



BUREAU MINERAL LABORATORIES
VERITAS 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: August 23, 2018
Report Date: October 07, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI18000730.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-021
P.O. Number
Number of Samples: 64

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.

Invoice To: Fireweed Zinc Ltd.
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	63	Crush, split and pulverize 500g rock to 200 mesh			WHI
CRUBW	63	Extra clean rock wash between samples in crusher			WHI
PULSW	63	Extra Wash with Silica between each sample			WHI
SLBHP	1	Sort, label and box pulps			WHI
FA330	64	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	64	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	64	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	64	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	64	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	64	Analysis by Leco	0.1	Completed	VAN
SHP01	64	Per sample shipping charges for branch shipments			VAN
LF726	1	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN

ADDITIONAL COMMENTS



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
3208001	Drill Core	3.69	9	<3	7	13.8	46.0	64.7	63	0.7	54.3	5.9	145	2.50	31	1.9	3.6	65	<0.5	14.2	<0.5
3208002	Drill Core	4.00	10	<3	6	17.5	49.1	81.8	178	0.7	67.6	5.8	41	1.96	37	3.1	3.8	39	0.6	14.1	<0.5
3208003	Drill Core	3.89	9	<3	9	16.1	33.7	52.6	233	0.8	56.5	5.8	177	2.12	37	2.9	3.9	34	0.5	12.5	<0.5
3208004	Drill Core	4.57	9	<3	7	17.5	56.2	76.2	580	1.1	70.6	9.4	444	3.53	38	2.7	3.9	46	1.2	12.2	<0.5
3208005	Drill Core	5.65	7	<3	4	21.5	42.7	62.8	52	1.2	65.2	7.6	203	2.11	42	2.7	4.7	50	<0.5	15.4	<0.5
3208006	Drill Core	6.14	9	<3	7	17.7	59.2	129.4	85	2.8	71.8	10.2	231	3.99	53	2.8	5.2	57	<0.5	19.8	<0.5
3208007	Drill Core	5.03	7	<3	4	22.2	56.7	92.9	155	1.4	77.2	10.7	459	3.01	46	3.0	4.8	53	<0.5	16.8	<0.5
3208008	Drill Core	3.59	9	<3	6	22.4	56.3	130.3	168	1.5	89.5	13.4	516	3.66	57	2.4	4.9	39	<0.5	20.4	<0.5
3208009	Drill Core	4.83	9	<3	8	25.0	49.6	108.6	166	1.0	70.4	11.0	679	3.58	48	2.5	4.6	35	<0.5	14.4	<0.5
3208010	Drill Core	6.01	13	<3	10	22.3	42.7	125.7	113	1.8	98.3	12.7	625	3.66	67	2.3	4.5	126	<0.5	22.2	<0.5
3208011	Drill Core	5.40	10	<3	9	26.1	39.6	120.8	212	1.3	83.6	11.3	908	4.60	57	2.7	5.0	23	<0.5	15.0	<0.5
3208012	Drill Core	4.52	15	<3	4	22.1	117.6	181.9	294	3.1	83.0	12.5	863	5.20	67	4.8	4.8	20	<0.5	22.1	<0.5
3208013	Drill Core	4.47	50	<3	7	5.8	204.6	>40000>200000	319.2	22.4	45.0	162	2.47	160	0.9	1.4	11	1806.6	342.4	<0.5	
3208014	Drill Core	4.70	12	<3	9	4.9	64.5	89.1	178	1.5	65.0	11.7	581	3.56	54	1.2	5.5	41	<0.5	13.8	<0.5
3208015	Rock Pulp	0.04	16	<3	13	2.8	284.3	>40000	105850	98.2	22.5	21.8	1203	7.50	149	1.3	5.1	16	315.0	165.5	<0.5
3208016	Drill Core	5.38	15	<3	<2	5.1	72.2	114.6	113	1.8	73.0	12.7	564	3.24	74	1.3	5.9	28	<0.5	15.2	<0.5
3208017	Drill Core	4.10	12	<3	<2	4.7	104.2	134.4	167	1.6	66.0	16.4	655	4.42	101	1.5	5.7	31	<0.5	9.8	<0.5
3208018	Drill Core	5.07	15	<3	<2	6.1	2043.4	63.5	84	11.0	83.9	29.2	592	9.01	180	1.4	4.3	28	<0.5	12.5	<0.5
3208019	Drill Core	6.06	21	<3	3	7.0	123.3	56.9	30	1.7	64.2	24.3	172	2.44	76	2.1	7.1	20	<0.5	16.0	<0.5
3208020	Drill Core	5.03	9	<3	2	1.5	67.3	45.9	108	1.2	35.5	11.8	850	4.82	74	0.6	1.3	9	<0.5	12.3	<0.5
3208021	Drill Core	5.32	7	<3	<2	0.8	20.6	28.7	44	0.8	26.3	7.1	423	3.02	53	<0.5	0.8	12	<0.5	5.6	<0.5
3208022	Drill Core	5.54	9	4	<2	0.7	19.9	28.5	40	0.8	30.3	11.2	694	4.09	65	<0.5	0.7	32	<0.5	6.2	<0.5
3208023	Drill Core	3.76	21	<3	<2	3.9	55.6	105.2	51	1.3	60.3	28.0	403	4.81	149	1.5	5.1	27	<0.5	13.7	<0.5
3208024	Drill Core	5.17	25	<3	6	9.2	147.7	65.0	54	1.8	71.6	28.0	197	2.44	90	2.7	8.1	29	<0.5	13.5	<0.5
3208025	Drill Core	3.14	10	<3	<2	4.7	489.7	42.7	41	2.4	38.8	18.8	306	2.41	89	0.8	1.4	16	<0.5	4.0	<0.5
3208026	Drill Core	5.59	11	<3	3	4.3	672.3	45.0	145	2.5	35.9	18.3	6134	19.71	111	0.7	1.0	21	<0.5	4.3	<0.5
3208027	Drill Core	5.08	10	<3	<2	6.6	108.9	28.1	235	0.5	37.3	19.8	1818	6.37	55	1.0	2.0	22	1.0	1.4	<0.5
3208028	Drill Core	4.16	9	<3	<2	4.9	607.0	28.8	171	2.4	63.7	31.0	2745	9.22	92	0.8	1.2	27	<0.5	6.0	<0.5
3208029	Drill Core	4.61	9	<3	<2	4.9	589.1	66.5	478	3.0	38.9	23.2	2011	7.33	66	1.4	1.2	24	0.9	5.4	<0.5
3208030	Drill Core	4.50	17	<3	3	4.9	86.1	81.6	125	1.5	65.3	9.7	363	4.25	127	2.5	5.7	21	<0.5	27.1	<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	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
3208001	Drill Core	76	0.71	0.110	7.1	14.7	0.23	1449	0.004	0.50	<0.01	0.18	<0.5	0.18	1.5	0.8	2.54	<5	5	74.80	8.11
3208002	Drill Core	71	0.29	0.138	8.0	13.4	0.03	1266	0.003	0.48	<0.01	0.15	<0.5	0.25	1.3	0.7	2.16	<5	6	78.30	7.60
3208003	Drill Core	98	0.22	0.107	9.6	15.3	0.04	1636	0.004	0.56	<0.01	0.18	<0.5	0.23	1.6	0.7	1.63	<5	4	77.80	7.85
3208004	Drill Core	70	0.28	0.110	8.8	11.9	0.03	1083	0.004	0.46	<0.01	0.16	<0.5	0.33	1.6	0.6	1.85	<5	5	76.20	7.58
3208005	Drill Core	68	0.47	0.106	7.2	11.3	0.11	1107	0.005	0.55	<0.01	0.25	<0.5	0.19	2.1	0.7	1.78	<5	3	75.40	8.80
3208006	Drill Core	45	0.41	0.079	6.6	9.4	0.13	789	0.003	0.48	<0.01	0.22	<0.5	0.27	1.7	0.9	3.93	<5	4	71.80	8.63
3208007	Drill Core	54	0.37	0.083	9.4	11.7	0.11	854	0.003	0.48	<0.01	0.24	<0.5	0.25	2.1	0.7	1.67	<5	3	75.20	8.44
3208008	Drill Core	31	0.33	0.049	3.8	7.8	0.11	650	0.002	0.40	<0.01	0.20	<0.5	0.25	2.3	0.9	2.39	<5	4	73.40	8.27
3208009	Drill Core	37	0.27	0.042	8.0	7.9	0.10	768	0.002	0.49	<0.01	0.23	<0.5	0.19	2.8	0.7	1.42	<5	3	73.70	8.10
3208010	Drill Core	33	1.16	0.045	5.5	8.7	0.47	561	0.002	0.36	<0.01	0.19	<0.5	0.26	3.0	1.1	2.19	<5	3	70.00	8.07
3208011	Drill Core	42	0.23	0.052	9.3	9.0	0.05	803	0.002	0.49	<0.01	0.23	<0.5	0.13	2.5	0.7	1.73	<5	3	70.20	8.56
3208012	Drill Core	31	0.20	0.067	6.0	7.2	0.02	554	0.002	0.37	<0.01	0.17	<0.5	0.24	2.3	1.0	2.94	<5	3	69.90	8.36
3208013	Drill Core	13	0.11	0.026	1.6	3.2	0.03	210	<0.001	0.14	<0.01	0.06	<0.5	208.52	<0.5	1.9	22.81	8	9	11.10	1.71
3208014	Drill Core	28	0.37	0.042	11.0	7.7	0.11	905	0.003	0.50	<0.01	0.23	<0.5	0.41	2.2	0.5	1.69	<5	3	72.80	10.30
3208015	Rock Pulp	<10	3.65	0.037	16.0	9.3	2.03	85	0.009	0.70	<0.01	0.44	<0.5	4.72	1.7	44.3	10.95	<5	<2	34.30	6.98
3208016	Drill Core	36	0.23	0.058	13.2	10.2	0.05	1248	0.003	0.62	<0.01	0.31	<0.5	0.25	2.3	0.6	1.80	<5	4	73.90	10.40
3208017	Drill Core	26	0.16	0.060	11.8	7.1	0.04	720	0.002	0.41	<0.01	0.20	<0.5	0.22	1.9	<0.5	2.14	<5	4	73.90	8.91
3208018	Drill Core	31	0.22	0.058	7.3	6.4	0.10	536	0.002	0.36	<0.01	0.17	<0.5	0.31	3.0	<0.5	7.54	<5	10	65.90	7.14
3208019	Drill Core	45	0.18	0.084	13.6	11.2	0.04	958	0.003	0.65	<0.01	0.35	<0.5	0.21	2.1	0.7	1.94	<5	2	69.60	13.40
3208020	Drill Core	18	0.10	0.040	6.3	6.3	0.02	345	0.001	0.21	<0.01	0.10	<0.5	0.10	1.4	<0.5	2.78	<5	<2	83.70	2.97
3208021	Drill Core	12	0.15	0.031	3.8	4.6	0.02	259	0.001	0.14	<0.01	0.07	<0.5	0.10	0.9	<0.5	2.01	<5	<2	88.90	2.13
3208022	Drill Core	<10	0.33	0.028	2.8	3.9	0.09	233	0.001	0.12	<0.01	0.06	<0.5	0.07	0.9	<0.5	2.18	<5	<2	85.90	2.02
3208023	Drill Core	32	0.44	0.083	12.2	7.5	0.10	771	0.003	0.44	<0.01	0.23	<0.5	0.26	1.6	<0.5	3.72	<5	3	73.20	8.44
3208024	Drill Core	48	0.26	0.127	11.1	10.1	0.04	869	0.003	0.58	<0.01	0.28	0.5	0.20	1.3	0.6	1.67	<5	3	67.10	14.50
3208025	Drill Core	33	0.12	0.051	7.0	7.0	0.06	317	0.001	0.19	<0.01	0.09	<0.5	0.08	<0.5	<0.5	1.08	<5	<2	87.90	2.90
3208026	Drill Core	65	0.26	0.046	3.2	7.1	0.78	215	0.001	0.13	<0.01	0.06	<0.5	0.16	4.2	<0.5	2.31	<5	3	48.50	2.06
3208027	Drill Core	53	0.18	0.065	10.2	10.6	0.32	446	0.002	0.24	<0.01	0.12	<0.5	0.12	0.6	<0.5	0.91	<5	<2	77.70	3.27
3208028	Drill Core	46	0.23	0.071	5.8	6.9	0.44	297	0.001	0.16	<0.01	0.08	<0.5	0.12	1.7	<0.5	1.68	<5	3	72.50	2.51
3208029	Drill Core	35	0.18	0.059	5.7	6.8	0.09	338	0.002	0.20	<0.01	0.09	<0.5	0.10	2.3	<0.5	1.95	<5	4	77.70	2.54
3208030	Drill Core	30	0.14	0.070	7.8	7.8	0.03	824	0.002	0.42	<0.01	0.14	<0.5	0.23	1.5	0.6	3.29	<5	5	73.50	9.40



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
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	0.1
3208001 Drill Core	4.07	1.03	0.75	1.82	0.04	0.41	0.28	0.03	1.13	<0.01	<0.01	<0.01	6.70	99.40	0.72	3.13	2.69	
3208002 Drill Core	3.23	0.44	0.37	1.60	0.03	0.39	0.32	0.01	0.98	<0.01	<0.01	0.02	5.15	98.62	0.06	2.93	2.26	
3208003 Drill Core	3.46	0.41	0.39	1.56	0.05	0.41	0.27	0.02	1.01	<0.01	<0.01	0.02	5.99	99.43	0.47	3.14	1.68	
3208004 Drill Core	5.33	0.41	0.35	1.65	0.08	0.41	0.28	0.01	0.86	<0.01	<0.01	0.06	6.14	99.57	1.11	3.05	1.94	
3208005 Drill Core	3.50	0.61	0.55	2.20	0.05	0.45	0.27	0.02	0.72	<0.01	<0.01	<0.01	6.58	99.32	0.68	3.55	1.83	
3208006 Drill Core	6.17	0.60	0.59	2.18	0.05	0.46	0.21	0.01	0.61	<0.01	<0.01	<0.01	7.79	99.26	0.76	3.38	4.13	
3208007 Drill Core	4.76	0.52	0.51	2.12	0.08	0.43	0.19	0.01	0.55	<0.01	<0.01	0.01	6.91	99.89	1.27	3.66	1.79	
3208008 Drill Core	5.64	0.49	0.48	2.08	0.09	0.42	0.11	0.02	0.53	<0.01	<0.01	0.01	7.75	99.42	1.39	3.95	2.46	
3208009 Drill Core	5.52	0.42	0.46	2.01	0.11	0.39	0.10	<0.01	0.53	<0.01	<0.01	0.01	7.86	99.34	1.86	4.24	1.45	
3208010 Drill Core	5.69	1.70	1.07	2.05	0.10	0.41	0.11	<0.01	0.55	<0.01	0.01	<0.01	8.98	98.89	3.00	4.74	2.25	
3208011 Drill Core	6.98	0.29	0.40	2.16	0.14	0.42	0.12	<0.01	0.57	<0.01	<0.01	0.02	8.81	98.82	2.26	4.84	1.75	
3208012 Drill Core	7.93	0.30	0.37	2.10	0.14	0.42	0.18	<0.01	0.53	0.01	0.02	0.03	9.04	99.49	1.73	4.44	3.08	
3208013 Drill Core	3.83	0.18	0.09	0.45	0.04	0.11	0.06	<0.01	0.10	0.01	20.06	>24	11.01	98.86	0.39	0.85	23.18	39.0
3208014 Drill Core	5.71	0.54	0.53	2.53	0.10	0.57	0.13	0.01	0.80	<0.01	<0.01	0.02	5.39	99.61	1.57	1.65	1.76	
3208015 Rock Pulp	11.50	5.41	3.82	3.48	0.19	0.23	0.10	<0.01	0.07	0.03	4.90	10.84	12.78	97.67	3.78	2.46	11.00	
3208016 Drill Core	5.12	0.31	0.42	2.56	0.09	0.59	0.15	0.01	0.83	0.01	0.01	<0.01	4.88	99.47	1.12	1.40	1.81	
3208017 Drill Core	6.85	0.23	0.31	2.18	0.10	0.51	0.14	<0.01	0.67	<0.01	<0.01	0.01	5.10	99.10	1.63	1.45	2.19	
3208018 Drill Core	13.60	0.33	0.39	1.78	0.09	0.39	0.14	<0.01	0.50	0.18	<0.01	<0.01	8.65	99.32	1.91	1.78	7.57	
3208019 Drill Core	4.41	0.32	0.47	3.38	0.05	0.76	0.22	0.02	0.92	0.01	<0.01	<0.01	5.41	99.20	0.53	1.75	1.99	
3208020 Drill Core	7.09	0.18	0.14	0.74	0.12	0.17	0.09	<0.01	0.22	<0.01	<0.01	0.01	4.00	99.53	1.47	0.94	2.88	
3208021 Drill Core	4.89	0.20	0.12	0.51	0.08	0.11	0.08	<0.01	0.17	<0.01	<0.01	<0.01	2.56	99.82	0.80	0.52	1.99	
3208022 Drill Core	6.21	0.56	0.22	0.47	0.12	0.10	0.08	<0.01	0.15	<0.01	<0.01	<0.01	3.18	99.06	1.63	0.74	2.32	
3208023 Drill Core	7.49	0.66	0.43	2.12	0.07	0.47	0.22	<0.01	0.62	<0.01	<0.01	<0.01	5.59	99.49	1.20	1.29	3.84	
3208024 Drill Core	4.50	0.46	0.52	3.62	0.05	0.83	0.33	0.02	1.08	0.02	<0.01	<0.01	6.05	99.34	0.66	2.43	1.77	
3208025 Drill Core	3.92	0.20	0.21	0.71	0.06	0.13	0.14	<0.01	0.22	0.05	<0.01	<0.01	2.88	99.40	0.94	1.36	1.16	
3208026 Drill Core	29.70	0.44	1.36	0.49	0.78	0.10	0.12	<0.01	0.14	0.06	<0.01	0.02	16.09	99.93	12.71	5.44	2.45	
3208027 Drill Core	9.49	0.28	0.60	0.80	0.24	0.16	0.15	<0.01	0.26	0.01	<0.01	0.02	6.31	99.38	4.03	2.75	0.96	
3208028 Drill Core	13.40	0.33	0.76	0.62	0.34	0.12	0.16	<0.01	0.21	0.06	<0.01	0.02	8.18	99.28	5.60	3.02	1.80	
3208029 Drill Core	10.80	0.27	0.22	0.61	0.25	0.12	0.14	<0.01	0.21	0.05	<0.01	0.05	6.52	99.57	3.93	2.65	2.04	
3208030 Drill Core	6.48	0.24	0.37	2.32	0.05	0.54	0.16	0.01	0.73	<0.01	<0.01	0.04	5.42	99.44	0.65	1.21	3.45	



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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
3208031	Drill Core	4.67	20	<3	5	6.7	71.6	73.5	45	2.1	72.0	10.0	225	2.91	56	1.2	7.4	14	<0.5	19.4	<0.5
3208032	Drill Core	0.95	12	<3	4	4.1	91.1	54.2	116	1.5	56.9	7.5	337	3.56	42	1.1	5.9	17	<0.5	12.7	<0.5
3208033	Drill Core	7.26	13	<3	6	4.6	82.0	70.1	62	1.4	66.0	9.9	296	3.09	40	1.1	7.1	19	<0.5	14.8	<0.5
3208034	Drill Core	3.98	15	<3	5	4.5	82.8	72.3	270	1.3	89.3	11.8	1174	6.23	71	1.1	6.4	28	<0.5	12.5	<0.5
3208035	Drill Core	4.03	17	<3	5	5.1	67.2	91.6	61	1.4	79.7	12.0	905	4.31	56	1.5	8.4	21	<0.5	13.6	<0.5
3208036	Drill Core	5.44	17	<3	3	5.1	76.4	138.9	176	1.8	94.9	13.7	820	5.81	79	1.4	8.1	26	0.6	15.1	<0.5
3208037	Drill Core	4.13	12	<3	7	4.0	52.6	97.8	54	1.2	65.7	10.5	442	4.47	52	1.0	5.9	34	<0.5	11.0	<0.5
3208038	Drill Core	5.43	14	<3	3	2.1	57.6	76.3	62	1.7	50.1	14.1	609	5.59	115	0.8	3.2	108	<0.5	11.4	<0.5
3208039	Rock	1.07	<2	<3	<2	0.7	5.8	1.6	34	<0.5	1.8	4.8	662	2.15	<5	<0.5	1.9	30	<0.5	<0.5	<0.5
3208040	Drill Core	6.02	7	<3	<2	0.9	40.2	45.5	5	1.3	24.1	9.8	935	6.02	59	<0.5	0.7	206	<0.5	7.4	<0.5
3208041	Drill Core	5.37	5	<3	<2	1.0	21.9	26.9	<5	0.8	21.2	7.6	637	4.10	28	<0.5	0.9	108	<0.5	5.2	<0.5
3208042	Drill Core	5.78	5	<3	<2	1.8	21.8	23.3	<5	0.7	22.8	7.3	403	3.01	24	0.7	2.7	63	<0.5	5.4	<0.5
3208043	Drill Core	6.82	24	<3	3	1.1	83.3	123.3	6	3.7	28.9	10.9	772	13.80	66	<0.5	1.2	202	<0.5	15.8	<0.5
3208044	Drill Core	5.45	4	<3	<2	<0.5	11.2	17.1	<5	<0.5	11.5	3.9	506	3.01	13	<0.5	0.5	95	<0.5	2.4	<0.5
3208045	Drill Core	5.32	7	<3	<2	0.7	35.6	55.4	5	1.4	20.5	6.2	831	6.25	34	<0.5	1.0	189	<0.5	6.4	<0.5
3208046	Drill Core	5.17	9	<3	<2	0.8	24.2	40.9	<5	1.0	16.3	5.0	641	4.79	26	<0.5	1.2	107	<0.5	5.3	<0.5
3208047	Drill Core	6.24	12	<3	<2	1.1	36.7	92.4	5	2.9	34.2	11.5	647	9.12	53	<0.5	1.1	142	<0.5	14.8	<0.5
3208048	Drill Core	5.39	2	<3	<2	<0.5	7.3	12.4	13	<0.5	13.9	4.9	819	3.40	15	<0.5	0.6	122	<0.5	2.4	<0.5
3208049	Drill Core	6.37	13	<3	<2	<0.5	16.4	46.5	49	1.3	22.9	9.3	582	5.85	36	<0.5	0.7	90	<0.5	7.3	<0.5
3208050	Drill Core	3.39	3	<3	<2	0.6	6.8	8.8	<5	<0.5	13.2	3.8	187	1.38	11	<0.5	1.2	34	<0.5	2.0	<0.5
3208051	Drill Core	5.71	6	<3	<2	<0.5	14.6	41.5	11	0.8	15.9	5.2	968	6.97	23	<0.5	<0.5	194	<0.5	3.7	<0.5
3208052	Drill Core	5.68	21	<3	4	2.3	26.8	75.3	6	2.1	50.0	15.9	377	7.53	71	0.6	1.8	72	<0.5	11.7	<0.5
3208053	Drill Core	5.21	12	<3	<2	1.6	8.6	16.6	17	0.9	30.6	7.4	343	3.11	34	<0.5	0.7	37	<0.5	6.8	<0.5
3208054	Drill Core	5.58	46	<3	<2	1.3	49.7	134.8	57	3.4	54.3	17.7	618	11.08	107	<0.5	0.6	42	<0.5	13.5	<0.5
3208055	Drill Core	5.48	24	<3	<2	1.2	24.2	65.3	11	1.7	25.1	8.4	228	5.56	53	<0.5	0.7	18	<0.5	7.1	<0.5
3208056	Drill Core	6.12	72	<3	5	1.3	80.2	248.1	36	6.1	79.3	21.5	1263	17.55	190	<0.5	0.9	217	<0.5	22.2	<0.5
3208057	Drill Core	5.15	46	<3	<2	0.8	43.1	118.0	60	2.7	46.8	10.8	1110	10.21	121	<0.5	0.6	316	<0.5	9.3	<0.5
3208058	Drill Core	5.79	45	<3	4	0.8	28.2	75.2	8	2.8	35.7	9.7	338	8.24	77	<0.5	0.7	57	<0.5	10.0	<0.5
3208059	Drill Core	5.80	32	<3	4	0.6	18.8	59.9	9	2.4	31.8	8.0	416	7.88	61	<0.5	0.7	61	<0.5	7.0	<0.5
3208060	Drill Core	5.36	9	<3	<2	0.6	7.5	10.7	11	0.5	20.8	5.0	365	2.14	30	<0.5	0.7	42	<0.5	2.9	<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
3208031	Drill Core	26	0.10	0.058	9.3	7.8	0.02	738	0.003	0.46	<0.01	0.23	<0.5	0.22	2.3	0.5	2.71	<5	4	71.60	12.20
3208032	Drill Core	32	0.14	0.063	10.9	9.4	0.02	866	0.003	0.51	<0.01	0.25	<0.5	0.14	1.8	<0.5	3.03	<5	4	73.50	10.00
3208033	Drill Core	29	0.13	0.056	11.0	7.9	0.02	786	0.003	0.47	<0.01	0.25	<0.5	0.11	1.1	0.5	2.55	<5	6	71.80	11.70
3208034	Drill Core	29	0.16	0.059	8.2	7.4	0.02	615	0.002	0.36	<0.01	0.18	<0.5	0.12	3.8	<0.5	3.42	<5	5	66.40	10.90
3208035	Drill Core	28	0.16	0.057	13.0	9.4	0.03	809	0.002	0.46	<0.01	0.25	<0.5	0.09	2.4	<0.5	2.49	<5	5	68.20	12.50
3208036	Drill Core	30	0.24	0.082	10.0	8.2	0.04	764	0.002	0.48	<0.01	0.23	<0.5	0.14	2.4	<0.5	4.13	<5	7	64.10	12.90
3208037	Drill Core	35	0.41	0.074	7.6	8.7	0.10	802	0.003	0.53	<0.01	0.27	<0.5	0.21	3.0	<0.5	3.50	<5	6	70.90	10.30
3208038	Drill Core	22	1.49	0.110	5.0	6.3	0.40	462	0.003	0.30	<0.01	0.15	<0.5	0.11	2.1	<0.5	4.79	<5	2	73.40	5.15
3208039	Rock	35	0.87	0.040	6.2	1.7	0.60	67	0.114	1.14	0.09	0.12	<0.5	<0.05	3.3	<0.5	0.07	<5	<2	69.20	14.00
3208040	Drill Core	19	3.05	0.023	2.7	4.7	0.94	210	0.001	0.13	<0.01	0.06	<0.5	0.12	1.7	0.6	4.63	<5	<2	72.20	2.17
3208041	Drill Core	17	2.23	0.106	3.6	4.5	0.61	292	0.002	0.18	<0.01	0.08	<0.5	0.06	1.5	<0.5	2.87	<5	<2	79.50	2.19
3208042	Drill Core	17	1.29	0.029	5.4	5.9	0.42	412	0.002	0.27	<0.01	0.13	<0.5	<0.05	2.2	<0.5	2.18	<5	<2	80.00	4.98
3208043	Drill Core	21	2.42	0.026	2.4	3.8	0.76	278	0.001	0.18	<0.01	0.07	<0.5	0.21	2.2	1.9	14.23	<5	<2	55.10	2.53
3208044	Drill Core	12	1.62	0.006	3.3	3.0	0.49	169	<0.001	0.11	<0.01	0.05	<0.5	0.10	1.7	<0.5	1.94	<5	<2	84.20	1.74
3208045	Drill Core	22	2.76	0.010	3.9	5.4	0.88	279	0.001	0.15	<0.01	0.07	<0.5	0.10	2.4	0.6	4.97	<5	<2	72.20	2.30
3208046	Drill Core	17	2.14	0.016	4.1	5.3	0.65	271	0.001	0.16	<0.01	0.08	<0.5	0.07	2.1	0.6	3.57	<5	<2	76.90	2.88
3208047	Drill Core	16	2.08	0.035	3.2	7.1	0.64	342	0.003	0.20	<0.01	0.08	<0.5	0.43	1.1	2.0	8.83	<5	<2	68.20	2.36
3208048	Drill Core	13	2.68	0.021	3.4	7.9	0.79	227	<0.001	0.13	<0.01	0.06	<0.5	<0.05	1.7	<0.5	1.46	<5	<2	79.70	2.00
3208049	Drill Core	11	1.65	0.038	2.3	8.3	0.49	284	0.002	0.18	<0.01	0.08	<0.5	0.13	2.1	1.0	4.73	<5	<2	77.80	1.89
3208050	Drill Core	<10	0.62	0.027	4.6	7.5	0.18	312	0.002	0.18	<0.01	0.08	<0.5	<0.05	0.7	<0.5	0.80	<5	<2	90.10	2.62
3208051	Drill Core	25	3.85	0.008	1.6	6.8	1.20	213	0.001	0.13	<0.01	0.05	<0.5	0.10	3.0	<0.5	5.00	<5	<2	68.20	1.50
3208052	Drill Core	19	1.29	0.042	3.7	5.0	0.41	368	0.001	0.21	<0.01	0.09	<0.5	0.13	1.6	0.8	7.54	<5	<2	73.10	3.42
3208053	Drill Core	14	0.98	0.025	3.4	5.3	0.29	217	0.001	0.13	<0.01	0.07	<0.5	0.07	1.4	<0.5	2.12	<5	<2	86.30	2.10
3208054	Drill Core	<10	1.00	0.025	2.2	4.4	0.31	185	0.001	0.10	<0.01	0.05	<0.5	0.10	1.4	1.5	10.38	<5	3	70.50	1.68
3208055	Drill Core	<10	0.43	0.025	2.9	5.7	0.12	207	0.001	0.12	<0.01	0.05	<0.5	0.10	<0.5	0.8	5.20	<5	<2	83.50	1.77
3208056	Drill Core	15	2.77	0.057	1.5	4.4	0.83	199	0.001	0.11	<0.01	0.05	<0.5	0.24	2.2	2.2	17.00	<5	3	48.70	1.73
3208057	Drill Core	11	2.75	0.015	1.9	4.2	0.85	196	<0.001	0.10	<0.01	0.06	<0.5	0.05	2.7	1.0	8.33	<5	<2	66.40	1.58
3208058	Drill Core	<10	0.76	0.023	2.6	5.0	0.26	233	0.001	0.13	<0.01	0.07	<0.5	0.16	1.2	0.7	8.13	<5	<2	77.20	2.02
3208059	Drill Core	<10	1.07	0.022	2.9	4.4	0.32	244	0.001	0.13	<0.01	0.07	<0.5	0.17	1.5	<0.5	7.45	<5	<2	76.40	2.00
3208060	Drill Core	<10	0.71	0.055	3.2	4.1	0.20	230	0.001	0.14	<0.01	0.07	<0.5	<0.05	1.8	<0.5	1.22	<5	<2	89.60	2.09



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
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	0.1
3208031	Drill Core	4.53	0.19	0.46	3.11	0.04	0.69	0.14	0.02	0.92	<0.01	<0.01	<0.01	5.67	99.78	0.34	1.34	2.72
3208032	Drill Core	5.55	0.24	0.39	2.54	0.05	0.56	0.17	<0.01	0.76	<0.01	<0.01	0.01	5.09	99.04	0.60	1.26	3.16
3208033	Drill Core	4.83	0.22	0.44	2.99	0.05	0.67	0.16	0.02	0.91	<0.01	<0.01	<0.01	5.06	99.06	0.55	1.33	2.69
3208034	Drill Core	9.29	0.24	0.39	2.75	0.15	0.61	0.15	0.01	0.82	<0.01	<0.01	0.03	6.98	98.90	2.33	1.76	3.48
3208035	Drill Core	6.58	0.22	0.47	3.17	0.12	0.74	0.13	0.01	0.92	<0.01	<0.01	<0.01	5.93	99.17	1.67	1.76	2.50
3208036	Drill Core	8.74	0.35	0.50	3.29	0.11	0.74	0.19	0.02	0.94	<0.01	0.01	0.02	7.39	99.51	1.40	1.77	4.31
3208037	Drill Core	6.53	0.58	0.52	2.64	0.07	0.58	0.17	<0.01	0.73	<0.01	<0.01	<0.01	5.81	99.02	1.03	1.40	3.50
3208038	Drill Core	8.17	2.09	0.82	1.30	0.08	0.29	0.27	<0.01	0.37	<0.01	<0.01	<0.01	5.96	98.02	2.72	1.43	4.86
3208039	Rock	3.76	2.68	1.20	1.88	0.11	0.38	0.10	<0.01	0.09	<0.01	<0.01	<0.01	1.32	99.08	0.41	0.14	0.09
3208040	Drill Core	8.87	4.28	1.68	0.53	0.12	0.11	0.06	<0.01	0.15	<0.01	<0.01	<0.01	6.80	97.05	4.75	2.13	4.69
3208041	Drill Core	6.09	3.06	1.11	0.56	0.09	0.11	0.24	<0.01	0.16	<0.01	<0.01	<0.01	4.87	98.03	3.36	1.50	3.03
3208042	Drill Core	4.58	1.87	0.84	1.27	0.06	0.28	0.08	<0.01	0.35	<0.01	<0.01	<0.01	4.21	98.62	2.39	1.32	2.22
3208043	Drill Core	20.80	3.53	1.39	0.65	0.10	0.14	0.07	<0.01	0.18	<0.01	<0.01	<0.01	12.54	97.11	4.36	1.90	14.77
3208044	Drill Core	4.46	2.32	0.92	0.44	0.07	0.09	0.02	<0.01	0.12	<0.01	<0.01	<0.01	3.57	97.99	3.18	1.19	2.10
3208045	Drill Core	9.12	3.93	1.53	0.59	0.11	0.13	0.04	<0.01	0.18	<0.01	<0.01	<0.01	6.71	96.90	5.56	1.95	4.97
3208046	Drill Core	6.99	3.02	1.18	0.73	0.09	0.15	0.04	<0.01	0.23	<0.01	<0.01	<0.01	5.42	97.70	3.91	1.65	3.72
3208047	Drill Core	13.40	2.96	1.15	0.59	0.09	0.13	0.09	<0.01	0.18	<0.01	<0.01	<0.01	8.12	97.35	2.40	1.58	8.89
3208048	Drill Core	5.02	3.85	1.41	0.50	0.11	0.10	0.05	<0.01	0.17	<0.01	<0.01	<0.01	5.42	98.40	4.06	1.83	1.55
3208049	Drill Core	8.61	2.32	0.90	0.48	0.08	0.10	0.08	<0.01	0.15	<0.01	<0.01	<0.01	5.48	97.94	2.84	1.28	4.85
3208050	Drill Core	2.13	0.87	0.39	0.66	0.04	0.14	0.06	<0.01	0.22	<0.01	<0.01	<0.01	1.77	99.04	0.92	0.56	0.77
3208051	Drill Core	10.10	5.51	2.06	0.38	0.14	0.08	0.03	<0.01	0.12	<0.01	<0.01	<0.01	7.62	95.78	7.34	2.52	5.09
3208052	Drill Core	10.90	1.81	0.75	0.86	0.06	0.20	0.09	<0.01	0.28	<0.01	<0.01	<0.01	6.57	98.15	2.13	1.36	7.47
3208053	Drill Core	4.33	1.33	0.54	0.53	0.05	0.10	0.06	<0.01	0.16	<0.01	<0.01	<0.01	2.86	98.43	1.26	0.84	2.27
3208054	Drill Core	15.00	1.30	0.53	0.43	0.08	0.09	0.06	<0.01	0.14	<0.01	<0.01	<0.01	8.28	98.17	2.02	1.03	10.37
3208055	Drill Core	7.75	0.57	0.26	0.46	0.04	0.08	0.06	<0.01	0.16	<0.01	<0.01	<0.01	4.31	99.03	0.63	0.54	5.41
3208056	Drill Core	25.40	3.78	1.45	0.44	0.16	0.09	0.12	<0.01	0.13	<0.01	0.02	<0.01	14.01	96.08	4.60	2.06	17.07
3208057	Drill Core	14.20	3.75	1.47	0.39	0.15	0.09	0.04	<0.01	0.12	<0.01	0.01	<0.01	7.79	96.05	5.42	1.94	8.57
3208058	Drill Core	11.10	1.01	0.44	0.52	0.05	0.11	0.05	<0.01	0.16	<0.01	<0.01	<0.01	5.85	98.60	1.23	0.58	8.12
3208059	Drill Core	10.70	1.44	0.57	0.52	0.06	0.10	0.06	<0.01	0.15	<0.01	<0.01	<0.01	5.95	98.00	1.98	0.75	7.60
3208060	Drill Core	3.02	0.99	0.37	0.54	0.06	0.11	0.12	<0.01	0.15	<0.01	<0.01	<0.01	1.75	98.85	1.46	0.60	1.29



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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
3208061	Drill Core	5.12	6	<3	<2	0.6	12.9	14.0	18	<0.5	20.5	4.4	374	2.80	38	<0.5	0.6	43	<0.5	2.5	<0.5
3208062	Drill Core	5.50	9	<3	<2	0.7	15.0	27.4	77	1.1	26.9	7.2	938	6.58	35	<0.5	0.6	110	<0.5	4.4	<0.5
3208063	Drill Core	5.63	16	<3	<2	2.8	37.2	50.2	46	1.9	45.3	12.8	792	6.36	45	0.7	2.5	24	<0.5	8.3	<0.5
3208064	Drill Core	6.75	5	<3	<2	1.1	35.0	35.2	72	0.9	34.5	6.2	700	4.90	31	<0.5	1.1	59	<0.5	5.2	<0.5



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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	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
3208061	Drill Core	<10	0.46	0.043	2.9	3.0	0.14	200	0.001	0.14	<0.01	0.07	<0.5	<0.05	1.3	<0.5	1.48	<5	<2	88.60	2.13
3208062	Drill Core	12	2.07	0.024	3.4	4.6	0.58	221	0.001	0.13	<0.01	0.06	<0.5	0.16	<0.5	<0.5	4.03	<5	<2	75.80	1.88
3208063	Drill Core	18	0.28	0.050	9.5	5.7	0.13	417	0.002	0.28	<0.01	0.14	<0.5	0.13	2.2	<0.5	4.01	<5	3	76.70	5.02
3208064	Drill Core	13	0.83	0.081	4.6	4.2	0.24	280	0.002	0.18	<0.01	0.09	<0.5	0.08	1.2	<0.5	2.85	<5	<2	82.40	2.54



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CERTIFICATE OF ANALYSIS

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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	LF726
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
3208061	Drill Core	3.86	0.61	0.28	0.55	0.06	0.10	0.10	<0.01	0.15	<0.01	<0.01	<0.01	2.06	98.54	1.40	0.56	1.55	
3208062	Drill Core	9.21	2.84	1.04	0.49	0.13	0.10	0.06	<0.01	0.13	<0.01	<0.01	<0.01	5.63	97.37	4.76	1.63	4.28	
3208063	Drill Core	8.95	0.43	0.36	1.30	0.11	0.27	0.12	<0.01	0.34	<0.01	<0.01	<0.01	5.57	99.27	1.90	1.30	4.12	
3208064	Drill Core	6.93	1.16	0.45	0.65	0.10	0.13	0.16	<0.01	0.16	<0.01	<0.01	<0.01	3.88	98.63	2.41	0.98	3.04	



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QUALITY CONTROL REPORT

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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
3208050	Drill Core	3.39	3	<3	<2	0.6	6.8	8.8	<5	<0.5	13.2	3.8	187	1.38	11	<0.5	1.2	34	<0.5	2.0	<0.5
3208063	Drill Core	5.63	16	<3	<2	2.8	37.2	50.2	46	1.9	45.3	12.8	792	6.36	45	0.7	2.5	24	<0.5	8.3	<0.5
Pulp Duplicates																					
3208001	Drill Core	3.69	9	<3	7	13.8	46.0	64.7	63	0.7	54.3	5.9	145	2.50	31	1.9	3.6	65	<0.5	14.2	<0.5
REP 3208001	QC																				
3208004	Drill Core	4.57	9	<3	7	17.5	56.2	76.2	580	1.1	70.6	9.4	444	3.53	38	2.7	3.9	46	1.2	12.2	<0.5
REP 3208004	QC		7	<3	7																
3208007	Drill Core	5.03	7	<3	4	22.2	56.7	92.9	155	1.4	77.2	10.7	459	3.01	46	3.0	4.8	53	<0.5	16.8	<0.5
REP 3208007	QC					23.0	55.7	93.4	157	1.4	77.0	10.6	493	3.05	48	2.9	4.8	52	<0.5	16.7	<0.5
3208013	Drill Core	4.47	50	<3	7	5.8	204.6	>40000	>200000	319.2	22.4	45.0	162	2.47	160	0.9	1.4	11	1806.6	342.4	<0.5
REP 3208013	QC																				
3208023	Drill Core	3.76	21	<3	<2	3.9	55.6	105.2	51	1.3	60.3	28.0	403	4.81	149	1.5	5.1	27	<0.5	13.7	<0.5
REP 3208023	QC		20	<3	2																
3208030	Drill Core	4.50	17	<3	3	4.9	86.1	81.6	125	1.5	65.3	9.7	363	4.25	127	2.5	5.7	21	<0.5	27.1	<0.5
REP 3208030	QC																				
3208031	Drill Core	4.67	20	<3	5	6.7	71.6	73.5	45	2.1	72.0	10.0	225	2.91	56	1.2	7.4	14	<0.5	19.4	<0.5
REP 3208031	QC																				
3208033	Drill Core	7.26	13	<3	6	4.6	82.0	70.1	62	1.4	66.0	9.9	296	3.09	40	1.1	7.1	19	<0.5	14.8	<0.5
REP 3208033	QC																				
3208035	Drill Core	4.03	17	<3	5	5.1	67.2	91.6	61	1.4	79.7	12.0	905	4.31	56	1.5	8.4	21	<0.5	13.6	<0.5
REP 3208035	QC		15	<3	2																
3208041	Drill Core	5.37	5	<3	<2	1.0	21.9	26.9	<5	0.8	21.2	7.6	637	4.10	28	<0.5	0.9	108	<0.5	5.2	<0.5
REP 3208041	QC					0.9	21.3	26.7	<5	0.8	22.7	7.5	614	4.07	26	<0.5	0.9	107	<0.5	5.0	<0.5
3208056	Drill Core	6.12	72	<3	5	1.3	80.2	248.1	36	6.1	79.3	21.5	1263	17.55	190	<0.5	0.9	217	<0.5	22.2	<0.5
REP 3208056	QC		73	5	5																
3208057	Drill Core	5.15	46	<3	<2	0.8	43.1	118.0	60	2.7	46.8	10.8	1110	10.21	121	<0.5	0.6	316	<0.5	9.3	<0.5
REP 3208057	QC																				
3208058	Drill Core	5.79	45	<3	4	0.8	28.2	75.2	8	2.8	35.7	9.7	338	8.24	77	<0.5	0.7	57	<0.5	10.0	<0.5
REP 3208058	QC																				



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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	%	%
3208050	Drill Core	<10	0.62	0.027	4.6	7.5	0.18	312	0.002	0.18	<0.01	0.08	<0.5	<0.05	0.7	<0.5	0.80	<5	<2	90.10	2.62
3208063	Drill Core	18	0.28	0.050	9.5	5.7	0.13	417	0.002	0.28	<0.01	0.14	<0.5	0.13	2.2	<0.5	4.01	<5	3	76.70	5.02
Pulp Duplicates																					
3208001	Drill Core	76	0.71	0.110	7.1	14.7	0.23	1449	0.004	0.50	<0.01	0.18	<0.5	0.18	1.5	0.8	2.54	<5	5	74.80	8.11
REP 3208001	QC																			74.90	8.11
3208004	Drill Core	70	0.28	0.110	8.8	11.9	0.03	1083	0.004	0.46	<0.01	0.16	<0.5	0.33	1.6	0.6	1.85	<5	5	76.20	7.58
REP 3208004	QC																				
3208007	Drill Core	54	0.37	0.083	9.4	11.7	0.11	854	0.003	0.48	<0.01	0.24	<0.5	0.25	2.1	0.7	1.67	<5	3	75.20	8.44
REP 3208007	QC	54	0.40	0.072	9.6	11.2	0.10	827	0.003	0.47	<0.01	0.25	<0.5	0.20	1.6	0.7	1.68	<5	3		
3208013	Drill Core	13	0.11	0.026	1.6	3.2	0.03	210	<0.001	0.14	<0.01	0.06	<0.5	208.52	<0.5	1.9	22.81	8	9	11.10	1.71
REP 3208013	QC																				
3208023	Drill Core	32	0.44	0.083	12.2	7.5	0.10	771	0.003	0.44	<0.01	0.23	<0.5	0.26	1.6	<0.5	3.72	<5	3	73.20	8.44
REP 3208023	QC																				
3208030	Drill Core	30	0.14	0.070	7.8	7.8	0.03	824	0.002	0.42	<0.01	0.14	<0.5	0.23	1.5	0.6	3.29	<5	5	73.50	9.40
REP 3208030	QC																			73.50	9.40
3208031	Drill Core	26	0.10	0.058	9.3	7.8	0.02	738	0.003	0.46	<0.01	0.23	<0.5	0.22	2.3	0.5	2.71	<5	4	71.60	12.20
REP 3208031	QC																				
3208033	Drill Core	29	0.13	0.056	11.0	7.9	0.02	786	0.003	0.47	<0.01	0.25	<0.5	0.11	1.1	0.5	2.55	<5	6	71.80	11.70
REP 3208033	QC																				
3208035	Drill Core	28	0.16	0.057	13.0	9.4	0.03	809	0.002	0.46	<0.01	0.25	<0.5	0.09	2.4	<0.5	2.49	<5	5	68.20	12.50
REP 3208035	QC																			68.10	12.50
3208041	Drill Core	17	2.23	0.106	3.6	4.5	0.61	292	0.002	0.18	<0.01	0.08	<0.5	0.06	1.5	<0.5	2.87	<5	<2	79.50	2.19
REP 3208041	QC	18	2.09	0.096	3.4	5.2	0.60	287	0.002	0.19	<0.01	0.08	<0.5	0.07	1.5	<0.5	2.82	<5	<2		
3208056	Drill Core	15	2.77	0.057	1.5	4.4	0.83	199	0.001	0.11	<0.01	0.05	<0.5	0.24	2.2	2.2	17.00	<5	3	48.70	1.73
REP 3208056	QC																				
3208057	Drill Core	11	2.75	0.015	1.9	4.2	0.85	196	<0.001	0.10	<0.01	0.06	<0.5	0.05	2.7	1.0	8.33	<5	<2	66.40	1.58
REP 3208057	QC																			66.10	1.56
3208058	Drill Core	<10	0.76	0.023	2.6	5.0	0.26	233	0.001	0.13	<0.01	0.07	<0.5	0.16	1.2	0.7	8.13	<5	<2	77.20	2.02
REP 3208058	QC																				



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QUALITY CONTROL REPORT

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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
	Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
	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	0.1
3208050	Drill Core	2.13	0.87	0.39	0.66	0.04	0.14	0.06	<0.01	0.22	<0.01	<0.01	<0.01	1.77	99.04	0.92	0.56	0.77	
3208063	Drill Core	8.95	0.43	0.36	1.30	0.11	0.27	0.12	<0.01	0.34	<0.01	<0.01	<0.01	5.57	99.27	1.90	1.30	4.12	
Pulp Duplicates																			
3208001	Drill Core	4.07	1.03	0.75	1.82	0.04	0.41	0.28	0.03	1.13	<0.01	<0.01	<0.01	6.70	99.40	0.72	3.13	2.69	
REP 3208001	QC	4.07	1.03	0.75	1.82	0.04	0.41	0.28	0.01	1.14	<0.01	<0.01	<0.01	6.70	99.47				
3208004	Drill Core	5.33	0.41	0.35	1.65	0.08	0.41	0.28	0.01	0.86	<0.01	<0.01	0.06	6.14	99.57	1.11	3.05	1.94	
REP 3208004	QC																		
3208007	Drill Core	4.76	0.52	0.51	2.12	0.08	0.43	0.19	0.01	0.55	<0.01	<0.01	0.01	6.91	99.89	1.27	3.66	1.79	
REP 3208007	QC																		
3208013	Drill Core	3.83	0.18	0.09	0.45	0.04	0.11	0.06	<0.01	0.10	0.01	20.06	>24	11.01	98.86	0.39	0.85	23.18	39.0
REP 3208013	QC																		39.0
3208023	Drill Core	7.49	0.66	0.43	2.12	0.07	0.47	0.22	<0.01	0.62	<0.01	<0.01	<0.01	5.59	99.49	1.20	1.29	3.84	
REP 3208023	QC																		
3208030	Drill Core	6.48	0.24	0.37	2.32	0.05	0.54	0.16	0.01	0.73	<0.01	<0.01	0.04	5.42	99.44	0.65	1.21	3.45	
REP 3208030	QC	6.45	0.24	0.37	2.29	0.05	0.53	0.16	0.01	0.73	<0.01	<0.01	0.01	5.42	99.33				
3208031	Drill Core	4.53	0.19	0.46	3.11	0.04	0.69	0.14	0.02	0.92	<0.01	<0.01	<0.01	5.67	99.78	0.34	1.34	2.72	
REP 3208031	QC																1.35	2.80	
3208033	Drill Core	4.83	0.22	0.44	2.99	0.05	0.67	0.16	0.02	0.91	<0.01	<0.01	<0.01	5.06	99.06	0.55	1.33	2.69	
REP 3208033	QC															0.74			
3208035	Drill Core	6.58	0.22	0.47	3.17	0.12	0.74	0.13	0.01	0.92	<0.01	<0.01	<0.01	5.93	99.17	1.67	1.76	2.50	
REP 3208035	QC	6.62	0.22	0.47	3.19	0.12	0.73	0.13	0.01	0.93	<0.01	<0.01	<0.01	5.93	99.16				
3208041	Drill Core	6.09	3.06	1.11	0.56	0.09	0.11	0.24	<0.01	0.16	<0.01	<0.01	<0.01	4.87	98.03	3.36	1.50	3.03	
REP 3208041	QC																		
3208056	Drill Core	25.40	3.78	1.45	0.44	0.16	0.09	0.12	<0.01	0.13	<0.01	0.02	<0.01	14.01	96.08	4.60	2.06	17.07	
REP 3208056	QC																		
3208057	Drill Core	14.20	3.75	1.47	0.39	0.15	0.09	0.04	<0.01	0.12	<0.01	0.01	<0.01	7.79	96.05	5.42	1.94	8.57	
REP 3208057	QC	14.30	3.76	1.47	0.40	0.15	0.09	0.04	<0.01	0.12	<0.01	<0.01	<0.01	7.79	95.85				
3208058	Drill Core	11.10	1.01	0.44	0.52	0.05	0.11	0.05	<0.01	0.16	<0.01	<0.01	<0.01	5.85	98.60	1.23	0.58	8.12	
REP 3208058	QC																0.57	8.13	



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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 3208059	QC																				
3208060	Drill Core	5.36	9	<3	<2	0.6	7.5	10.7	11	0.5	20.8	5.0	365	2.14	30	<0.5	0.7	42	<0.5	2.9	<0.5
REP 3208060	QC					0.7	8.2	11.5	11	0.6	21.4	4.9	399	2.15	28	<0.5	0.8	45	<0.5	3.3	<0.5
Core Reject Duplicates																					
3208025	Drill Core	3.14	10	<3	<2	4.7	489.7	42.7	41	2.4	38.8	18.8	306	2.41	89	0.8	1.4	16	<0.5	4.0	<0.5
DUP 3208025	QC		10	<3	<2	5.4	472.4	43.7	43	2.6	37.8	19.6	321	2.36	89	0.8	1.4	15	<0.5	4.1	<0.5
3208059	Drill Core	5.80	32	<3	4	0.6	18.8	59.9	9	2.4	31.8	8.0	416	7.88	61	<0.5	0.7	61	<0.5	7.0	<0.5
DUP 3208059	QC		32	<3	<2	0.6	20.0	55.0	8	2.3	29.9	8.1	427	7.44	58	<0.5	0.7	61	<0.5	7.0	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD CZN-4	Standard																				
STD GBM309-15	Standard																				
STD GBM398-4-AR	Standard					942.6	4065.7	11975.5	5468	50.5	4228.0	2122.0	5331	3.92	7	0.6	0.8	13	9.6	7.6	12.2
STD GBM398-4-AR	Standard					935.3	3979.1	11784.5	5280	49.8	4305.5	1926.9	5306	3.74	8	0.7	0.8	13	10.3	7.5	12.9
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 OREAS133B(D)	Standard																				
STD OREAS135	Standard					8.3	261.3	17166.7	26911	54.2	33.4	26.8	3928	8.62	942	8.9	10.7	27	69.4	36.7	4.7
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				



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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 3208059	QC																				
3208060	Drill Core	<10	0.71	0.055	3.2	4.1	0.20	230	0.001	0.14	<0.01	0.07	<0.5	<0.05	1.8	<0.5	1.22	<5	<2	89.60	2.09
REP 3208060	QC	<10	0.73	0.057	3.6	4.0	0.20	237	0.001	0.15	<0.01	0.07	<0.5	0.10	0.6	<0.5	1.22	<5	<2		
Core Reject Duplicates																					
3208025	Drill Core	33	0.12	0.051	7.0	7.0	0.06	317	0.001	0.19	<0.01	0.09	<0.5	0.08	<0.5	<0.5	1.08	<5	<2	87.90	2.90
DUP 3208025	QC	30	0.12	0.057	8.1	6.5	0.06	306	0.001	0.19	<0.01	0.08	<0.5	0.07	<0.5	<0.5	1.09	<5	<2	88.20	2.91
3208059	Drill Core	<10	1.07	0.022	2.9	4.4	0.32	244	0.001	0.13	<0.01	0.07	<0.5	0.17	1.5	<0.5	7.45	<5	<2	76.40	2.00
DUP 3208059	QC	<10	1.03	0.026	3.0	4.2	0.32	226	0.001	0.14	<0.01	0.07	<0.5	0.22	0.9	<0.5	7.04	<5	<2	77.40	2.01
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD CZN-4	Standard																				
STD GBM309-15	Standard																				
STD GBM398-4-AR	Standard	18	0.34	0.020	2.8	2045.3	0.13	21	0.110	0.44	0.26	0.10	3.3	3.29	1.2	<0.5	0.94	<5	2		
STD GBM398-4-AR	Standard	36	0.35	0.018	2.7	1998.0	0.13	19	0.111	0.46	0.25	0.10	2.8	3.15	1.4	<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 OREAS133B(D)	Standard																			33.70	6.83
STD OREAS135	Standard	31	1.83	0.091	38.3	20.5	0.81	389	0.024	1.07	0.02	0.48	2.6	1.31	2.7	6.3	7.13	<5	<2		
STD OREAS133B(D)	Standard																			33.50	6.82
STD OREAS133B(D)	Standard																			33.70	6.84



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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 %	LF726 Zn %
		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	0.1
REP 3208059	QC															1.86			
3208060	Drill Core	3.02	0.99	0.37	0.54	0.06	0.11	0.12	<0.01	0.15	<0.01	<0.01	<0.01	1.75	98.85	1.46	0.60	1.29	
REP 3208060	QC																		
Core Reject Duplicates																			
3208025	Drill Core	3.92	0.20	0.21	0.71	0.06	0.13	0.14	<0.01	0.22	0.05	<0.01	<0.01	2.88	99.40	0.94	1.36	1.16	
DUP 3208025	QC	3.87	0.19	0.21	0.71	0.06	0.14	0.13	<0.01	0.23	0.05	<0.01	<0.01	2.89	99.68	0.89	1.38	1.14	
3208059	Drill Core	10.70	1.44	0.57	0.52	0.06	0.10	0.06	<0.01	0.15	<0.01	<0.01	<0.01	5.95	98.00	1.98	0.75	7.60	
DUP 3208059	QC	10.10	1.40	0.55	0.52	0.06	0.10	0.07	<0.01	0.15	<0.01	<0.01	<0.01	5.33	97.75	2.21	0.74	7.09	
Reference Materials																			
STD COO1	Standard															2.39			
STD COO1	Standard															2.48			
STD COO1	Standard															2.36			
STD COO1	Standard															2.42			
STD COO1	Standard															2.39			
STD COO1	Standard															2.35			
STD CZN-4	Standard																		55.6
STD GBM309-15	Standard																0.23	27.78	
STD GBM398-4-AR	Standard																		
STD GBM398-4-AR	Standard																		
STD GS311-1	Standard																1.00	2.38	
STD GS311-1	Standard																0.98	2.38	
STD GS311-1	Standard																0.98	2.32	
STD GS910-4	Standard																2.68	8.25	
STD GS910-4	Standard																2.67	8.42	
STD GS910-4	Standard																2.63	8.23	
STD OREAS133B(D)	Standard	11.50	5.32	3.71	3.44	0.16	0.23	0.10	<0.01	0.06	0.03	5.05	11.33	13.00	97.64				
STD OREAS135	Standard																		
STD OREAS133B(D)	Standard	11.50	5.30	3.70	3.45	0.16	0.23	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.42				
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	97.68				



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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 OREAS605	Standard					4.9	53254.6	918.3	2256	>1000	1652.3	101.9	93	3.70	1703	0.9	2.4	50	16.1	329.8	19.4
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard					1.0	10988.5	234.0	706	4.6	29.6	29.3	1134	8.02	14	1.7	13.1	12	1.1	1.5	65.4
STD OREAS927-AR	Standard					1.2	11098.1	243.0	737	5.1	28.8	29.6	1179	8.48	15	1.7	13.0	15	1.2	1.4	73.3
STD PD05	Standard		501	430	616																
STD PD05	Standard		499	431	609																
STD PG04	Standard		998	855	1165																
STD PG04	Standard		963	866	1197																
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					
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 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 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 CZN-4 Expected																					
STD PD05 Expected			519	430	596																
STD PG04 Expected			1004	903	1196																
STD COO1 Expected																					
BLK	Blank																				
BLK	Blank																				



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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
STD OREAS605	Standard	<10	0.17	0.011	7.5	32.9	0.03	181	0.010	0.71	0.03	0.14	7.3	1.63	1.0	16.0	8.03	6	93		
STD OREAS72B	Standard																			51.30	8.98
STD OREAS72B	Standard																			51.20	8.95
STD OREAS72B	Standard																			51.20	8.94
STD OREAS927-AR	Standard	32	0.28	0.055	26.3	38.4	1.92	44	0.082	3.25	<0.01	0.23	4.7	0.12	3.2	<0.5	1.72	9	15		
STD OREAS927-AR	Standard	32	0.29	0.064	27.9	41.5	1.96	45	0.073	3.28	<0.01	0.25	5.1	0.10	4.2	<0.5	1.75	10	18		
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.60	20.70
STD SY-4(D)	Standard																			49.60	20.70
STD SY-4(D)	Standard																			49.60	20.70
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					
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 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 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 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 SY-4(D) Expected																				49.9	20.69
STD OREAS72B Expected																				51.16	8.97
STD OREAS133B(D) Expected																				33.83	6.91
STD CZN-4 Expected																					
STD PD05 Expected																					
STD PG04 Expected																					
STD COO1 Expected																					
BLK	Blank																				
BLK	Blank																				



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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

Project:

MacMillan Pass

Report Date:

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QUALITY CONTROL REPORT

WHI18000730.1

		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 %	LF726 Zn %	
		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	0.1	
STD OREAS605	Standard																			
STD OREAS72B	Standard	9.88	3.96	15.90	1.31	0.15	0.35	0.06	0.15	0.04	0.02	<0.01	<0.01	5.12	98.54					
STD OREAS72B	Standard	9.87	3.97	15.90	1.32	0.15	0.35	0.06	0.14	0.04	0.02	<0.01	0.01	5.12	98.41					
STD OREAS72B	Standard	9.76	3.97	15.90	1.32	0.14	0.34	0.06	0.14	0.04	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 PG04	Standard																			
STD PG04	Standard																			
STD SY-4(D)	Standard	6.17	7.99	0.53	1.66	0.11	0.30	0.16	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.78					
STD SY-4(D)	Standard	6.18	8.00	0.52	1.66	0.11	0.30	0.16	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.80					
STD SY-4(D)	Standard	6.17	8.00	0.52	1.65	0.11	0.30	0.16	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.79					
STD GS311-1 Expected																1.02		2.35		
STD GS910-4 Expected																2.65		8.27		
STD GBM309-15 Expected																0.22		28.84		
STD OREAS135 Expected																				
STD OREAS927-AR 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 CZN-4 Expected																				55.07
STD PD05 Expected																				
STD PG04 Expected																				
STD COO1 Expected																2.37				
BLK	Blank															<0.02		<0.02		
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																				
SI BLK	Blank																				
BLK	Blank		3	<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																				
SI 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
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		2	<3	2																
BLK	Blank		<2	<3	<2																
BLK	Blank		2	<3	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<3	<2	1.2	3.0	1.6	31	<0.5	0.7	3.2	541	1.75	<5	0.6	2.4	23	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		<2	<3	<2	1.3	3.2	1.5	32	<0.5	0.6	3.0	520	1.79	<5	<0.5	2.4	25	<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																				
SI BLK	Blank																			98.90	0.34
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																				
SI BLK	Blank																			100.00	0.33
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	<0.001	<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		
SI BLK	Blank																			99.10	0.33
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	22	0.62	0.040	6.7	1.9	0.44	71	0.093	0.88	0.10	0.10	<0.5	<0.05	3.2	<0.5	<0.05	<5	<2	71.30	14.10
ROCK-WHI	Prep Blank	24	0.68	0.033	6.5	1.9	0.42	76	0.094	0.95	0.12	0.11	<0.5	<0.05	4.0	<0.5	<0.05	<5	<2	70.80	13.90



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		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	0.1
BLK	Blank																<0.02	<0.02	
SI BLK	Blank	0.02	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.00	99.36				
BLK	Blank																		
BLK	Blank																		
BLK	Blank															0.04			
SI BLK	Blank	0.01	0.01	0.02	<0.01	0.02	0.03	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	100.47				
BLK	Blank																		
BLK	Blank																		
SI BLK	Blank	<0.01	0.01	0.02	<0.01	0.02	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.00	99.55				
BLK	Blank															<0.02			
SI BLK	Blank																		<0.1
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank															<0.02			
Prep Wash																			
ROCK-WHI	Prep Blank	3.17	2.15	0.88	2.02	0.11	0.36	0.10	<0.01	0.09	<0.01	<0.01	<0.01	0.97	99.85	0.24	0.10	0.04	
ROCK-WHI	Prep Blank	3.21	2.14	0.86	2.00	0.11	0.34	0.09	<0.01	0.10	<0.01	<0.01	<0.01	1.05	99.15	0.27	0.11	0.04	