<0.5	4.3	<0.5
3208328	Drill Core	3.03	9	<3	5	4.6	70.5	208.9	140	0.5	44.5	8.6	25	7.42	21	0.8	4.8	25	1.5	2.8	<0.5
3208329	Drill Core	7.30	5	9	4	4.4	51.4	106.2	103	0.6	65.6	10.3	35	4.24	23	0.8	4.8	25	0.7	3.1	<0.5
3208330	Drill Core	7.22	6	<3	4	12.6	60.2	260.2	39	0.8	59.3	8.9	41	4.47	24	1.2	4.9	25	1.8	3.9	<0.5
3208331	Drill Core	7.15	8	<3	2	6.1	61.7	224.9	639	0.9	42.4	6.5	213	3.08	24	0.9	3.3	51	2.6	3.1	<0.5
3208332	Drill Core	4.87	6	<3	3	4.2	59.1	135.8	1025	0.5	41.6	7.2	303	2.69	24	0.8	2.8	43	2.4	2.1	<0.5
3208333	Drill Core	6.17	9	<3	3	12.4	87.1	181.4	129	1.1	67.8	10.3	63	2.57	37	0.9	4.6	28	<0.5	5.2	<0.5
3208334	Drill Core	6.91	7	3	6	7.2	58.8	120.9	92	0.7	65.3	8.7	47	2.65	23	0.9	3.9	27	0.5	3.5	<0.5
3208335	Rock	0.90	2	<3	<2	0.9	9.6	1.2	38	<0.5	2.0	5.0	657	2.09	<5	<0.5	2.0	32	<0.5	<0.5	<0.5
3208336	Drill Core	8.46	18	8	20	30.0	78.1	200.3	344	1.0	78.9	9.3	82	2.22	40	1.4	5.7	29	1.2	5.7	<0.5
3208337	Drill Core	7.13	11	<3	3	25.6	141.8	180.4	2148	0.9	73.2	9.2	65	2.88	39	1.0	4.6	22	9.5	5.8	<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
3208308	Drill Core	51	<0.01	0.063	28.3	20.7	0.10	326	0.002	0.74	<0.01	0.22	<0.5	<0.05	4.9	<0.5	0.08	<5	8	76.90	9.72
3208309	Drill Core	58	<0.01	0.075	33.9	23.3	0.11	374	0.002	0.91	0.02	0.26	<0.5	0.15	4.2	<0.5	0.06	<5	5	74.70	11.20
3208310	Drill Core	59	0.03	0.077	30.7	23.0	0.18	304	0.002	1.04	0.01	0.21	<0.5	0.14	3.4	1.0	<0.05	<5	4	73.90	11.00
3208311	Rock Pulp	134	3.02	0.043	3.9	27.7	1.79	157	0.189	3.29	0.15	0.24	1.2	0.31	16.0	1.1	4.37	8	40	47.20	12.20
3208312	Drill Core	54	0.01	0.060	32.0	22.3	0.14	361	0.002	0.92	0.02	0.27	<0.5	0.17	4.4	<0.5	0.12	<5	13	75.20	11.20
3208313	Drill Core	50	0.02	0.070	30.0	19.8	0.07	354	0.002	0.73	<0.01	0.26	<0.5	0.07	4.9	<0.5	0.14	<5	16	77.60	10.40
3208314	Drill Core	38	0.04	0.041	18.6	14.3	0.07	300	0.002	0.54	<0.01	0.17	<0.5	0.20	2.6	0.5	0.23	<5	6	82.90	7.51
3208315	Drill Core	20	<0.01	0.001	21.3	6.4	<0.01	498	0.003	0.35	<0.01	0.20	<0.5	0.37	1.8	<0.5	2.25	<5	23	76.80	8.93
3208316	Drill Core	21	<0.01	0.004	21.3	7.8	<0.01	518	0.002	0.38	0.02	0.22	<0.5	0.33	2.0	<0.5	2.30	<5	19	77.70	8.56
3208317	Drill Core	18	<0.01	0.006	21.4	7.8	<0.01	495	0.002	0.37	<0.01	0.21	<0.5	0.34	2.2	<0.5	2.09	<5	9	78.10	8.41
3208318	Drill Core	25	<0.01	0.037	22.5	19.0	<0.01	404	0.002	0.35	<0.01	0.23	<0.5	0.28	4.3	1.2	1.21	<5	9	79.90	7.50
3208319	Drill Core	20	<0.01	0.011	20.2	8.6	<0.01	495	0.002	0.36	0.02	0.20	<0.5	0.18	2.2	1.0	3.08	<5	7	76.10	8.34
3208320	Drill Core	23	<0.01	0.007	23.6	10.4	<0.01	525	0.002	0.40	0.02	0.23	<0.5	0.27	2.8	1.0	2.54	<5	4	75.00	9.55
3208321	Drill Core	28	<0.01	0.015	24.9	11.1	0.01	403	0.002	0.37	<0.01	0.20	<0.5	0.19	4.1	1.0	2.45	<5	5	75.50	9.38
3208322	Drill Core	23	<0.01	0.007	20.0	7.6	<0.01	522	0.002	0.37	<0.01	0.20	<0.5	0.48	2.4	0.9	2.61	<5	4	74.90	9.68
3208323	Drill Core	14	<0.01	0.008	11.9	7.8	<0.01	358	0.002	0.28	<0.01	0.14	<0.5	<0.05	2.7	<0.5	1.45	<5	5	86.40	5.56
3208324	Drill Core	27	<0.01	0.019	16.1	9.9	<0.01	527	0.002	0.38	<0.01	0.16	<0.5	0.64	2.9	1.3	2.82	<5	5	77.70	7.81
3208325	Drill Core	26	<0.01	0.020	19.3	12.4	0.01	671	0.002	0.45	<0.01	0.20	<0.5	0.22	2.4	1.0	2.33	<5	6	77.70	8.51
3208326	Drill Core	28	<0.01	0.014	21.0	10.5	0.01	673	0.002	0.44	<0.01	0.21	<0.5	0.32	1.8	2.3	3.62	<5	9	71.30	10.20
3208327	Drill Core	20	0.05	0.050	20.6	9.9	<0.01	493	0.001	0.34	<0.01	0.15	<0.5	0.21	2.2	0.7	3.29	<5	7	79.50	7.18
3208328	Drill Core	24	0.10	0.067	14.9	8.1	0.01	519	0.002	0.40	<0.01	0.17	<0.5	0.10	3.1	<0.5	7.76	<5	7	68.80	8.79
3208329	Drill Core	24	0.07	0.052	15.6	9.2	0.01	580	0.002	0.38	<0.01	0.17	<0.5	0.28	2.3	<0.5	4.20	<5	7	77.30	7.85
3208330	Drill Core	22	0.07	0.046	15.2	8.9	<0.01	552	0.002	0.38	<0.01	0.17	<0.5	0.27	1.5	0.8	4.70	<5	6	75.40	8.21
3208331	Drill Core	20	0.22	0.061	11.3	8.4	0.06	391	0.002	0.27	<0.01	0.11	<0.5	0.17	2.1	<0.5	2.48	<5	5	83.20	5.31
3208332	Drill Core	28	0.14	0.075	11.1	8.0	0.03	393	0.001	0.35	<0.01	0.11	<0.5	0.10	2.4	<0.5	1.72	<5	6	85.20	4.88
3208333	Drill Core	26	0.06	0.063	14.8	10.3	<0.01	521	0.002	0.34	<0.01	0.14	<0.5	0.25	1.5	0.9	2.42	<5	5	79.20	8.04
3208334	Drill Core	21	0.13	0.074	14.7	7.6	0.01	598	0.002	0.38	<0.01	0.14	<0.5	0.16	0.8	<0.5	2.72	<5	6	81.20	7.13
3208335	Rock	30	0.91	0.048	5.8	3.0	0.54	62	0.109	1.19	0.14	0.13	<0.5	<0.05	4.1	<0.5	<0.05	<5	<2	70.00	13.90
3208336	Drill Core	31	0.11	0.068	20.4	7.3	0.01	627	0.002	0.39	<0.01	0.17	<0.5	0.22	2.5	0.8	2.22	<5	6	75.70	9.39
3208337	Drill Core	24	0.08	0.058	16.0	7.0	0.01	554	0.005	0.34	<0.01	0.15	<0.5	0.45	2.1	0.8	3.10	<5	10	75.50	8.44



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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	TC006	TC000	TC000
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.01	-5.11	0.01	0.02
3208308	Drill Core	5.71	0.03	0.36	2.08	0.02	0.53	0.15	0.01	0.29	<0.01	0.01	0.06	3.59	99.63	<0.02	1.03	0.09
3208309	Drill Core	5.44	0.03	0.38	2.33	0.02	0.60	0.18	0.01	0.32	<0.01	0.01	0.05	4.01	99.46	0.04	1.15	0.08
3208310	Drill Core	6.70	0.05	0.53	2.17	0.02	0.59	0.18	0.01	0.29	0.01	0.01	0.08	3.91	99.62	0.03	0.89	0.07
3208311	Rock Pulp	18.50	6.33	3.46	0.49	0.20	0.54	0.10	<0.01	0.02	1.29	0.01	0.14	6.22	99.33	1.97	0.70	4.45
3208312	Drill Core	5.34	0.03	0.45	2.37	0.02	0.61	0.14	0.01	0.33	<0.01	0.01	0.07	3.91	99.90	<0.02	1.21	0.14
3208313	Drill Core	3.97	0.05	0.31	2.19	0.02	0.56	0.17	0.01	0.32	<0.01	0.01	0.05	3.48	99.31	0.04	1.08	0.14
3208314	Drill Core	2.81	0.07	0.28	1.63	0.02	0.41	0.09	0.01	0.26	<0.01	0.01	0.03	3.26	99.41	0.04	1.63	0.24
3208315	Drill Core	3.27	0.02	0.22	2.08	0.02	0.49	<0.01	0.01	0.36	<0.01	0.01	<0.01	7.37	99.77	0.05	4.39	2.21
3208316	Drill Core	3.30	0.02	0.20	1.98	0.02	0.46	<0.01	<0.01	0.34	<0.01	<0.01	<0.01	6.73	99.51	0.04	3.86	2.23
3208317	Drill Core	3.04	0.02	0.20	1.97	0.02	0.44	<0.01	0.02	0.35	<0.01	0.01	<0.01	6.81	99.59	0.04	4.00	2.04
3208318	Drill Core	2.61	0.02	0.18	1.75	0.02	0.39	0.08	<0.01	0.31	<0.01	<0.01	<0.01	5.68	98.60	0.03	3.48	1.13
3208319	Drill Core	4.36	0.02	0.21	1.94	0.02	0.43	0.02	0.01	0.39	0.02	<0.01	<0.01	7.36	99.43	0.05	4.01	3.06
3208320	Drill Core	3.69	0.02	0.24	2.22	0.02	0.50	0.02	0.01	0.45	<0.01	0.02	<0.01	7.74	99.68	0.03	4.37	2.52
3208321	Drill Core	3.56	0.03	0.25	2.06	0.02	0.48	0.04	0.02	0.42	<0.01	0.02	<0.01	7.84	99.82	0.03	4.78	2.36
3208322	Drill Core	3.63	0.02	0.24	2.18	0.02	0.50	0.06	0.01	0.51	<0.01	0.01	<0.01	7.75	99.72	0.05	4.47	2.62
3208323	Drill Core	2.37	0.02	0.14	1.22	0.02	0.28	0.03	<0.01	0.30	<0.01	0.01	<0.01	2.66	99.15	0.04	0.98	1.39
3208324	Drill Core	4.08	0.03	0.21	1.72	0.02	0.38	0.04	<0.01	0.60	<0.01	0.01	0.14	6.23	99.19	0.04	3.17	2.76
3208325	Drill Core	3.40	0.02	0.25	1.87	0.02	0.42	0.04	0.01	0.67	<0.01	0.02	<0.01	6.15	99.29	0.04	3.40	2.31
3208326	Drill Core	4.92	<0.01	0.31	2.27	0.03	0.53	0.04	0.01	0.83	<0.01	0.02	<0.01	8.70	99.40	0.03	4.80	3.66
3208327	Drill Core	4.63	0.07	0.22	1.56	0.03	0.39	0.11	0.01	0.61	<0.01	0.02	<0.01	4.77	99.25	0.02	1.53	3.25
3208328	Drill Core	10.40	0.15	0.27	1.93	0.03	0.49	0.16	0.01	0.72	<0.01	0.02	0.01	7.16	99.16	<0.02	0.99	7.89
3208329	Drill Core	5.96	0.12	0.25	1.76	0.03	0.44	0.13	0.01	0.64	<0.01	<0.01	0.01	4.84	99.52	0.03	0.95	4.28
3208330	Drill Core	6.31	0.09	0.26	1.82	0.03	0.46	0.11	0.01	0.67	<0.01	0.02	<0.01	5.83	99.41	<0.02	1.66	4.70
3208331	Drill Core	4.36	0.32	0.26	1.16	0.05	0.30	0.13	<0.01	0.46	<0.01	0.02	0.06	3.68	99.46	0.38	1.28	2.52
3208332	Drill Core	3.76	0.23	0.19	1.04	0.06	0.27	0.16	<0.01	0.41	<0.01	0.01	0.10	3.03	99.49	0.43	1.01	1.66
3208333	Drill Core	3.71	0.11	0.25	1.75	0.03	0.43	0.17	0.01	0.70	<0.01	0.02	0.01	4.41	99.00	<0.02	1.82	2.49
3208334	Drill Core	3.82	0.18	0.23	1.57	0.03	0.38	0.17	<0.01	0.64	<0.01	<0.01	<0.01	3.84	99.38	0.03	1.23	2.69
3208335	Rock	3.50	2.60	1.07	1.86	0.12	0.38	0.10	<0.01	0.08	<0.01	<0.01	<0.01	1.07	99.11	0.41	0.13	<0.02
3208336	Drill Core	3.30	0.17	0.31	2.08	0.03	0.47	0.16	0.01	0.83	<0.01	0.02	0.03	6.74	99.47	0.05	4.05	2.30
3208337	Drill Core	4.15	0.12	0.28	1.88	0.03	0.41	0.14	<0.01	0.76	<0.01	0.01	0.22	7.08	99.27	0.03	4.02	3.07



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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
3208338	Drill Core	7.51	12	<3	8	29.1	58.9	137.2	43	1.2	75.5	10.9	64	2.77	40	1.0	5.8	22	<0.5	7.3	<0.5
3208339	Drill Core	7.05	7	<3	4	5.2	47.9	71.6	32	0.8	37.1	7.4	43	1.76	15	0.9	5.6	20	<0.5	3.3	<0.5
3208340	Drill Core	6.10	13	6	4	24.3	79.7	146.0	71	1.5	74.6	10.2	67	2.67	34	1.8	5.6	61	<0.5	7.2	<0.5
3208341	Drill Core	7.94	15	<3	4	15.9	90.1	155.7	45	1.9	76.8	10.7	67	3.16	33	1.1	4.9	40	<0.5	6.7	<0.5
3208342	Drill Core	5.34	7	<3	3	3.7	50.4	48.5	1677	0.5	54.3	7.3	569	2.90	20	<0.5	2.5	138	2.4	2.1	<0.5
3208343	Drill Core	6.98	6	<3	3	3.2	67.8	53.3	916	<0.5	43.8	6.9	288	2.16	15	0.7	2.7	61	1.1	2.0	<0.5
3208344	Drill Core	7.16	6	<3	2	3.5	120.7	64.2	934	0.5	40.4	7.3	223	2.18	15	0.7	2.8	45	1.5	2.1	<0.5
3208345	Drill Core	6.52	6	<3	<2	3.2	81.2	66.0	529	0.5	37.4	6.1	192	1.89	11	0.7	3.1	74	1.7	1.9	<0.5
3208346	Drill Core	7.33	6	<3	3	2.7	59.0	64.4	1630	<0.5	40.6	7.3	573	2.79	9	0.5	2.5	121	1.3	1.7	<0.5
3208347	Drill Core	5.37	6	<3	2	3.2	59.2	68.0	285	0.5	35.4	5.9	437	2.32	11	<0.5	2.7	161	<0.5	1.8	<0.5
3208348	Drill Core	5.08	7	<3	3	3.7	59.8	83.8	716	0.6	41.0	8.1	395	2.31	13	0.7	3.7	124	0.6	2.3	<0.5
3208349	Drill Core	7.08	7	<3	7	9.3	66.0	102.3	392	0.7	58.1	8.7	117	2.01	21	0.8	4.4	33	2.2	3.2	<0.5
3208350	Drill Core	8.10	7	<3	5	6.2	64.8	77.6	225	0.7	53.6	8.2	210	2.02	16	1.0	5.4	33	1.9	3.0	<0.5
3208351	Drill Core	7.20	7	<3	6	7.2	71.2	84.8	92	0.7	50.4	9.0	66	1.88	19	0.8	5.3	26	1.6	2.9	<0.5
3208352	Rock Pulp	0.09	139	<3	6	1.9	926.0	67.6	5314	2.0	19.2	37.9	1362	8.39	88	<0.5	0.8	75	14.1	4.8	<0.5
3208353	Drill Core	8.39	9	<3	4	6.2	104.1	101.4	139	0.8	55.7	10.6	51	1.97	20	1.8	5.7	53	1.7	3.7	<0.5
3208354	Drill Core	7.89	9	7	5	8.6	107.3	126.8	161	0.7	56.7	8.3	66	2.47	18	0.9	4.8	42	2.4	3.2	<0.5
3208355	Drill Core	7.91	6	<3	<2	6.3	107.7	102.9	153	0.7	49.0	8.9	56	1.80	18	1.1	5.4	40	2.1	2.8	<0.5
3208356	Drill Core	6.43	5	<3	4	4.1	80.0	55.0	488	<0.5	37.0	5.9	641	2.96	12	0.7	2.7	257	1.4	2.0	<0.5
3208357	Drill Core	3.24	5	<3	2	3.6	75.7	70.2	697	<0.5	36.8	5.7	832	3.48	10	0.6	2.4	337	1.5	1.9	<0.5
3208358	Drill Core	7.46	13	<3	3	5.0	105.5	69.5	61	0.7	43.4	7.3	38	1.42	18	1.2	5.7	27	0.7	3.2	<0.5
3208359	Drill Core	7.32	7	<3	3	4.9	110.3	55.4	116	0.6	49.9	7.0	52	1.63	16	1.5	4.1	34	<0.5	2.5	<0.5
3208360	Drill Core	7.98	10	<3	6	19.1	93.2	92.4	281	1.2	78.2	10.5	191	2.46	34	1.4	4.2	57	1.3	5.3	<0.5
3208361	Drill Core	6.54	5	<3	3	3.4	61.0	47.9	50	<0.5	28.9	5.2	152	2.15	15	1.4	3.5	21	1.6	2.0	<0.5
3208362	Drill Core	6.57	5	<3	<2	3.2	52.7	52.6	134	0.6	32.6	5.1	138	2.40	14	0.8	2.6	17	1.8	1.8	<0.5
3208363	Drill Core	7.05	4	<3	<2	2.2	63.0	36.2	853	<0.5	37.5	5.0	284	2.16	15	0.9	1.3	54	1.4	1.3	<0.5
3208364	Drill Core	7.41	4	<3	<2	4.0	53.1	39.8	372	<0.5	41.8	4.4	283	2.48	20	1.2	1.6	114	3.5	1.8	<0.5
3208365	Drill Core	7.43	8	<3	5	13.5	92.5	95.1	64	0.9	55.4	7.8	62	1.89	24	1.8	3.8	26	<0.5	4.0	<0.5
3208366	Drill Core	5.55	7	<3	<2	12.0	124.6	80.4	109	0.8	55.9	7.5	77	1.77	25	1.5	3.7	23	<0.5	4.2	<0.5
3208367	Drill Core	6.29	11	<3	8	14.4	217.1	87.6	448	0.8	56.0	5.9	145	2.29	29	1.2	3.6	36	1.0	4.3	<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	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01
3208338	Drill Core	25	0.08	0.050	20.7	9.3	0.01	609	0.002	0.35	<0.01	0.16	<0.5	0.26	1.6	1.2	2.82	<5	7	74.80	9.27
3208339	Drill Core	23	0.09	0.055	19.2	9.3	0.01	693	0.003	0.39	<0.01	0.17	<0.5	0.07	1.6	0.5	1.80	<5	4	80.30	8.82
3208340	Drill Core	45	0.21	0.122	22.9	14.7	0.01	751	0.003	0.45	<0.01	0.19	<0.5	0.16	2.4	1.2	2.80	<5	6	73.10	10.10
3208341	Drill Core	29	0.11	0.069	16.3	11.1	0.01	630	0.002	0.38	<0.01	0.17	<0.5	0.15	1.6	1.2	3.22	<5	5	76.40	8.40
3208342	Drill Core	32	1.08	0.060	9.5	12.4	0.41	423	0.002	0.27	<0.01	0.10	<0.5	0.08	2.8	<0.5	1.59	<5	4	82.20	4.16
3208343	Drill Core	27	0.41	0.069	10.0	12.0	0.14	470	0.002	0.31	<0.01	0.11	<0.5	<0.05	2.0	<0.5	1.38	<5	4	85.20	4.85
3208344	Drill Core	24	0.20	0.081	9.8	11.0	0.04	468	0.001	0.30	<0.01	0.11	<0.5	<0.05	2.1	<0.5	1.50	<5	3	85.50	5.05
3208345	Drill Core	27	0.42	0.087	10.9	11.1	0.14	470	0.002	0.35	<0.01	0.11	<0.5	<0.05	1.9	<0.5	1.36	<5	3	84.40	4.94
3208346	Drill Core	31	1.08	0.049	9.6	10.9	0.40	452	0.004	0.26	<0.01	0.11	<0.5	<0.05	2.5	<0.5	1.40	<5	6	81.80	4.49
3208347	Drill Core	32	1.56	0.047	10.3	11.0	0.55	451	0.002	0.25	<0.01	0.11	<0.5	<0.05	2.9	<0.5	1.34	<5	3	81.20	4.64
3208348	Drill Core	34	1.04	0.051	14.1	10.4	0.40	594	0.002	0.30	<0.01	0.14	<0.5	0.06	2.7	<0.5	1.53	<5	5	80.80	5.94
3208349	Drill Core	28	0.16	0.057	15.8	8.9	0.03	633	0.002	0.36	<0.01	0.15	<0.5	0.06	1.7	0.6	1.79	<5	4	80.60	7.85
3208350	Drill Core	29	0.14	0.078	20.3	10.3	0.02	745	0.002	0.44	<0.01	0.18	<0.5	0.13	2.1	0.6	1.72	<5	3	79.70	8.73
3208351	Drill Core	24	0.13	0.067	19.6	8.3	0.01	727	0.002	0.40	<0.01	0.17	<0.5	0.12	2.8	0.6	1.81	<5	3	81.40	8.15
3208352	Rock Pulp	149	3.89	0.065	5.3	26.6	2.19	124	0.174	3.52	0.14	0.23	1.0	0.40	21.8	0.5	1.62	9	7	51.40	13.10
3208353	Drill Core	26	0.18	0.115	20.2	13.8	0.01	773	0.002	0.50	<0.01	0.18	<0.5	<0.05	2.7	0.6	1.95	<5	5	79.70	8.97
3208354	Drill Core	28	0.14	0.087	16.8	10.8	0.01	644	0.002	0.42	<0.01	0.15	<0.5	<0.05	2.6	0.5	2.44	<5	5	80.30	7.98
3208355	Drill Core	26	0.13	0.077	19.8	10.0	0.01	746	0.002	0.43	<0.01	0.17	<0.5	0.06	2.1	0.5	1.70	<5	3	81.40	8.14
3208356	Drill Core	29	2.14	0.055	10.7	7.4	0.86	503	0.002	0.27	<0.01	0.11	<0.5	<0.05	4.1	<0.5	2.05	<5	4	77.20	5.12
3208357	Drill Core	29	2.73	0.052	9.4	7.5	1.10	425	0.002	0.23	<0.01	0.10	<0.5	<0.05	3.7	<0.5	2.36	<5	5	74.30	4.56
3208358	Drill Core	25	0.14	0.073	19.9	10.4	0.01	738	0.002	0.42	<0.01	0.17	<0.5	0.15	1.8	0.6	1.41	<5	3	81.20	8.65
3208359	Drill Core	21	0.11	0.069	14.6	10.1	<0.01	568	0.002	0.35	<0.01	0.13	<0.5	0.08	2.2	0.6	1.51	<5	<2	84.00	6.95
3208360	Drill Core	41	0.40	0.078	15.6	11.6	0.13	695	0.003	0.38	<0.01	0.17	<0.5	0.10	2.2	0.9	2.24	<5	3	77.50	8.05
3208361	Drill Core	23	0.12	0.075	14.9	10.0	<0.01	697	0.002	0.38	<0.01	0.16	<0.5	0.05	1.2	<0.5	2.05	<5	3	84.30	6.22
3208362	Drill Core	17	0.12	0.069	10.9	7.6	<0.01	502	0.002	0.28	<0.01	0.11	<0.5	0.09	1.4	<0.5	2.26	<5	6	85.90	4.93
3208363	Drill Core	21	0.43	0.049	5.9	8.1	0.17	311	0.001	0.23	<0.01	0.07	<0.5	<0.05	1.7	<0.5	1.50	<5	<2	87.20	3.38
3208364	Drill Core	36	0.99	0.059	6.4	9.9	0.39	352	0.001	0.29	<0.01	0.08	<0.5	<0.05	3.0	<0.5	2.06	<5	3	83.50	4.02
3208365	Drill Core	27	0.14	0.092	14.2	11.4	<0.01	552	0.002	0.41	<0.01	0.12	<0.5	0.14	1.7	0.5	1.99	<5	3	79.40	8.10
3208366	Drill Core	30	0.13	0.105	14.7	12.0	<0.01	605	0.002	0.42	<0.01	0.13	<0.5	0.15	2.6	0.7	1.85	<5	2	80.70	7.70
3208367	Drill Core	43	0.26	0.084	15.4	10.7	0.07	593	0.002	0.36	<0.01	0.13	<0.5	0.08	1.9	0.6	2.23	<5	3	79.80	7.52



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**Project:** MacMillan Pass  
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Method Analyte Unit MDL		LF725	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
3208338	Drill Core	4.03	0.11	0.30	2.05	0.03	0.48	0.13	<0.01	0.82	<0.01	<0.01	<0.01	7.01	99.27	<0.02	3.89	2.97	
3208339	Drill Core	2.66	0.10	0.28	1.92	0.03	0.49	0.12	0.01	0.82	<0.01	<0.01	<0.01	3.56	99.31	<0.02	1.19	1.76	
3208340	Drill Core	3.88	0.33	0.33	2.21	0.03	0.51	0.30	0.02	0.91	<0.01	0.01	<0.01	7.52	99.48	<0.02	4.28	2.81	
3208341	Drill Core	4.47	0.15	0.27	1.86	0.03	0.44	0.16	<0.01	0.76	<0.01	0.01	<0.01	6.16	99.31	<0.02	2.94	3.28	
3208342	Drill Core	4.10	1.46	0.77	0.91	0.09	0.23	0.14	<0.01	0.38	<0.01	<0.01	0.17	4.12	98.87	2.24	1.52	1.52	
3208343	Drill Core	3.17	0.61	0.39	1.04	0.06	0.27	0.17	<0.01	0.45	<0.01	<0.01	0.09	3.12	99.54	0.87	1.18	1.44	
3208344	Drill Core	3.12	0.28	0.22	1.09	0.05	0.27	0.19	<0.01	0.46	<0.01	<0.01	0.09	2.89	99.37	0.44	1.01	1.51	
3208345	Drill Core	2.71	0.61	0.36	1.04	0.04	0.26	0.21	<0.01	0.44	<0.01	<0.01	0.05	3.06	98.20	0.68	1.06	1.32	
3208346	Drill Core	3.97	1.48	0.76	0.98	0.09	0.25	0.12	<0.01	0.41	<0.01	<0.01	0.16	4.24	98.93	2.29	1.59	1.41	
3208347	Drill Core	3.33	2.09	1.04	1.03	0.07	0.27	0.11	<0.01	0.43	<0.01	<0.01	0.03	4.51	98.88	2.82	1.67	1.28	
3208348	Drill Core	3.34	1.40	0.79	1.32	0.07	0.34	0.11	<0.01	0.57	<0.01	<0.01	0.07	4.23	99.14	1.76	1.55	1.55	
3208349	Drill Core	2.95	0.21	0.28	1.71	0.04	0.42	0.15	0.01	0.74	<0.01	<0.01	0.04	4.17	99.36	0.16	1.89	1.78	
3208350	Drill Core	2.89	0.18	0.30	1.91	0.05	0.48	0.16	<0.01	0.82	<0.01	<0.01	0.02	3.68	99.11	0.20	1.44	1.72	
3208351	Drill Core	2.67	0.17	0.27	1.79	0.03	0.47	0.15	<0.01	0.76	<0.01	<0.01	<0.01	3.34	99.41	0.05	1.16	1.74	
3208352	Rock Pulp	13.00	6.88	3.96	0.53	0.21	0.60	0.13	<0.01	0.03	0.09	<0.01	0.54	5.46	98.65	0.04	0.98	1.55	
3208353	Drill Core	2.88	0.21	0.29	1.94	0.03	0.51	0.27	<0.01	0.84	<0.01	<0.01	0.01	3.69	99.57	2.91	1.17	1.90	
3208354	Drill Core	3.48	0.20	0.27	1.73	0.03	0.44	0.19	<0.01	0.75	<0.01	0.01	0.01	4.11	99.69	0.05	1.50	2.41	
3208355	Drill Core	2.61	0.17	0.27	1.78	0.03	0.46	0.17	0.01	0.77	<0.01	<0.01	0.01	3.42	99.43	0.04	1.27	1.70	
3208356	Drill Core	4.15	2.80	1.54	1.10	0.09	0.29	0.13	<0.01	0.51	<0.01	<0.01	0.05	5.65	98.77	3.59	1.87	2.02	
3208357	Drill Core	5.01	3.55	1.93	1.00	0.12	0.26	0.12	<0.01	0.45	<0.01	<0.01	0.07	6.62	98.11	4.81	2.30	2.35	
3208358	Drill Core	2.13	0.18	0.28	1.88	0.03	0.48	0.18	<0.01	0.82	<0.01	<0.01	<0.01	3.20	99.23	0.03	1.07	1.39	
3208359	Drill Core	2.36	0.14	0.23	1.49	0.03	0.38	0.16	<0.01	0.66	<0.01	<0.01	<0.01	2.85	99.42	0.04	1.00	1.50	
3208360	Drill Core	3.51	0.62	0.46	1.77	0.04	0.43	0.17	0.01	0.76	<0.01	<0.01	0.03	5.70	99.26	0.59	3.03	2.37	
3208361	Drill Core	3.00	0.21	0.20	1.37	0.04	0.35	0.17	<0.01	0.61	<0.01	<0.01	<0.01	2.92	99.55	0.02	0.81	2.07	
3208362	Drill Core	3.30	0.16	0.16	1.06	0.04	0.27	0.13	<0.01	0.49	<0.01	<0.01	0.01	2.85	99.43	0.06	0.79	2.38	
3208363	Drill Core	3.26	0.65	0.38	0.71	0.06	0.16	0.11	<0.01	0.34	<0.01	<0.01	0.09	2.67	99.11	1.08	0.82	1.61	
3208364	Drill Core	3.80	1.44	0.79	0.83	0.06	0.19	0.13	<0.01	0.40	0.01	<0.01	0.04	3.77	99.10	1.84	1.21	2.16	
3208365	Drill Core	2.93	0.20	0.25	1.75	0.03	0.39	0.22	0.01	0.80	<0.01	<0.01	<0.01	4.99	99.27	0.02	2.42	2.13	
3208366	Drill Core	2.77	0.20	0.25	1.67	0.03	0.38	0.22	0.01	0.76	<0.01	<0.01	0.01	4.62	99.51	0.06	2.16	2.01	
3208367	Drill Core	3.58	0.40	0.34	1.65	0.04	0.39	0.20	0.01	0.73	0.02	<0.01	0.04	4.90	99.81	0.32	2.12	2.42	



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**Project:** MacMillan Pass

**Report Date:** November 18, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000943.1

	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
3208368	Drill Core	5.52	10	<3	6	26.5	104.0	110.2	88	1.4	83.1	8.2	79	1.89	40	1.9	5.6	28	0.7	7.4	<0.5
3208369	Drill Core	5.24	10	5	9	20.9	113.8	84.0	98	1.1	73.0	7.5	71	1.78	33	1.7	4.8	24	0.8	5.5	<0.5
3208370	Drill Core	4.48	10	<3	8	15.7	55.6	83.3	81	1.0	64.7	7.8	83	2.03	34	1.4	5.6	19	1.0	5.7	<0.5
3208371	Drill Core	6.20	3	<3	2	1.3	19.7	27.9	1066	<0.5	31.9	3.5	194	2.05	20	1.2	0.7	40	1.9	1.1	<0.5
3208372	Drill Core	8.05	3	<3	4	3.1	26.8	51.6	2416	<0.5	46.9	6.0	680	3.21	33	1.7	1.3	100	2.3	1.5	<0.5
3208373	Drill Core	7.12	9	<3	4	12.4	65.4	84.9	1400	0.6	55.3	5.9	383	2.91	52	2.4	2.4	51	2.3	4.6	<0.5
3208374	Drill Core	7.36	8	5	4	16.3	51.7	172.1	693	1.0	66.1	5.9	66	2.07	71	1.8	3.3	24	8.0	8.2	<0.5
3208375	Drill Core	7.19	10	5	7	20.8	75.0	157.3	3747	1.3	70.8	6.4	70	1.97	42	1.7	4.2	25	14.4	10.8	<0.5
3208376	Drill Core	7.23	10	<3	8	17.4	64.9	211.6	1991	1.4	66.3	6.2	55	2.56	48	2.5	4.0	48	20.4	11.5	<0.5
3208377	Drill Core	6.69	9	6	6	18.4	62.3	338.5	2338	1.4	63.6	5.7	30	2.40	63	2.6	3.4	52	18.5	12.9	<0.5
3208378	Drill Core	7.52	16	<3	10	18.0	68.4	89.5	279	1.6	77.3	6.9	54	2.19	48	2.2	5.5	54	1.2	19.0	<0.5
3208379	Drill Core	7.03	16	6	7	8.6	54.1	73.7	271	1.3	62.6	8.9	328	3.25	33	1.3	6.0	61	<0.5	14.3	<0.5
3208380	Drill Core	8.37	12	4	4	9.8	63.6	69.6	163	1.4	72.2	10.4	161	2.68	40	1.4	7.1	51	<0.5	14.4	<0.5





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# CERTIFICATE OF ANALYSIS

WHI18000943.1

Method Analyte Unit MDL	AQ270																				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		
3208368	Drill Core	65	0.22	0.096	23.5	13.6	0.02	943	0.003	0.49	<0.01	0.20	<0.5	0.17	1.4	1.1	2.07	<5	4	75.30	10.00	
3208369	Drill Core	52	0.17	0.105	19.3	11.7	0.01	818	0.002	0.43	<0.01	0.16	<0.5	0.18	1.3	1.0	1.91	<5	3	78.00	8.88	
3208370	Drill Core	52	0.16	0.087	19.8	11.3	0.01	797	0.002	0.45	<0.01	0.16	<0.5	0.15	1.5	0.8	2.17	<5	5	75.50	10.30	
3208371	Drill Core	25	0.35	0.056	3.5	7.1	0.13	263	<0.001	0.19	<0.01	0.04	<0.5	<0.05	1.7	<0.5	1.39	<5	<2	89.00	2.33	
3208372	Drill Core	41	1.20	0.069	4.7	11.3	0.48	309	<0.001	0.27	<0.01	0.05	<0.5	<0.05	2.9	<0.5	1.57	<5	<2	81.30	3.10	
3208373	Drill Core	58	0.54	0.159	10.6	17.1	0.17	653	0.002	0.55	<0.01	0.08	<0.5	0.10	1.4	0.6	2.16	<5	3	78.50	6.51	
3208374	Drill Core	71	0.18	0.107	15.6	13.1	0.01	1180	0.003	0.44	<0.01	0.14	<0.5	0.21	2.4	0.8	2.23	<5	5	79.00	7.94	
3208375	Drill Core	88	0.21	0.114	16.4	14.5	0.02	1494	0.004	0.52	<0.01	0.17	<0.5	0.67	1.2	1.1	2.34	<5	7	76.70	9.13	
3208376	Drill Core	70	0.17	0.131	14.8	17.5	0.01	1170	0.003	0.52	<0.01	0.15	<0.5	0.56	2.0	3.1	2.95	<5	5	75.80	9.06	
3208377	Drill Core	60	0.15	0.139	14.5	18.2	0.01	920	0.002	0.49	<0.01	0.10	<0.5	0.61	1.7	1.9	2.80	<5	5	78.10	8.03	
3208378	Drill Core	63	0.22	0.122	20.7	11.5	0.01	820	0.003	0.43	<0.01	0.17	<0.5	0.47	1.5	1.1	2.42	<5	7	75.70	9.68	
3208379	Drill Core	38	0.15	0.087	20.0	6.5	0.02	784	0.002	0.42	<0.01	0.16	<0.5	0.51	1.5	1.0	3.47	<5	5	73.40	9.85	
3208380	Drill Core	36	0.20	0.120	23.5	6.7	0.02	827	0.004	0.43	<0.01	0.17	<0.5	0.29	1.3	0.8	2.87	<5	5	73.10	10.90	



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**Project:** MacMillan Pass  
**Report Date:** November 18, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000943.1

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	0.01	0.02	0.02	0.02
3208368	Drill Core	3.03	0.30	0.33	2.22	0.03	0.51	0.23	0.02	0.98	<0.01	<0.01	<0.01	6.35	99.55	0.03	2.28
3208369	Drill Core	2.85	0.29	0.29	1.97	0.03	0.47	0.23	0.02	0.88	<0.01	<0.01	<0.01	5.41	99.54	0.04	2.11
3208370	Drill Core	3.25	0.26	0.34	2.29	0.03	0.55	0.21	0.02	1.01	<0.01	<0.01	<0.01	5.27	99.29	0.05	2.38
3208371	Drill Core	3.07	0.55	0.29	0.48	0.05	0.12	0.13	<0.01	0.24	<0.01	<0.01	0.10	2.80	99.22	0.79	1.51
3208372	Drill Core	4.82	1.73	0.90	0.62	0.10	0.15	0.14	<0.01	0.33	<0.01	<0.01	0.25	5.54	99.10	3.17	1.73
3208373	Drill Core	4.45	0.78	0.49	1.27	0.07	0.30	0.34	0.01	0.83	<0.01	<0.01	0.14	5.65	99.55	1.13	2.34
3208374	Drill Core	3.18	0.28	0.31	1.66	0.03	0.41	0.25	0.02	1.18	<0.01	0.02	0.07	4.72	99.31	0.02	2.44
3208375	Drill Core	3.09	0.33	0.34	1.84	0.03	0.47	0.26	0.02	1.43	<0.01	0.01	0.37	5.42	99.79	0.03	2.51
3208376	Drill Core	3.91	0.27	0.30	1.68	0.03	0.45	0.32	0.02	1.32	<0.01	0.01	0.20	5.90	99.54	<0.02	2.42
3208377	Drill Core	3.66	0.22	0.24	1.26	0.03	0.39	0.30	0.02	1.00	<0.01	0.03	0.23	5.96	99.69	<0.02	2.45
3208378	Drill Core	3.49	0.34	0.32	2.22	0.03	0.49	0.26	0.02	0.91	<0.01	<0.01	0.02	6.21	99.91	<0.02	3.34
3208379	Drill Core	5.02	0.24	0.32	2.26	0.06	0.55	0.18	0.02	0.92	<0.01	<0.01	0.02	5.80	98.84	0.19	2.01
3208380	Drill Core	4.26	0.34	0.35	2.52	0.04	0.60	0.25	0.02	0.99	<0.01	<0.01	0.01	5.61	99.24	0.07	2.12



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**Project:**

MacMillan Pass

**Report Date:**

November 18, 2018

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## QUALITY CONTROL REPORT

WHI18000943.1

	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
3208340	Drill Core	6.10	13	6	4	24.3	79.7	146.0	71	1.5	74.6	10.2	67	2.67	34	1.8	5.6	61	<0.5	7.2	<0.5
Pulp Duplicates																					
3208309	Drill Core	7.13	5	<3	3	9.6	89.1	76.1	486	0.6	17.1	1.9	57	3.78	125	0.9	7.5	37	1.0	3.1	<0.5
REP 3208309	QC					10.4	90.7	76.5	492	0.7	18.0	2.0	57	3.80	127	0.9	7.6	37	1.2	3.1	<0.5
3208310	Drill Core	6.26	4	<3	4	7.7	112.2	50.4	703	<0.5	23.2	2.4	59	4.42	139	0.9	7.8	37	1.8	2.4	<0.5
REP 3208310	QC					8.1	112.3	48.9	698	<0.5	21.8	2.3	58	4.38	134	0.9	7.8	36	1.8	2.4	<0.5
3208312	Drill Core	6.76	7	15	23	6.8	37.2	63.5	637	0.6	15.0	1.2	31	3.71	85	0.8	8.0	27	<0.5	2.7	<0.5
REP 3208312	QC		9	<3	6																
3208313	Drill Core	6.56	5	<3	3	6.1	55.1	68.9	473	<0.5	14.9	1.3	25	2.73	71	1.0	6.8	47	0.6	2.6	<0.5
REP 3208313	QC																				
3208324	Drill Core	6.08	11	4	7	25.4	57.4	144.7	1391	1.1	61.8	9.7	47	2.88	34	1.0	4.4	18	8.3	5.9	<0.5
REP 3208324	QC		10	4	4																
3208332	Drill Core	4.87	6	<3	3	4.2	59.1	135.8	1025	0.5	41.6	7.2	303	2.69	24	0.8	2.8	43	2.4	2.1	<0.5
REP 3208332	QC																				
3208333	Drill Core	6.17	9	<3	3	12.4	87.1	181.4	129	1.1	67.8	10.3	63	2.57	37	0.9	4.6	28	<0.5	5.2	<0.5
REP 3208333	QC																				
3208343	Drill Core	6.98	6	<3	3	3.2	67.8	53.3	916	<0.5	43.8	6.9	288	2.16	15	0.7	2.7	61	1.1	2.0	<0.5
REP 3208343	QC					3.2	67.9	55.1	917	0.5	46.8	7.1	295	2.17	16	0.7	2.7	61	1.1	2.1	<0.5
3208344	Drill Core	7.16	6	<3	2	3.5	120.7	64.2	934	0.5	40.4	7.3	223	2.18	15	0.7	2.8	45	1.5	2.1	<0.5
REP 3208344	QC		6	<3	4																
3208346	Drill Core	7.33	6	<3	3	2.7	59.0	64.4	1630	<0.5	40.6	7.3	573	2.79	9	0.5	2.5	121	1.3	1.7	<0.5
REP 3208346	QC																				
3208357	Drill Core	3.24	5	<3	2	3.6	75.7	70.2	697	<0.5	36.8	5.7	832	3.48	10	0.6	2.4	337	1.5	1.9	<0.5
REP 3208357	QC		5	<3	3																
3208364	Drill Core	7.41	4	<3	<2	4.0	53.1	39.8	372	<0.5	41.8	4.4	283	2.48	20	1.2	1.6	114	3.5	1.8	<0.5
REP 3208364	QC																				
3208365	Drill Core	7.43	8	<3	5	13.5	92.5	95.1	64	0.9	55.4	7.8	62	1.89	24	1.8	3.8	26	<0.5	4.0	<0.5
REP 3208365	QC																				
3208370	Drill Core	4.48	10	<3	8	15.7	55.6	83.3	81	1.0	64.7	7.8	83	2.03	34	1.4	5.6	19	1.0	5.7	<0.5



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## QUALITY CONTROL REPORT

WHI18000943.1

	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
3208340	Drill Core	45	0.21	0.122	22.9	14.7	0.01	751	0.003	0.45	<0.01	0.19	<0.5	0.16	2.4	1.2	2.80	<5	6	73.10	10.10
Pulp Duplicates																					
3208309	Drill Core	58	<0.01	0.075	33.9	23.3	0.11	374	0.002	0.91	0.02	0.26	<0.5	0.15	4.2	<0.5	0.06	<5	5	74.70	11.20
REP 3208309	QC	57	<0.01	0.074	33.3	24.2	0.11	372	0.002	0.91	0.02	0.27	<0.5	<0.05	4.1	<0.5	0.06	<5	8		
3208310	Drill Core	59	0.03	0.077	30.7	23.0	0.18	304	0.002	1.04	0.01	0.21	<0.5	0.14	3.4	1.0	<0.05	<5	4	73.90	11.00
REP 3208310	QC	59	0.03	0.071	30.5	23.0	0.18	301	0.002	1.05	0.01	0.20	<0.5	0.17	3.2	0.8	<0.05	<5	4		
3208312	Drill Core	54	0.01	0.060	32.0	22.3	0.14	361	0.002	0.92	0.02	0.27	<0.5	0.17	4.4	<0.5	0.12	<5	13	75.20	11.20
REP 3208312	QC																				
3208313	Drill Core	50	0.02	0.070	30.0	19.8	0.07	354	0.002	0.73	<0.01	0.26	<0.5	0.07	4.9	<0.5	0.14	<5	16	77.60	10.40
REP 3208313	QC																			77.70	10.40
3208324	Drill Core	27	<0.01	0.019	16.1	9.9	<0.01	527	0.002	0.38	<0.01	0.16	<0.5	0.64	2.9	1.3	2.82	<5	5	77.70	7.81
REP 3208324	QC																				
3208332	Drill Core	28	0.14	0.075	11.1	8.0	0.03	393	0.001	0.35	<0.01	0.11	<0.5	0.10	2.4	<0.5	1.72	<5	6	85.20	4.88
REP 3208332	QC																				
3208333	Drill Core	26	0.06	0.063	14.8	10.3	<0.01	521	0.002	0.34	<0.01	0.14	<0.5	0.25	1.5	0.9	2.42	<5	5	79.20	8.04
REP 3208333	QC																			79.40	8.08
3208343	Drill Core	27	0.41	0.069	10.0	12.0	0.14	470	0.002	0.31	<0.01	0.11	<0.5	<0.05	2.0	<0.5	1.38	<5	4	85.20	4.85
REP 3208343	QC	27	0.40	0.066	9.9	12.2	0.14	449	0.003	0.31	<0.01	0.11	<0.5	<0.05	2.3	<0.5	1.38	<5	<2		
3208344	Drill Core	24	0.20	0.081	9.8	11.0	0.04	468	0.001	0.30	<0.01	0.11	<0.5	<0.05	2.1	<0.5	1.50	<5	3	85.50	5.05
REP 3208344	QC																				
3208346	Drill Core	31	1.08	0.049	9.6	10.9	0.40	452	0.004	0.26	<0.01	0.11	<0.5	<0.05	2.5	<0.5	1.40	<5	6	81.80	4.49
REP 3208346	QC																			81.90	4.48
3208357	Drill Core	29	2.73	0.052	9.4	7.5	1.10	425	0.002	0.23	<0.01	0.10	<0.5	<0.05	3.7	<0.5	2.36	<5	5	74.30	4.56
REP 3208357	QC																				
3208364	Drill Core	36	0.99	0.059	6.4	9.9	0.39	352	0.001	0.29	<0.01	0.08	<0.5	<0.05	3.0	<0.5	2.06	<5	3	83.50	4.02
REP 3208364	QC																			83.20	4.02
3208365	Drill Core	27	0.14	0.092	14.2	11.4	<0.01	552	0.002	0.41	<0.01	0.12	<0.5	0.14	1.7	0.5	1.99	<5	3	79.40	8.10
REP 3208365	QC																				
3208370	Drill Core	52	0.16	0.087	19.8	11.3	0.01	797	0.002	0.45	<0.01	0.16	<0.5	0.15	1.5	0.8	2.17	<5	5	75.50	10.30



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**Project:**

MacMillan Pass

**Report Date:**

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## QUALITY CONTROL REPORT

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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	0.01	-5.11	0.01	0.02	0.02
3208340	Drill Core	3.88	0.33	0.33	2.21	0.03	0.51	0.30	0.02	0.91	<0.01	0.01	<0.01	7.52	99.48	<0.02	4.28	2.81
Pulp Duplicates																		
3208309	Drill Core	5.44	0.03	0.38	2.33	0.02	0.60	0.18	0.01	0.32	<0.01	0.01	0.05	4.01	99.46	0.04	1.15	0.08
REP 3208309																		
3208310	Drill Core	6.70	0.05	0.53	2.17	0.02	0.59	0.18	0.01	0.29	0.01	0.01	0.08	3.91	99.62	0.03	0.89	0.07
REP 3208310																		
3208312	Drill Core	5.34	0.03	0.45	2.37	0.02	0.61	0.14	0.01	0.33	<0.01	0.01	0.07	3.91	99.90	<0.02	1.21	0.14
REP 3208312																		
3208313	Drill Core	3.97	0.05	0.31	2.19	0.02	0.56	0.17	0.01	0.32	<0.01	0.01	0.05	3.48	99.31	0.04	1.08	0.14
REP 3208313																		
3208324	Drill Core	4.08	0.03	0.21	1.72	0.02	0.38	0.04	<0.01	0.60	<0.01	0.01	0.14	6.23	99.19	0.04	3.17	2.76
REP 3208324																		
3208332	Drill Core	3.76	0.23	0.19	1.04	0.06	0.27	0.16	<0.01	0.41	<0.01	0.01	0.10	3.03	99.49	0.43	1.01	1.66
REP 3208332																		
3208333	Drill Core	3.71	0.11	0.25	1.75	0.03	0.43	0.17	0.01	0.70	<0.01	0.02	0.01	4.41	99.00	<0.02	1.82	2.49
REP 3208333																		
3208343	Drill Core	3.17	0.61	0.39	1.04	0.06	0.27	0.17	<0.01	0.45	<0.01	<0.01	0.09	3.12	99.54	0.87	1.18	1.44
REP 3208343																		
3208344	Drill Core	3.12	0.28	0.22	1.09	0.05	0.27	0.19	<0.01	0.46	<0.01	<0.01	0.09	2.89	99.37	0.44	1.01	1.51
REP 3208344																		
3208346	Drill Core	3.97	1.48	0.76	0.98	0.09	0.25	0.12	<0.01	0.41	<0.01	<0.01	0.16	4.24	98.93	2.29	1.59	1.41
REP 3208346																		
3208357	Drill Core	5.01	3.55	1.93	1.00	0.12	0.26	0.12	<0.01	0.45	<0.01	<0.01	0.07	6.62	98.11	4.81	2.30	2.35
REP 3208357																		
3208364	Drill Core	3.80	1.44	0.79	0.83	0.06	0.19	0.13	<0.01	0.40	0.01	<0.01	0.04	3.77	99.10	1.84	1.21	2.16
REP 3208364																		
3208365	Drill Core	2.93	0.20	0.25	1.75	0.03	0.39	0.22	0.01	0.80	<0.01	<0.01	<0.01	4.99	99.27	0.02	2.42	2.13
REP 3208365																		
3208370	Drill Core	3.25	0.26	0.34	2.29	0.03	0.55	0.21	0.02	1.01	<0.01	<0.01	<0.01	5.27	99.29	0.05	2.34	2.38



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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 3208370	QC					17.2	61.6	87.7	90	1.0	68.7	8.4	90	2.03	34	1.4	6.2	20	1.0	6.1	<0.5
3208372	Drill Core	8.05	3	<3	4	3.1	26.8	51.6	2416	<0.5	46.9	6.0	680	3.21	33	1.7	1.3	100	2.3	1.5	<0.5
REP 3208372	QC																				
3208376	Drill Core	7.23	10	<3	8	17.4	64.9	211.6	1991	1.4	66.3	6.2	55	2.56	48	2.5	4.0	48	20.4	11.5	<0.5
REP 3208376	QC		9	8	7																
Core Reject Duplicates																					
3208325	Drill Core	7.70	10	<3	6	24.2	49.9	130.5	51	1.3	44.7	6.9	56	2.36	24	1.1	4.9	21	1.7	5.7	<0.5
DUP 3208325	QC		12	3	5	24.7	50.0	135.1	51	1.4	42.7	7.1	60	2.47	24	1.1	5.0	22	1.6	6.2	<0.5
3208359	Drill Core	7.32	7	<3	3	4.9	110.3	55.4	116	0.6	49.9	7.0	52	1.63	16	1.5	4.1	34	<0.5	2.5	<0.5
DUP 3208359	QC		5	<3	4	4.7	104.6	53.4	130	0.6	46.4	6.4	46	1.61	16	1.4	3.8	31	<0.5	2.5	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard					935.9	3991.3	11777.7	5309	50.3	4467.6	1957.7	5227	3.83	6	0.7	0.8	13	9.9	7.0	13.2
STD GBM398-4-AR	Standard					949.6	3905.1	11252.9	5315	50.8	4158.0	2001.9	5050	4.15	7	0.7	0.8	15	9.7	7.5	13.9
STD GBM398-4-AR	Standard					946.5	3727.8	11703.0	4897	48.9	3993.6	1925.5	5069	3.67	8	0.7	0.9	14	9.0	7.3	13.8
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	316.8	17797.6	28248	55.7	37.6	29.3	4107	9.41	1000	9.5	11.1	29	69.1	41.6	5.8
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				



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Project: MacMillan Pass  
Report Date: November 18, 2018

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## QUALITY CONTROL REPORT

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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
REP 3208370	QC	51	0.19	0.091	21.5	11.1	0.01	850	0.002	0.48	<0.01	0.17	<0.5	0.16	1.7	0.9	2.16	<5	4		
3208372	Drill Core	41	1.20	0.069	4.7	11.3	0.48	309	<0.001	0.27	<0.01	0.05	<0.5	<0.05	2.9	<0.5	1.57	<5	<2	81.30	3.10
REP 3208372	QC																			81.60	3.11
3208376	Drill Core	70	0.17	0.131	14.8	17.5	0.01	1170	0.003	0.52	<0.01	0.15	<0.5	0.56	2.0	3.1	2.95	<5	5	75.80	9.06
REP 3208376	QC																				
Core Reject Duplicates																					
3208325	Drill Core	26	<0.01	0.020	19.3	12.4	0.01	671	0.002	0.45	<0.01	0.20	<0.5	0.22	2.4	1.0	2.33	<5	6	77.70	8.51
DUP 3208325	QC	25	<0.01	0.021	19.7	11.1	<0.01	633	0.002	0.42	<0.01	0.19	<0.5	0.14	2.4	1.0	2.40	<5	6	77.70	8.59
3208359	Drill Core	21	0.11	0.069	14.6	10.1	<0.01	568	0.002	0.35	<0.01	0.13	<0.5	0.08	2.2	0.6	1.51	<5	<2	84.00	6.95
DUP 3208359	QC	20	0.10	0.070	13.8	9.8	0.01	552	0.002	0.35	<0.01	0.13	<0.5	0.06	1.7	0.5	1.50	<5	3	84.10	6.86
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard	24	0.32	0.020	2.8	1949.6	0.12	21	0.108	0.45	0.24	0.10	3.0	3.32	1.9	<0.5	0.93	<5	<2		
STD GBM398-4-AR	Standard	24	0.32	0.020	2.6	2052.0	0.13	21	0.115	0.49	0.27	0.11	2.8	3.24	2.2	<0.5	0.98	<5	4		
STD GBM398-4-AR	Standard	38	0.32	0.019	2.4	1940.3	0.12	19	0.108	0.49	0.25	0.10	3.0	3.02	1.5	<0.5	0.93	<5	<2		
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	33	1.90	0.094	42.4	24.5	0.85	471	0.029	1.12	0.02	0.54	3.1	1.29	5.0	6.5	7.28	5	5		
STD OREAS133B(D)	Standard																			33.60	6.81
STD OREAS133B(D)	Standard																			33.60	6.82



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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 3208370	QC																	
3208372	Drill Core	4.82	1.73	0.90	0.62	0.10	0.15	0.14	<0.01	0.33	<0.01	<0.01	0.25	5.54	99.10	3.17	2.37	1.73
REP 3208372	QC	4.88	1.74	0.89	0.62	0.11	0.15	0.14	<0.01	0.33	<0.01	<0.01	0.24	5.54	99.50			
3208376	Drill Core	3.91	0.27	0.30	1.68	0.03	0.45	0.32	0.02	1.32	<0.01	0.01	0.20	5.90	99.54	<0.02	2.42	3.20
REP 3208376	QC																	
Core Reject Duplicates																		
3208325	Drill Core	3.40	0.02	0.25	1.87	0.02	0.42	0.04	0.01	0.67	<0.01	0.02	<0.01	6.15	99.29	0.04	3.40	2.31
DUP 3208325	QC	3.58	<0.01	0.27	1.89	0.03	0.44	0.05	0.01	0.68	0.02	0.01	<0.01	6.29	99.76	0.03	3.49	2.45
3208359	Drill Core	2.36	0.14	0.23	1.49	0.03	0.38	0.16	<0.01	0.66	<0.01	<0.01	<0.01	2.85	99.42	0.04	1.00	1.50
DUP 3208359	QC	2.39	0.16	0.22	1.49	0.03	0.38	0.16	0.01	0.66	<0.01	<0.01	0.01	2.89	99.54	0.04	0.98	1.51
Reference Materials																		
STD COO1	Standard															2.31		
STD COO1	Standard															2.26		
STD COO1	Standard															2.20		
STD COO1	Standard															2.40		
STD COO1	Standard															2.32		
STD COO1	Standard															2.45		
STD GBM398-4-AR	Standard																	
STD GBM398-4-AR	Standard																	
STD GBM398-4-AR	Standard																	
STD GS311-1	Standard																1.00	2.35
STD GS311-1	Standard																1.05	2.21
STD GS311-1	Standard																1.01	2.39
STD GS910-4	Standard																2.67	8.55
STD GS910-4	Standard																2.76	8.31
STD GS910-4	Standard																2.72	8.45
STD OREAS135	Standard																	
STD OREAS133B(D)	Standard	11.50	5.30	3.71	3.44	0.15	0.22	0.09	<0.01	0.07	0.03	5.02	11.33	13.00	97.38			
STD OREAS133B(D)	Standard	11.50	5.30	3.70	3.44	0.16	0.23	0.10	<0.01	0.07	0.03	5.05	11.33	13.00	97.51			





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**Fireweed Zinc Ltd.**

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

**Project:**

MacMillan Pass

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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 OREAS133B(D)	Standard																				
STD OREAS605	Standard	4.9 50708.0 887.5 2230 >1000 1644.9 96.8 87 3.60 1723 1.0 2.5 45 14.3 306.1 19.2																			
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard	1.1 10554.8 217.4 726 4.6 30.9 30.7 1125 8.47 14 1.7 12.6 14 0.8 1.2 70.2																			
STD OREAS927-AR	Standard	1.3 10434.9 227.6 728 3.9 31.9 30.3 1143 8.50 14 1.7 13.2 13 1.0 1.3 76.0																			
STD OREAS927-AR	Standard	1.1 11225.9 239.1 700 4.1 30.1 30.8 1099 8.00 14 1.9 12.7 13 1.0 1.5 75.9																			
STD PD05	Standard	483 428 579																			
STD PD05	Standard	527 445 621																			
STD PD05	Standard	511 433 611																			
STD PG04	Standard	980 919 1206																			
STD PG04	Standard	940 868 1154																			
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD COO1 Expected																					
STD OREAS605 Expected		4.75 49800 856 2170 984 1538 93 86 3.75 1613 0.95 12.9 228 16.7																			
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 PG04 Expected		1004 903 1196																			
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 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 PD05 Expected		519 430 596																			
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
BLK	Blank																				



Bureau Veritas Commodities Canada Ltd.

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## QUALITY CONTROL REPORT

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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
STD OREAS133B(D)	Standard																			33.70	6.85
STD OREAS605	Standard	12	0.19	0.009	6.9	25.2	0.03	161	0.009	0.69	0.03	0.12	7.2	1.76	1.3	17.2	7.94	7	81		
STD OREAS72B	Standard																			51.30	8.99
STD OREAS72B	Standard																			51.40	8.97
STD OREAS72B	Standard																			51.50	8.99
STD OREAS927-AR	Standard	34	0.27	0.053	28.2	43.5	1.95	52	0.093	3.26	<0.01	0.30	5.4	0.09	4.8	<0.5	1.81	10	19		
STD OREAS927-AR	Standard	34	0.32	0.051	26.1	42.3	1.96	46	0.085	3.26	<0.01	0.28	4.3	<0.05	4.8	<0.5	1.83	9	16		
STD OREAS927-AR	Standard	33	0.30	0.049	28.2	42.3	1.91	47	0.089	3.29	<0.01	0.26	4.8	0.11	3.5	<0.5	1.72	9	16		
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.50	20.60
STD SY-4(D)	Standard																			49.50	20.60
STD SY-4(D)	Standard																			49.50	20.70
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD COO1 Expected																					
STD OREAS605 Expected		8.33	0.182	0.0116	3.95	27.5	0.0289	184.8	0.01	0.73	0.0328	0.134	5.9		1.05	15.3	7.86		75		
STD OREAS135 Expected		33.4	1.83	0.086	39.8	22	0.833	366	0.026	1.09		0.487	2.93	1.21	3.51	6.61	7.08	5.25			
STD PG04 Expected																					
STD GBM398-4-AR Expected		24	0.34	0.02	2.8	1950	0.12	21	0.111	0.48	0.25	0.11	3	3.21	1.79		0.94		3		
STD OREAS927-AR Expected		34	0.3	0.054	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 PD05 Expected																					
STD SY-4(D) Expected																				49.9	20.69
STD OREAS72B Expected																				51.16	8.97
STD OREAS133B(D) Expected																				33.83	6.91
BLK	Blank																				



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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
STD OREAS133B(D)	Standard	11.50	5.32	3.72	3.45	0.16	0.23	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.70			
STD OREAS605	Standard																	
STD OREAS72B	Standard	9.87	3.98	15.90	1.32	0.14	0.34	0.05	0.15	0.03	0.02	<0.01	0.01	5.12	98.55			
STD OREAS72B	Standard	9.89	3.98	15.90	1.31	0.15	0.37	0.06	0.14	0.04	0.02	<0.01	<0.01	5.12	98.64			
STD OREAS72B	Standard	9.85	3.97	15.80	1.32	0.15	0.35	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.61			
STD OREAS927-AR	Standard																	
STD OREAS927-AR	Standard																	
STD OREAS927-AR	Standard																	
STD PD05	Standard																	
STD PD05	Standard																	
STD PD05	Standard																	
STD PG04	Standard																	
STD PG04	Standard																	
STD SY-4(D)	Standard	6.21	8.01	0.51	1.66	0.11	0.28	0.16	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.65			
STD SY-4(D)	Standard	6.17	7.99	0.53	1.66	0.11	0.30	0.17	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.59			
STD SY-4(D)	Standard	6.16	8.00	0.53	1.66	0.11	0.29	0.17	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.68			
STD GS311-1 Expected																	1.02	2.35
STD GS910-4 Expected																	2.65	8.27
STD COO1 Expected																2.37		
STD OREAS605 Expected																		
STD OREAS135 Expected																		
STD PG04 Expected																		
STD GBM398-4-AR Expected																		
STD OREAS927-AR Expected																		
STD PD05 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					
BLK	Blank																<0.02	<0.02



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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
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank					<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
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		2	<3	2																
BLK	Blank		2	<3	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank					<0.5	<0.5	1.3	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
BLK	Blank		2	<3	<2																
BLK	Blank		3	<3	<2																
SI BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<3	<2	1.1	6.7	1.5	29	<0.5	1.7	4.8	618	2.03	<5	0.5	2.6	30	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		<2	<3	<2	1.3	3.8	1.8	32	<0.5	1.8	4.1	616	1.97	<5	0.5	2.8	29	<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
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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		
BLK	Blank	<10	<0.01	0.004	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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		
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																			98.60	0.34
SI BLK	Blank																			99.10	0.34
SI BLK	Blank																			99.20	0.34
Prep Wash																					
ROCK-WHI	Prep Blank	29	0.75	0.040	7.6	2.5	0.51	90	0.107	1.20	0.19	0.16	<0.5	<0.05	4.7	<0.5	<0.05	<5	<2	70.90	13.90
ROCK-WHI	Prep Blank	25	0.76	0.045	7.5	2.3	0.50	83	0.109	1.20	0.21	0.17	<0.5	<0.05	5.8	<0.5	<0.05	<5	<2	70.70	14.00



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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
BLK	Blank																<0.02	<0.02
BLK	Blank																<0.02	<0.02
BLK	Blank																0.03	
BLK	Blank																<0.02	
BLK	Blank																<0.02	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
SI BLK	Blank	0.03	0.03	0.02	0.02	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.11			
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	0.02	0.00	99.56			
SI BLK	Blank	0.03	0.02	0.03	0.01	0.02	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	99.71			
Prep Wash																		
ROCK-WHI	Prep Blank	3.26	2.23	0.99	1.89	0.10	0.35	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.12	99.52	0.27	0.12	0.04
ROCK-WHI	Prep Blank	3.17	2.24	0.88	2.00	0.10	0.34	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.10	99.37	0.29	0.11	0.05