



BUREAU MINERAL LABORATORIES
VERITAS Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

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

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: July 15, 2019
Report Date: August 13, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI19000201.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-010
P.O. Number
Number of Samples: 68

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

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	67	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	67	Extra clean rock wash between samples in crusher			WHI
PULSW	67	Extra Wash with Silica between each sample			WHI
FA330	67	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
AQ270	68	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	68	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	68	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	68	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	68	Inorganic Carbon	0.2	Completed	VAN
TC009	68	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	68	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

V2O5 from LF725 is Qualitative Data only.


SOFIA DEVOTA
XRF Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200630	Drill Core	4.64	23.2	37.8	106.7	74	0.8	12.3	0.7	28	3.51	13	2.5	5.0	15	<0.5	7.6	<0.5	33	<0.01	0.012			
3200631	Drill Core	5.48	26.0	38.7	82.5	21	0.6	27.1	3.2	31	2.54	17	2.5	5.2	17	<0.5	6.3	<0.5	29	<0.01	0.016			
3200632	Drill Core	4.85	17.9	289.1	92.2	36	<0.5	74.9	11.6	50	3.46	27	2.8	5.5	17	<0.5	6.9	<0.5	26	<0.01	0.012			
3200633	Drill Core	4.51	15.6	412.5	153.3	35	0.7	70.1	17.3	79	4.53	48	4.6	8.7	36	<0.5	9.7	<0.5	31	<0.01	0.027			
3200634	Drill Core	5.63	15.9	604.1	145.4	141	1.0	80.2	20.4	78	4.87	64	3.8	7.1	20	0.8	9.4	<0.5	31	<0.01	0.014			
3200635	Drill Core	4.64	31.9	776.7	124.6	279	0.9	127.9	15.6	43	3.73	81	3.1	5.9	28	1.2	16.9	<0.5	30	<0.01	0.023			
3200636	Drill Core	3.88	28.2	303.3	84.3	104	0.7	109.3	13.6	47	2.51	68	2.6	5.8	34	<0.5	13.1	<0.5	38	<0.01	0.026			
3200637	Drill Core	3.19	30.8	235.3	101.4	26	1.0	103.9	13.9	74	3.27	65	3.9	7.2	16	<0.5	17.8	<0.5	42	<0.01	0.016			
3200638	Drill Core	5.28	25.9	295.6	173.8	16	0.9	82.5	10.7	56	2.30	43	4.4	7.7	51	<0.5	12.5	<0.5	65	0.07	0.114			
3200639	Drill Core	4.03	26.3	232.5	129.3	24	0.8	89.9	10.4	68	3.29	38	5.1	6.4	36	<0.5	9.3	<0.5	57	<0.01	0.034			
3200640	Rock	0.94	1.5	61.2	2.5	36	<0.5	4.3	9.7	464	3.16	<5	0.9	2.7	109	<0.5	<0.5	<0.5	114	1.16	0.058			
3200641	Drill Core	4.02	24.8	336.5	114.2	25	0.7	76.8	9.1	60	2.61	32	4.4	6.8	38	<0.5	8.1	<0.5	48	<0.01	0.023			
3200642	Drill Core	3.79	25.7	374.8	112.6	25	0.8	81.4	9.8	64	2.69	36	4.3	6.6	34	<0.5	8.7	<0.5	50	<0.01	0.022			
3200643	Drill Core	6.66	20.7	172.1	105.6	14	0.7	70.7	8.9	53	2.40	30	3.1	5.8	51	<0.5	9.8	<0.5	68	0.01	0.039			
3200644	Drill Core	6.77	23.1	244.7	116.5	12	0.7	79.1	8.7	55	2.71	34	3.7	6.3	49	<0.5	10.6	<0.5	66	0.03	0.053			
3200645	Drill Core	5.23	21.7	98.9	83.0	20	0.7	72.9	9.0	55	2.17	35	3.6	6.6	46	<0.5	13.7	<0.5	67	0.07	0.065			
3200646	Drill Core	4.87	24.1	151.3	76.9	23	0.6	76.8	8.3	48	2.22	38	3.6	5.8	30	<0.5	16.7	<0.5	63	<0.01	0.025			
3200647	Drill Core	6.74	23.2	138.4	83.5	37	0.6	72.8	7.4	53	2.05	41	3.3	5.8	29	<0.5	18.1	<0.5	67	<0.01	0.025			
3200648	Drill Core	4.91	22.4	416.7	167.5	34	0.7	70.3	7.1	49	3.51	47	4.8	5.4	131	<0.5	20.3	<0.5	94	0.03	0.130			
3200649	Drill Core	3.92	19.9	475.2	94.5	54	0.6	78.6	6.7	58	2.39	57	4.6	6.2	13	<0.5	21.2	<0.5	75	<0.01	0.015			
3200650	Drill Core	2.97	1.0	95.4	136.7	15	0.5	52.9	20.2	20	0.28	14	15.9	3.7	63	<0.5	3.5	4.8	<10	<0.01	0.071			
3200651	Drill Core	4.10	20.0	340.0	92.3	7	0.7	80.7	7.4	57	2.94	55	3.3	5.4	12	<0.5	21.8	<0.5	72	<0.01	0.010			
3200652	Drill Core	6.03	20.6	184.2	98.5	9	0.9	71.9	8.1	62	2.66	49	3.5	5.2	27	<0.5	19.7	<0.5	80	0.05	0.035			
3200653	Drill Core	6.41	9.1	150.6	89.1	6	0.6	66.0	11.0	80	2.42	40	1.9	5.1	17	<0.5	12.6	<0.5	48	<0.01	0.012			
3200654	Drill Core	3.24	5.2	984.5	241.8	18	<0.5	62.0	10.2	65	4.95	26	2.3	5.1	85	<0.5	10.2	<0.5	60	0.04	0.075			
3200655	Drill Core	6.80	7.8	305.8	127.9	10	0.8	71.7	9.1	56	3.52	31	1.8	5.9	33	<0.5	10.2	<0.5	44	<0.01	0.025			
3200656	Drill Core	5.18	23.8	195.4	110.1	15	0.8	83.8	8.8	60	2.41	38	3.2	6.3	31	<0.5	13.1	<0.5	67	0.06	0.057			
3200657	Drill Core	6.75	18.1	199.8	137.7	11	1.0	84.6	10.1	88	3.04	39	3.0	6.0	32	<0.5	13.6	<0.5	56	0.05	0.044			
3200658	Drill Core	6.43	27.1	419.8	247.9	14	1.4	110.5	13.2	80	3.35	50	3.2	6.1	38	<0.5	13.1	<0.5	41	<0.01	0.026			
3200659	Drill Core	6.58	26.4	489.6	237.2	27	1.4	105.0	13.2	304	4.27	56	3.5	5.6	13	<0.5	11.3	<0.5	40	0.02	0.016			



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	Method	Analyte	Unit	MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725			
					La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
					ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
					0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
3200630	Drill Core				9.0	8.1	0.02	1157	0.004	0.43	<0.01	0.20	<0.5	0.38	1.1	<0.5	3.29	<5	8	73.65	8.89	5.06	0.01	0.38
3200631	Drill Core				8.7	7.8	0.01	1006	0.004	0.37	<0.01	0.18	<0.5	0.29	1.4	<0.5	2.31	<5	6	75.85	8.51	3.73	0.01	0.39
3200632	Drill Core				7.1	8.2	0.01	814	0.004	0.34	<0.01	0.16	<0.5	0.23	2.2	0.7	3.56	<5	3	75.25	7.52	5.25	0.01	0.34
3200633	Drill Core				9.2	9.4	0.01	788	0.004	0.41	<0.01	0.18	0.8	0.40	4.3	0.7	4.91	<5	6	69.09	8.68	6.64	0.01	0.40
3200634	Drill Core				7.7	7.3	0.01	670	0.003	0.41	<0.01	0.19	<0.5	0.30	3.7	0.8	5.45	<5	5	66.13	10.19	7.27	0.01	0.45
3200635	Drill Core				6.4	8.3	0.01	828	0.003	0.35	<0.01	0.17	0.5	0.20	3.6	1.1	4.12	<5	6	72.12	8.63	5.65	0.01	0.41
3200636	Drill Core				9.0	10.5	0.02	1149	0.003	0.44	<0.01	0.20	0.5	0.11	4.1	0.9	2.53	<5	6	75.53	8.69	3.73	0.02	0.43
3200637	Drill Core				9.5	10.5	0.02	909	0.003	0.44	<0.01	0.20	<0.5	0.12	2.8	0.9	3.26	<5	4	73.22	9.52	4.80	0.01	0.41
3200638	Drill Core				12.4	16.0	0.02	1006	0.004	0.57	<0.01	0.20	<0.5	0.18	3.9	0.9	2.38	<5	5	74.10	9.98	3.48	0.15	0.40
3200639	Drill Core				9.9	14.6	0.01	1025	0.003	0.39	<0.01	0.19	<0.5	0.12	3.2	0.8	3.32	<5	4	73.32	8.76	4.78	0.03	0.38
3200640	Rock				7.6	6.0	0.89	189	0.186	2.12	0.30	0.35	<0.5	<0.05	4.8	<0.5	<0.05	6	<2	60.79	16.93	6.42	6.29	2.92
3200641	Drill Core				11.1	11.1	0.01	1018	0.003	0.43	<0.01	0.20	<0.5	0.12	3.2	0.6	2.68	<5	4	74.41	9.19	3.88	0.02	0.40
3200642	Drill Core				11.2	12.4	0.02	1036	0.004	0.46	<0.01	0.21	<0.5	0.11	3.3	0.6	2.72	<5	4	74.47	9.14	3.97	0.02	0.40
3200643	Drill Core				10.3	13.5	0.02	1239	0.003	0.50	<0.01	0.23	<0.5	0.17	2.5	0.7	2.41	<5	5	75.40	9.42	3.57	0.03	0.41
3200644	Drill Core				10.0	12.5	0.02	989	0.003	0.48	<0.01	0.22	<0.5	0.07	2.5	0.5	2.73	<5	5	75.56	9.54	4.06	0.06	0.44
3200645	Drill Core				10.2	13.0	0.02	1009	0.004	0.49	<0.01	0.23	<0.5	0.13	1.7	0.6	2.15	<5	4	76.20	9.63	3.30	0.10	0.44
3200646	Drill Core				11.1	12.2	0.02	1016	0.003	0.46	<0.01	0.22	<0.5	0.09	2.3	0.6	2.25	<5	6	75.59	9.37	3.31	0.02	0.39
3200647	Drill Core				11.5	13.1	0.02	1055	0.003	0.45	<0.01	0.24	<0.5	0.10	2.7	<0.5	2.06	<5	4	76.94	9.42	3.12	0.02	0.41
3200648	Drill Core				9.6	17.6	0.02	1883	0.004	0.60	<0.01	0.23	0.7	0.15	2.5	0.6	3.55	<5	7	73.92	8.69	5.06	0.06	0.38
3200649	Drill Core				10.6	14.9	0.02	805	0.004	0.47	<0.01	0.24	0.6	0.17	1.9	0.7	2.40	<5	6	76.47	8.93	3.56	0.02	0.50
3200650	Drill Core				6.2	9.9	<0.01	932	<0.001	0.80	<0.01	0.29	0.9	<0.05	4.5	0.6	0.17	<5	<2	71.95	17.37	0.89	0.03	0.10
3200651	Drill Core				8.4	12.6	0.02	823	0.003	0.44	<0.01	0.22	<0.5	0.10	2.5	0.7	2.97	<5	8	76.42	8.54	4.33	0.01	0.42
3200652	Drill Core				8.5	13.4	0.02	789	0.003	0.43	<0.01	0.21	<0.5	0.12	2.1	0.8	2.61	<5	7	77.47	7.60	3.91	0.08	0.34
3200653	Drill Core				8.9	10.4	0.02	807	0.003	0.40	<0.01	0.20	<0.5	0.08	1.5	<0.5	2.31	<5	4	79.00	8.04	3.60	0.02	0.34
3200654	Drill Core				7.7	12.0	0.01	1016	0.002	0.42	<0.01	0.15	<0.5	0.07	7.0	<0.5	5.23	<5	6	73.04	7.13	7.31	0.08	0.29
3200655	Drill Core				8.7	10.4	0.01	938	0.003	0.40	<0.01	0.19	5.2	0.11	2.1	<0.5	3.65	<5	4	76.25	8.10	5.26	0.02	0.35
3200656	Drill Core				9.4	13.9	0.02	1164	0.004	0.49	<0.01	0.23	<0.5	0.12	2.7	0.7	2.44	<5	6	74.87	9.60	3.66	0.10	0.41
3200657	Drill Core				9.2	14.1	0.02	1187	0.004	0.49	<0.01	0.22	<0.5	0.10	2.9	0.8	3.01	<5	4	74.40	9.23	4.50	0.09	0.38
3200658	Drill Core				9.3	15.1	0.01	1266	0.004	0.47	<0.01	0.21	<0.5	0.17	3.3	1.2	3.37	<5	5	74.01	8.78	4.88	0.02	0.38
3200659	Drill Core				7.3	13.7	0.02	935	0.003	0.39	<0.01	0.17	<0.5	0.17	2.6	1.3	3.99	<5	5	72.82	8.44	6.47	0.03	0.37



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200630 Drill Core	2.11	0.02	0.45	0.03	<0.01	0.76	<0.01	0.01	<0.01	8.10	99.59	0.04	3.97	3.38	3.66	0.31	<0.08	3.30	0.23
3200631 Drill Core	2.04	0.02	0.43	0.04	<0.01	0.71	<0.01	0.02	<0.01	7.68	99.53	0.04	4.24	2.40	3.74	0.50	<0.08	2.35	0.17
3200632 Drill Core	1.81	0.03	0.37	0.03	<0.01	0.60	0.02	0.01	<0.01	8.01	99.35	0.03	4.11	3.86	3.82	0.28	<0.08	3.80	0.18
3200633 Drill Core	2.08	0.03	0.45	0.08	<0.01	0.73	0.03	0.02	<0.01	10.84	99.21	0.03	5.65	4.99	5.35	0.30	<0.08	4.92	0.24
3200634 Drill Core	2.47	0.03	0.54	0.04	<0.01	0.78	0.05	0.03	0.01	11.68	99.85	0.04	6.19	5.49	5.92	0.26	<0.08	5.42	0.22
3200635 Drill Core	2.12	0.03	0.43	0.07	<0.01	0.66	0.07	0.02	0.03	8.56	98.93	0.04	4.26	4.23	4.03	0.22	<0.08	4.15	0.23
3200636 Drill Core	2.12	0.03	0.44	0.09	0.01	0.70	0.02	<0.01	<0.01	7.48	99.42	0.05	4.05	2.71	3.58	0.47	<0.08	2.65	0.17
3200637 Drill Core	2.33	0.03	0.52	0.06	0.01	0.74	0.01	0.02	<0.01	7.40	99.21	0.07	3.66	3.36	3.33	0.33	<0.08	3.31	0.15
3200638 Drill Core	2.36	0.03	0.49	0.41	0.01	0.77	0.02	0.03	<0.01	7.67	100.05	0.10	4.14	2.44	3.73	0.41	<0.08	2.39	0.15
3200639 Drill Core	2.12	0.03	0.45	0.08	0.01	0.73	0.02	0.02	<0.01	8.21	99.07	0.08	4.48	3.50	4.00	0.48	<0.08	3.44	0.15
3200640 Rock	1.53	0.15	0.53	0.13	<0.01	0.06	<0.01	<0.01	<0.01	0.99	100.12	0.02	0.03	<0.02	<0.02	<0.02	<0.08	<0.05	0.14
3200641 Drill Core	2.26	0.03	0.48	0.06	0.01	0.73	0.02	0.02	<0.01	7.29	98.91	0.08	3.86	2.78	3.42	0.44	<0.08	2.73	0.14
3200642 Drill Core	2.24	0.03	0.47	0.06	0.01	0.75	0.03	<0.01	<0.01	7.39	99.11	0.08	3.98	2.74	3.67	0.31	<0.08	2.69	0.14
3200643 Drill Core	2.33	0.03	0.49	0.11	0.01	0.77	<0.01	<0.01	<0.01	6.66	99.38	0.11	3.51	2.41	3.14	0.37	<0.08	2.37	0.14
3200644 Drill Core	2.39	0.03	0.50	0.14	0.01	0.78	0.01	0.02	<0.01	6.92	100.59	0.11	3.53	2.77	3.19	0.34	<0.08	2.72	0.15
3200645 Drill Core	2.39	0.03	0.49	0.16	0.01	0.77	<0.01	0.01	<0.01	6.46	100.13	0.11	3.39	2.16	3.18	0.21	<0.08	2.11	0.14
3200646 Drill Core	2.34	0.03	0.48	0.06	0.01	0.77	<0.01	<0.01	<0.01	6.60	99.09	0.13	3.44	2.26	3.05	0.39	<0.08	2.22	0.11
3200647 Drill Core	2.34	0.03	0.49	0.07	0.01	0.79	0.01	0.02	<0.01	6.28	100.06	0.12	3.30	2.10	3.00	0.30	<0.08	2.06	0.13
3200648 Drill Core	2.12	0.03	0.43	0.33	0.01	0.84	0.03	0.02	<0.01	7.42	99.49	0.12	3.45	3.56	3.24	0.21	<0.08	3.49	0.22
3200649 Drill Core	2.34	0.04	0.47	0.02	0.01	0.66	0.04	0.02	<0.01	5.84	99.04	0.14	2.61	2.53	2.47	0.14	<0.08	2.49	0.14
3200650 Drill Core	2.74	0.04	0.01	0.15	<0.01	0.28	<0.01	0.01	<0.01	4.56	98.23	<0.01	0.09	0.16	0.07	<0.02	<0.08	0.15	<0.05
3200651 Drill Core	2.21	0.03	0.44	0.02	0.01	0.67	0.03	0.02	<0.01	6.25	99.51	0.13	2.78	3.01	2.55	0.23	<0.08	2.96	0.15
3200652 Drill Core	1.92	0.03	0.42	0.08	0.01	0.62	<0.01	0.02	<0.01	6.24	98.82	0.13	3.19	2.71	2.79	0.40	<0.08	2.67	0.12
3200653 Drill Core	2.01	0.03	0.45	0.03	0.01	0.70	<0.01	0.02	<0.01	5.66	100.01	0.07	2.79	2.33	2.23	0.56	<0.08	2.30	0.11
3200654 Drill Core	1.67	0.03	0.38	0.22	<0.01	0.65	0.09	0.03	<0.01	7.63	98.68	0.06	3.00	5.35	2.88	0.12	<0.08	5.27	0.23
3200655 Drill Core	1.98	0.03	0.45	0.05	<0.01	0.78	0.02	0.01	<0.01	5.79	99.22	0.07	2.09	3.81	1.81	0.27	<0.08	3.76	0.15
3200656 Drill Core	2.38	0.04	0.50	0.13	0.02	1.01	0.03	0.02	<0.01	6.48	99.39	0.12	3.25	2.57	2.80	0.44	<0.08	2.53	0.13
3200657 Drill Core	2.22	0.04	0.48	0.10	0.01	1.01	0.01	0.02	<0.01	6.72	99.36	0.09	3.29	3.13	2.96	0.34	<0.08	3.08	0.15
3200658 Drill Core	2.08	0.03	0.43	0.05	<0.01	1.06	0.03	0.03	<0.01	7.52	99.47	0.04	3.73	3.48	3.40	0.33	<0.08	3.42	0.16
3200659 Drill Core	2.00	0.06	0.41	0.05	<0.01	1.08	0.04	0.03	<0.01	8.04	100.01	0.04	3.69	3.99	3.48	0.13	0.28	3.91	0.23



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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200660	Rock Pulp	0.07	4.2	471.3	34813.5	48548	56.5	18.5	44.1	2220	7.34	150	1.6	6.0	26	167.0	48.3	<0.5	28	4.91	0.053
3200661	Drill Core	3.41	19.5	404.6	190.7	36	1.0	94.3	11.6	652	4.57	45	2.7	5.2	13	<0.5	9.6	<0.5	50	0.06	0.034
3200662	Drill Core	2.87	19.6	311.4	198.8	36	1.1	99.2	11.2	662	4.69	51	3.0	5.3	11	<0.5	9.2	<0.5	48	0.05	0.030
3200663	Drill Core	5.74	17.7	259.6	152.4	16	0.7	71.7	10.1	121	3.37	35	3.1	5.4	8	<0.5	7.5	<0.5	32	<0.01	0.013
3200664	Drill Core	6.65	10.0	103.3	99.4	13	<0.5	56.8	8.5	99	2.86	22	2.3	4.6	14	<0.5	5.6	<0.5	33	0.06	0.046
3200665	Drill Core	6.86	22.6	283.0	149.7	42	0.8	88.4	10.7	483	3.39	39	4.0	5.2	29	0.6	10.3	<0.5	55	0.18	0.078
3200666	Drill Core	6.24	16.0	46.6	89.7	52	0.6	69.4	9.3	298	2.74	30	2.5	4.7	29	<0.5	7.4	<0.5	48	0.20	0.092
3200667	Drill Core	4.67	4.8	27.0	68.8	99	<0.5	63.4	7.6	334	4.70	20	1.2	2.9	16	<0.5	3.4	<0.5	28	0.11	0.042
3200668	Drill Core	5.52	15.1	39.9	72.5	96	<0.5	66.8	7.8	618	3.04	28	1.7	4.6	24	<0.5	6.5	<0.5	50	0.20	0.088
3200669	Drill Core	4.73	8.6	33.7	64.7	72	<0.5	62.0	7.7	292	3.68	24	1.4	4.1	26	<0.5	5.5	<0.5	43	0.15	0.072
3200670	Drill Core	5.11	21.4	53.8	93.2	160	0.6	82.9	8.3	291	2.89	36	2.4	4.6	27	0.6	9.2	<0.5	71	0.22	0.099
3200671	Drill Core	4.94	14.4	48.8	83.7	280	<0.5	62.8	6.9	1092	5.45	23	2.1	3.4	23	1.1	6.9	<0.5	86	0.21	0.074
3200672	Drill Core	6.02	18.7	67.0	130.9	230	0.5	76.8	8.8	1484	4.80	43	2.3	4.5	66	0.7	10.8	<0.5	63	0.58	0.097
3200673	Drill Core	4.78	20.7	42.3	114.0	91	<0.5	70.0	6.8	399	2.94	33	2.4	4.1	59	<0.5	10.4	<0.5	87	0.81	0.088
3200674	Drill Core	4.85	19.5	80.8	1777.9	10792	1.0	71.3	9.9	283	4.15	38	2.7	3.8	33	40.0	15.7	<0.5	121	0.34	0.092
3200675	Drill Core	4.85	17.5	81.6	3253.1	6677	1.2	75.6	7.3	146	4.02	50	3.2	4.4	49	25.6	18.3	<0.5	102	0.34	0.173
3200676	Drill Core	4.61	4.4	41.0	527.6	511	<0.5	54.0	9.5	373	3.05	44	1.5	3.8	15	2.2	6.9	<0.5	44	0.13	0.064
3200677	Drill Core	3.57	19.0	75.3	6667.9	28035	1.4	71.3	4.9	212	4.04	49	3.1	3.2	37	77.8	15.3	<0.5	109	0.19	0.117
3200678	Drill Core	3.18	18.4	68.7	12735.5	53097	2.2	52.3	4.3	171	2.69	40	2.8	3.0	39	137.9	14.9	<0.5	129	0.17	0.073
3200679	Drill Core	2.04	15.9	67.9	15922.3	32934	2.9	58.4	4.2	365	2.99	38	3.1	3.0	56	73.3	15.9	<0.5	152	0.24	0.100
3200680	Rock	1.12	1.1	49.5	7.7	50	<0.5	4.3	9.4	483	3.02	<5	1.0	2.6	116	<0.5	<0.5	<0.5	100	1.28	0.055
3200681	Drill Core	1.48	18.9	65.6	12096.5	50786	2.1	65.1	5.4	317	3.06	46	3.3	2.9	49	113.8	17.3	<0.5	125	0.20	0.089
3200682	Drill Core	1.27	18.9	62.7	14585.9	52400	2.3	62.6	5.8	388	3.17	45	3.4	3.3	52	117.1	17.3	<0.5	137	0.21	0.095
3200683	Drill Core	4.40	17.0	58.9	7474.3	32979	1.7	68.1	5.3	329	3.17	53	4.0	3.5	45	78.6	15.6	<0.5	139	0.21	0.102
3200684	Drill Core	3.15	16.4	65.2	7626.2	35705	2.2	52.8	4.1	177	3.10	49	2.9	2.8	47	88.0	15.8	<0.5	110	0.16	0.074
3200685	Drill Core	3.25	11.7	44.6	1966.8	8199	0.9	62.4	4.6	514	3.00	55	2.4	2.5	59	17.3	12.1	<0.5	102	0.35	0.161
3200686	Drill Core	2.77	14.5	59.0	8602.6	29779	1.9	103.2	5.3	523	3.38	77	3.2	2.8	82	57.4	15.2	<0.5	175	0.24	0.171
3200687	Drill Core	4.28	15.2	55.6	10046.6	60329	2.2	44.9	3.7	337	2.01	34	2.9	3.0	45	74.4	12.8	<0.5	117	0.16	0.067
3200688	Drill Core	3.91	16.7	67.4	5310.3	58765	1.8	46.0	4.2	225	1.99	31	2.6	2.8	98	58.4	11.6	<0.5	117	0.19	0.085
3200689	Drill Core	3.22	17.7	60.6	330.7	44976	1.0	52.0	4.3	159	2.04	37	2.8	3.2	132	43.1	11.1	<0.5	105	0.26	0.117



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200660	Rock Pulp	21.8	13.1	2.75	246	0.016	0.98	0.01	0.66	0.5	0.76	2.8	45.1	7.93	<5	<2	38.02	7.64	11.05	6.92	4.89
3200661	Drill Core	8.2	14.5	0.02	1030	0.003	0.43	<0.01	0.19	<0.5	0.16	3.3	1.3	3.57	<5	4	72.03	8.37	7.00	0.13	0.38
3200662	Drill Core	8.2	15.0	0.02	1124	0.004	0.44	<0.01	0.19	<0.5	0.13	2.9	1.4	3.68	<5	6	71.77	8.24	6.93	0.08	0.34
3200663	Drill Core	8.2	12.8	0.02	908	0.003	0.42	<0.01	0.17	<0.5	0.11	3.3	0.8	3.68	<5	3	74.36	8.62	5.19	0.02	0.37
3200664	Drill Core	8.1	10.2	0.02	1265	0.004	0.49	<0.01	0.18	<0.5	0.07	1.8	0.6	3.08	<5	4	76.68	7.82	4.37	0.10	0.31
3200665	Drill Core	8.9	13.4	0.03	1297	0.005	0.55	<0.01	0.21	<0.5	0.18	2.3	1.0	3.04	<5	4	70.56	9.46	5.19	0.28	0.40
3200666	Drill Core	10.0	11.4	0.02	1065	0.004	0.74	<0.01	0.20	<0.5	0.17	1.5	0.7	2.43	<5	3	72.86	9.17	4.29	0.29	0.36
3200667	Drill Core	6.6	8.0	0.01	517	0.003	0.77	<0.01	0.14	<0.5	0.09	1.3	<0.5	4.50	<5	4	76.07	6.08	7.05	0.17	0.22
3200668	Drill Core	9.3	11.9	0.02	1162	0.005	0.94	<0.01	0.18	<0.5	0.14	2.0	0.9	2.21	<5	3	73.81	8.45	4.64	0.29	0.32
3200669	Drill Core	9.0	11.0	0.02	814	0.004	0.97	<0.01	0.16	<0.5	0.08	1.5	0.5	3.36	<5	3	74.01	7.69	5.69	0.22	0.28
3200670	Drill Core	12.6	14.6	0.02	1831	0.008	1.34	<0.01	0.20	<0.5	0.08	2.1	0.8	1.88	<5	4	70.08	9.81	4.57	0.33	0.36
3200671	Drill Core	8.4	16.3	0.03	510	0.004	0.99	<0.01	0.16	<0.5	0.09	2.5	0.6	3.35	<5	3	69.12	7.48	8.32	0.30	0.27
3200672	Drill Core	10.1	13.7	0.20	698	0.004	1.04	<0.01	0.15	<0.5	0.20	3.1	1.2	2.85	<5	3	66.48	8.65	7.39	0.85	0.59
3200673	Drill Core	12.5	17.1	0.30	3274	0.004	2.03	<0.01	0.17	<0.5	0.16	3.1	0.9	1.19	<5	4	68.38	8.80	4.59	1.22	0.74
3200674	Drill Core	10.1	22.2	0.08	583	0.005	1.57	<0.01	0.19	<0.5	1.75	3.2	4.3	3.97	<5	8	69.08	7.64	6.44	0.50	0.33
3200675	Drill Core	9.4	19.2	0.02	500	0.004	1.14	<0.01	0.14	<0.5	1.35	1.3	4.2	4.31	<5	8	69.54	7.69	6.06	0.50	0.21
3200676	Drill Core	11.5	11.9	0.01	1847	0.004	2.53	<0.01	0.11	<0.5	0.22	2.0	1.0	1.47	<5	3	73.03	7.81	4.72	0.22	0.14
3200677	Drill Core	7.8	22.5	0.01	383	0.003	2.08	<0.01	0.13	<0.5	5.71	3.2	4.2	4.62	<5	8	65.68	7.00	5.99	0.27	0.14
3200678	Drill Core	6.5	22.0	0.01	486	0.005	1.55	<0.01	0.11	<0.5	11.08	1.9	3.1	4.25	<5	9	69.65	4.85	4.00	0.25	0.10
3200679	Drill Core	11.6	25.3	0.02	745	0.004	2.16	<0.01	0.13	<0.5	7.54	2.6	3.3	3.09	<5	11	68.54	5.91	4.44	0.36	0.12
3200680	Rock	7.1	5.5	0.85	181	0.195	2.21	0.31	0.30	<0.5	<0.05	3.9	<0.5	<0.05	6	<2	60.43	16.88	6.39	6.38	2.84
3200681	Drill Core	7.5	21.6	0.01	471	0.003	1.92	<0.01	0.11	<0.5	12.10	2.3	3.9	4.22	<5	9	66.56	6.12	4.49	0.30	0.11
3200682	Drill Core	8.0	23.7	0.02	548	0.004	1.94	<0.01	0.11	<0.5	11.96	2.4	3.4	4.34	<5	11	66.79	6.10	4.74	0.31	0.12
3200683	Drill Core	11.1	27.5	0.01	703	0.004	2.19	<0.01	0.12	<0.5	8.48	2.5	2.8	3.22	<5	6	68.76	6.10	4.68	0.32	0.11
3200684	Drill Core	9.2	21.8	0.01	788	0.003	1.92	<0.01	0.12	<0.5	9.46	1.7	2.7	3.60	<5	6	70.21	5.46	4.57	0.24	0.10
3200685	Drill Core	9.3	20.0	<0.01	1403	0.003	1.95	<0.01	0.08	<0.5	2.40	3.7	2.2	1.74	<5	4	72.34	5.84	4.50	0.51	0.09
3200686	Drill Core	7.0	26.7	0.01	317	0.004	0.97	<0.01	0.06	<0.5	8.84	17.3	2.4	4.27	<5	9	68.00	6.35	5.09	0.35	0.09
3200687	Drill Core	8.4	23.4	0.01	736	0.004	1.60	<0.01	0.08	<0.5	14.81	2.5	1.6	3.56	<5	6	69.66	5.39	3.06	0.24	0.06
3200688	Drill Core	9.0	21.2	0.02	981	0.003	2.27	<0.01	0.13	<0.5	13.55	2.2	2.8	3.16	<5	7	68.00	5.92	3.04	0.28	0.11
3200689	Drill Core	9.3	22.1	0.02	1133	0.003	2.30	<0.01	0.14	<0.5	10.40	2.0	2.7	2.69	<5	5	68.35	6.72	3.13	0.38	0.14



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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05
3200660	Rock Pulp	3.59	0.31	0.25	0.11	<0.01	0.09	0.04	3.55	4.98	16.23	99.35	<0.01	3.20	7.66	0.50	<0.02	9.90	3.85	11.43
3200661	Drill Core	1.93	0.11	0.44	0.07	0.39	1.06	0.04	0.02	<0.01	7.54	99.69	0.05	3.26	3.72	2.94	0.13	0.67	3.63	0.27
3200662	Drill Core	1.93	0.10	0.42	0.06	<0.01	1.06	0.02	0.03	<0.01	7.57	98.70	0.05	3.18	3.74	2.83	0.16	0.71	3.64	0.31
3200663	Drill Core	1.96	0.04	0.45	0.04	0.02	1.08	0.02	0.02	<0.01	6.90	99.25	0.06	3.08	3.46	2.23	0.84	<0.08	3.40	0.19
3200664	Drill Core	1.77	0.03	0.42	0.13	<0.01	1.00	<0.01	<0.01	<0.01	5.25	98.01	0.06	2.09	2.98	1.43	0.65	<0.08	2.92	0.18
3200665	Drill Core	2.11	0.08	0.48	0.23	0.01	1.42	0.02	<0.01	<0.01	8.12	98.54	0.10	4.50	3.07	3.43	0.95	0.44	2.95	0.35
3200666	Drill Core	1.97	0.06	0.48	0.25	<0.01	1.85	<0.01	<0.01	<0.01	6.33	98.14	0.09	2.97	2.51	2.12	0.78	0.23	2.35	0.49
3200667	Drill Core	1.16	0.07	0.32	0.14	<0.01	1.82	<0.01	<0.01	<0.01	5.57	98.88	0.04	1.35	4.84	0.94	0.34	0.24	4.63	0.62
3200668	Drill Core	1.74	0.09	0.45	0.23	0.01	2.30	<0.01	<0.01	<0.01	6.13	98.75	0.08	2.82	2.49	1.95	0.75	0.46	2.28	0.65
3200669	Drill Core	1.47	0.06	0.41	0.20	<0.01	2.78	<0.01	<0.01	<0.01	6.12	99.25	0.07	2.12	3.73	1.28	0.78	0.22	3.45	0.86
3200670	Drill Core	1.88	0.05	0.51	0.26	<0.01	3.34	<0.01	<0.01	0.01	6.82	98.42	0.11	3.34	2.45	2.00	1.28	0.24	2.24	0.64
3200671	Drill Core	1.38	0.16	0.38	0.22	<0.01	2.45	<0.01	<0.01	0.03	8.15	98.56	0.10	3.28	3.86	1.92	0.94	1.55	3.59	0.81
3200672	Drill Core	1.42	0.20	0.47	0.25	<0.01	2.91	<0.01	<0.01	0.02	8.90	98.48	0.10	3.60	3.37	2.06	1.00	2.00	2.83	1.63
3200673	Drill Core	1.35	0.07	0.46	0.23	0.01	4.91	<0.01	<0.01	<0.01	7.31	98.66	0.11	3.64	2.17	2.42	0.99	0.82	1.80	1.11
3200674	Drill Core	1.18	0.05	0.41	0.25	0.01	3.60	<0.01	0.18	1.09	8.10	99.57	0.13	3.51	4.90	2.22	1.21	0.30	4.27	1.88
3200675	Drill Core	1.07	0.04	0.37	0.41	0.01	2.56	<0.01	0.31	0.66	8.69	98.62	0.14	3.54	4.69	1.96	1.54	0.13	4.17	1.55
3200676	Drill Core	0.73	0.07	0.45	0.17	<0.01	6.11	<0.01	0.04	0.05	4.77	99.03	0.06	1.22	2.69	0.67	0.46	0.33	2.51	0.53
3200677	Drill Core	0.77	0.05	0.34	0.28	<0.01	4.66	<0.01	0.67	2.75	8.58	98.45	0.13	3.07	5.57	1.74	1.27	0.21	3.98	4.78
3200678	Drill Core	0.57	0.04	0.34	0.20	0.02	3.63	<0.01	1.27	5.20	7.31	99.23	0.13	3.59	5.18	2.14	1.39	0.22	3.28	5.71
3200679	Drill Core	0.60	0.06	0.36	0.26	0.01	4.99	<0.01	1.58	3.23	6.58	98.54	0.14	3.17	4.25	1.90	1.18	0.35	2.77	4.43
3200680	Rock	1.50	0.14	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.93	99.64	0.03	0.04	<0.02	0.02	<0.02	<0.08	<0.05	0.17
3200681	Drill Core	0.56	0.06	0.35	0.23	<0.01	4.43	<0.01	1.21	5.01	7.80	99.06	0.14	3.56	5.21	2.06	1.40	0.37	2.89	6.95
3200682	Drill Core	0.57	0.07	0.37	0.24	<0.01	4.45	<0.01	1.42	5.23	7.94	100.26	0.14	3.61	5.35	2.22	1.28	0.40	2.99	7.07
3200683	Drill Core	0.56	0.06	0.36	0.24	0.01	5.07	<0.01	0.74	3.25	7.26	98.97	0.13	3.45	4.34	2.05	1.31	0.33	2.82	4.56
3200684	Drill Core	0.53	0.04	0.33	0.20	0.01	4.75	<0.01	0.75	3.53	6.87	99.07	0.12	3.23	4.62	2.05	1.13	0.19	3.12	4.50
3200685	Drill Core	0.47	0.08	0.30	0.42	<0.01	4.70	<0.01	0.20	0.81	7.58	98.59	0.11	4.48	2.79	2.21	2.15	0.41	2.29	1.50
3200686	Drill Core	0.46	0.08	0.32	0.37	0.01	2.33	<0.01	0.84	2.99	10.70	99.05	0.14	5.03	4.78	2.32	2.59	0.46	2.87	5.71
3200687	Drill Core	0.35	0.06	0.29	0.20	0.01	3.96	<0.01	1.00	6.02	7.21	99.52	0.09	3.38	4.51	1.55	1.75	0.31	1.90	7.83
3200688	Drill Core	0.54	0.05	0.35	0.21	0.01	5.47	<0.01	0.55	5.90	7.09	99.63	0.12	4.01	4.46	2.18	1.77	0.21	2.71	5.27
3200689	Drill Core	0.76	0.05	0.38	0.30	0.01	5.46	0.02	0.03	4.43	7.14	99.03	0.13	4.09	3.80	2.18	1.87	0.15	2.54	3.80



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Project: MacMillan Pass

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CERTIFICATE OF ANALYSIS

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	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200690	Drill Core	3.02	16.7	75.9	527.2	27640	1.4	70.0	6.3	203	3.25	41	2.8	3.0	92	31.8	12.1	<0.5	85	0.24	0.104
3200691	Drill Core	6.74	16.9	68.1	372.3	7813	1.6	63.6	5.8	128	3.31	44	2.9	3.3	91	11.0	13.8	<0.5	85	0.26	0.122
3200692	Drill Core	5.78	17.4	48.7	170.2	661	0.8	61.9	4.7	132	2.51	35	2.7	3.2	81	0.9	10.3	<0.5	90	0.26	0.120
3200693	Drill Core	6.08	17.7	39.8	98.6	166	0.7	61.7	4.2	182	2.26	34	2.7	3.1	93	<0.5	8.8	<0.5	81	0.24	0.116
3200694	Drill Core	6.04	20.3	65.8	114.9	122	1.0	78.8	5.8	450	2.62	35	3.4	4.2	69	1.1	10.7	<0.5	91	0.27	0.130
3200695	Drill Core	7.34	15.6	69.5	89.6	141	1.2	84.9	7.9	732	4.51	30	2.4	4.2	36	1.4	10.2	<0.5	59	0.12	0.083
3200696	Drill Core	6.52	9.0	73.3	66.8	48	1.1	75.3	10.4	350	2.72	23	2.0	6.0	58	2.5	8.2	<0.5	48	0.10	0.093
3200697	Drill Core	6.01	7.0	104.3	54.1	33	0.7	52.4	9.7	103	2.25	19	2.1	6.3	40	4.4	6.4	<0.5	42	0.10	0.073



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Project: MacMillan Pass

Report Date: August 13, 2019

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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	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200690	Drill Core	8.1	16.0	0.01	677	0.003	1.96	<0.01	0.13	<0.5	5.20	2.1	7.6	3.54	<5	8	68.96	6.55	4.84	0.35	0.17
3200691	Drill Core	8.5	17.0	0.01	606	0.004	1.61	<0.01	0.12	<0.5	2.05	1.7	7.3	3.15	<5	8	70.03	7.65	5.06	0.39	0.20
3200692	Drill Core	9.5	18.3	0.02	1359	0.004	1.74	<0.01	0.13	<0.5	0.42	2.1	1.6	1.74	<5	7	72.94	7.69	3.91	0.40	0.20
3200693	Drill Core	9.2	15.2	0.01	1433	0.004	1.14	<0.01	0.13	<0.5	0.24	1.5	1.1	1.64	<5	6	74.15	7.26	3.51	0.35	0.22
3200694	Drill Core	9.9	18.3	0.02	1296	0.004	0.69	<0.01	0.16	<0.5	0.25	1.2	1.2	2.41	<5	8	74.29	8.28	4.12	0.40	0.29
3200695	Drill Core	9.6	11.6	0.02	846	0.004	0.82	<0.01	0.15	<0.5	0.18	1.6	1.0	3.83	<5	6	69.67	8.65	6.86	0.18	0.31
3200696	Drill Core	14.0	12.5	0.02	1512	0.005	0.71	<0.01	0.21	<0.5	0.30	1.7	0.8	2.64	<5	3	73.46	10.42	4.40	0.16	0.39
3200697	Drill Core	16.3	12.3	0.02	1490	0.005	0.69	<0.01	0.24	<0.5	0.17	2.6	0.7	2.43	<5	4	72.84	11.19	3.66	0.15	0.43



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Project: MacMillan Pass

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CERTIFICATE OF ANALYSIS

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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200690	Drill Core	0.84	0.04	0.35	0.28	0.01	4.58	<0.01	0.05	2.72	7.56	98.51	0.12	3.78	4.59	2.09	1.65	0.16	3.70	2.66
3200691	Drill Core	1.05	0.03	0.38	0.32	0.01	4.11	<0.01	0.02	0.78	8.05	98.76	0.13	4.00	3.92	2.10	1.88	0.11	3.45	1.40
3200692	Drill Core	1.18	0.04	0.39	0.31	0.01	4.04	<0.01	<0.01	0.06	6.99	98.64	0.14	4.14	2.51	2.10	2.02	0.09	2.43	0.22
3200693	Drill Core	1.15	0.04	0.37	0.32	0.01	3.17	0.02	<0.01	0.01	7.24	98.22	0.14	4.30	2.25	1.96	2.28	0.20	1.97	0.83
3200694	Drill Core	1.44	0.08	0.43	0.34	0.01	1.17	<0.01	<0.01	<0.01	7.70	98.69	0.15	4.15	2.44	2.54	1.54	0.25	2.33	0.32
3200695	Drill Core	1.60	0.11	0.44	0.25	<0.01	2.07	<0.01	<0.01	<0.01	7.92	98.33	0.12	3.04	3.90	1.93	0.92	0.71	3.72	0.56
3200696	Drill Core	2.16	0.06	0.55	0.26	<0.01	1.49	<0.01	<0.01	<0.01	5.85	99.40	0.08	1.88	2.40	1.33	0.48	0.26	2.30	0.30
3200697	Drill Core	2.48	0.03	0.64	0.21	<0.01	1.47	<0.01	<0.01	<0.01	5.19	98.50	0.08	1.65	2.35	1.13	0.49	0.08	2.29	0.18



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QUALITY CONTROL REPORT

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	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200633	Drill Core	4.51	15.6	412.5	153.3	35	0.7	70.1	17.3	79	4.53	48	4.6	8.7	36	<0.5	9.7	<0.5	31	<0.01	0.027
3200667	Drill Core	4.67	4.8	27.0	68.8	99	<0.5	63.4	7.6	334	4.70	20	1.2	2.9	16	<0.5	3.4	<0.5	28	0.11	0.042
Pulp Duplicates																					
3200630	Drill Core	4.64	23.2	37.8	106.7	74	0.8	12.3	0.7	28	3.51	13	2.5	5.0	15	<0.5	7.6	<0.5	33	<0.01	0.012
REP 3200630	QC																				
3200636	Drill Core	3.88	28.2	303.3	84.3	104	0.7	109.3	13.6	47	2.51	68	2.6	5.8	34	<0.5	13.1	<0.5	38	<0.01	0.026
REP 3200636	QC																				
3200646	Drill Core	4.87	24.1	151.3	76.9	23	0.6	76.8	8.3	48	2.22	38	3.6	5.8	30	<0.5	16.7	<0.5	63	<0.01	0.025
REP 3200646	QC																				
3200656	Drill Core	5.18	23.8	195.4	110.1	15	0.8	83.8	8.8	60	2.41	38	3.2	6.3	31	<0.5	13.1	<0.5	67	0.06	0.057
REP 3200656	QC		23.0	198.5	110.7	11	0.9	81.1	8.8	61	2.41	41	3.4	6.4	33	<0.5	13.3	<0.5	70	0.06	0.058
3200658	Drill Core	6.43	27.1	419.8	247.9	14	1.4	110.5	13.2	80	3.35	50	3.2	6.1	38	<0.5	13.1	<0.5	41	<0.01	0.026
REP 3200658	QC																				
3200659	Drill Core	6.58	26.4	489.6	237.2	27	1.4	105.0	13.2	304	4.27	56	3.5	5.6	13	<0.5	11.3	<0.5	40	0.02	0.016
REP 3200659	QC																				
3200664	Drill Core	6.65	10.0	103.3	99.4	13	<0.5	56.8	8.5	99	2.86	22	2.3	4.6	14	<0.5	5.6	<0.5	33	0.06	0.046
REP 3200664	QC																				
3200670	Drill Core	5.11	21.4	53.8	93.2	160	0.6	82.9	8.3	291	2.89	36	2.4	4.6	27	0.6	9.2	<0.5	71	0.22	0.099
REP 3200670	QC																				
3200680	Rock	1.12	1.1	49.5	7.7	50	<0.5	4.3	9.4	483	3.02	<5	1.0	2.6	116	<0.5	<0.5	<0.5	100	1.28	0.055
REP 3200680	QC																				
3200690	Drill Core	3.02	16.7	75.9	527.2	27640	1.4	70.0	6.3	203	3.25	41	2.8	3.0	92	31.8	12.1	<0.5	85	0.24	0.104
REP 3200690	QC		18.3	72.2	539.1	27575	1.4	67.3	6.8	201	3.23	44	2.8	3.0	94	30.6	12.4	<0.5	87	0.24	0.110
3200692	Drill Core	5.78	17.4	48.7	170.2	661	0.8	61.9	4.7	132	2.51	35	2.7	3.2	81	0.9	10.3	<0.5	90	0.26	0.120
REP 3200692	QC																				
3200694	Drill Core	6.04	20.3	65.8	114.9	122	1.0	78.8	5.8	450	2.62	35	3.4	4.2	69	1.1	10.7	<0.5	91	0.27	0.130
REP 3200694	QC																				
Core Reject Duplicates																					
3200631	Drill Core	5.48	26.0	38.7	82.5	21	0.6	27.1	3.2	31	2.54	17	2.5	5.2	17	<0.5	6.3	<0.5	29	<0.01	0.016



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200633	Drill Core	9.2	9.4	0.01	788	0.004	0.41	<0.01	0.18	0.8	0.40	4.3	0.7	4.91	<5	6	69.09	8.68	6.64	0.01	0.40
3200667	Drill Core	6.6	8.0	0.01	517	0.003	0.77	<0.01	0.14	<0.5	0.09	1.3	<0.5	4.50	<5	4	76.07	6.08	7.05	0.17	0.22
Pulp Duplicates																					
3200630	Drill Core	9.0	8.1	0.02	1157	0.004	0.43	<0.01	0.20	<0.5	0.38	1.1	<0.5	3.29	<5	8	73.65	8.89	5.06	0.01	0.38
REP 3200630	QC																73.51	8.84	5.05	0.01	0.40
3200636	Drill Core	9.0	10.5	0.02	1149	0.003	0.44	<0.01	0.20	0.5	0.11	4.1	0.9	2.53	<5	6	75.53	8.69	3.73	0.02	0.43
REP 3200636	QC																75.94	8.68	3.75	0.02	0.43
3200646	Drill Core	11.1	12.2	0.02	1016	0.003	0.46	<0.01	0.22	<0.5	0.09	2.3	0.6	2.25	<5	6	75.59	9.37	3.31	0.02	0.39
REP 3200646	QC																				
3200656	Drill Core	9.4	13.9	0.02	1164	0.004	0.49	<0.01	0.23	<0.5	0.12	2.7	0.7	2.44	<5	6	74.87	9.60	3.66	0.10	0.41
REP 3200656	QC	10.0	13.6	0.02	1194	0.004	0.49	<0.01	0.25	<0.5	0.06	2.3	0.8	2.44	<5	6					
3200658	Drill Core	9.3	15.1	0.01	1266	0.004	0.47	<0.01	0.21	<0.5	0.17	3.3	1.2	3.37	<5	5	74.01	8.78	4.88	0.02	0.38
REP 3200658	QC																				
3200659	Drill Core	7.3	13.7	0.02	935	0.003	0.39	<0.01	0.17	<0.5	0.17	2.6	1.3	3.99	<5	5	72.82	8.44	6.47	0.03	0.37
REP 3200659	QC																				
3200664	Drill Core	8.1	10.2	0.02	1265	0.004	0.49	<0.01	0.18	<0.5	0.07	1.8	0.6	3.08	<5	4	76.68	7.82	4.37	0.10	0.31
REP 3200664	QC																77.49	7.87	4.42	0.09	0.32
3200670	Drill Core	12.6	14.6	0.02	1831	0.008	1.34	<0.01	0.20	<0.5	0.08	2.1	0.8	1.88	<5	4	70.08	9.81	4.57	0.33	0.36
REP 3200670	QC																70.52	9.89	4.59	0.34	0.37
3200680	Rock	7.1	5.5	0.85	181	0.195	2.21	0.31	0.30	<0.5	<0.05	3.9	<0.5	<0.05	6	<2	60.43	16.88	6.39	6.38	2.84
REP 3200680	QC																				
3200690	Drill Core	8.1	16.0	0.01	677	0.003	1.96	<0.01	0.13	<0.5	5.20	2.1	7.6	3.54	<5	8	68.96	6.55	4.84	0.35	0.17
REP 3200690	QC	8.1	17.8	0.02	754	0.004	1.96	<0.01	0.14	<0.5	5.29	2.5	8.0	3.53	<5	10					
3200692	Drill Core	9.5	18.3	0.02	1359	0.004	1.74	<0.01	0.13	<0.5	0.42	2.1	1.6	1.74	<5	7	72.94	7.69	3.91	0.40	0.20
REP 3200692	QC																				
3200694	Drill Core	9.9	18.3	0.02	1296	0.004	0.69	<0.01	0.16	<0.5	0.25	1.2	1.2	2.41	<5	8	74.29	8.28	4.12	0.40	0.29
REP 3200694	QC																				
Core Reject Duplicates																					
3200631	Drill Core	8.7	7.8	0.01	1006	0.004	0.37	<0.01	0.18	<0.5	0.29	1.4	<0.5	2.31	<5	6	75.85	8.51	3.73	0.01	0.39



Bureau Veritas Commodities Canada Ltd.

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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	TC000	TC000	TC005	TC005	TC006	TC008	TC008			
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4			
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%			
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05		
3200633	Drill Core	2.08	0.03	0.45	0.08	<0.01	0.73	0.03	0.02	<0.01	10.84	99.21	0.03	5.65	4.99	5.35	0.30	<0.08	4.92	0.24			
3200667	Drill Core	1.16	0.07	0.32	0.14	<0.01	1.82	<0.01	<0.01	<0.01	5.57	98.88	0.04	1.35	4.84	0.94	0.34	0.24	4.63	0.62			
Pulp Duplicates																							
3200630	Drill Core	2.11	0.02	0.45	0.03	<0.01	0.76	<0.01	0.01	<0.01	8.10	99.59	0.04	3.97	3.38	3.66	0.31	<0.08	3.30	0.23			
REP 3200630	QC	2.07	0.03	0.47	0.03	<0.01	0.75	<0.01	0.02	<0.01	8.10	99.41	0.05										
3200636	Drill Core	2.12	0.03	0.44	0.09	0.01	0.70	0.02	<0.01	<0.01	7.48	99.42	0.05	4.05	2.71	3.58	0.47	<0.08	2.65	0.17			
REP 3200636	QC	2.12	0.03	0.44	0.09	<0.01	0.69	0.02	0.02	<0.01	7.48	99.83	0.06										
3200646	Drill Core	2.34	0.03	0.48	0.06	0.01	0.77	<0.01	<0.01	<0.01	6.60	99.09	0.13	3.44	2.26	3.05	0.39	<0.08	2.22	0.11			
REP 3200646	QC																0.35						
3200656	Drill Core	2.38	0.04	0.50	0.13	0.02	1.01	0.03	0.02	<0.01	6.48	99.39	0.12	3.25	2.57	2.80	0.44	<0.08	2.53	0.13			
REP 3200656	QC																						
3200658	Drill Core	2.08	0.03	0.43	0.05	<0.01	1.06	0.03	0.03	<0.01	7.52	99.47	0.04	3.73	3.48	3.40	0.33	<0.08	3.42	0.16			
REP 3200658	QC																					0.17	
3200659	Drill Core	2.00	0.06	0.41	0.05	<0.01	1.08	0.04	0.03	<0.01	8.04	100.01	0.04	3.69	3.99	3.48	0.13	0.28	3.91	0.23			
REP 3200659	QC													3.71		4.08		0.27					
3200664	Drill Core	1.77	0.03	0.42	0.13	<0.01	1.00	<0.01	<0.01	<0.01	5.25	98.01	0.06	2.09	2.98	1.43	0.65	<0.08	2.92	0.18			
REP 3200664	QC	1.76	0.03	0.42	0.12	<0.01	0.99	<0.01	<0.01	<0.01	5.25	98.90	0.06										
3200670	Drill Core	1.88	0.05	0.51	0.26	<0.01	3.34	<0.01	<0.01	0.01	6.82	98.42	0.11	3.34	2.45	2.00	1.28	0.24	2.24	0.64			
REP 3200670	QC	1.87	0.05	0.51	0.27	0.01	3.36	0.03	<0.01	0.01	6.82	99.04	0.11										
3200680	Rock	1.50	0.14	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.93	99.64	0.03	0.04	<0.02	0.02	<0.02	<0.08	<0.05	0.17			
REP 3200680	QC																0.02						
3200690	Drill Core	0.84	0.04	0.35	0.28	0.01	4.58	<0.01	0.05	2.72	7.56	98.51	0.12	3.78	4.59	2.09	1.65	0.16	3.70	2.66			
REP 3200690	QC																						
3200692	Drill Core	1.18	0.04	0.39	0.31	0.01	4.04	<0.01	<0.01	0.06	6.99	98.64	0.14	4.14	2.51	2.10	2.02	0.09	2.43	0.22			
REP 3200692	QC																					0.22	
3200694	Drill Core	1.44	0.08	0.43	0.34	0.01	1.17	<0.01	<0.01	<0.01	7.70	98.69	0.15	4.15	2.44	2.54	1.54	0.25	2.33	0.32			
REP 3200694	QC													4.08		2.42		0.26					
Core Reject Duplicates																							
3200631	Drill Core	2.04	0.02	0.43	0.04	<0.01	0.71	<0.01	0.02	<0.01	7.68	99.53	0.04	4.24	2.40	3.74	0.50	<0.08	2.35	0.17			



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MacMillan Pass

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QUALITY CONTROL REPORT

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
DUP 3200631	QC		27.7	38.7	86.2	23	0.6	26.4	2.9	37	2.61	17	2.5	5.2	18	<0.5	6.1	<0.5	30	<0.01	0.016
3200665	Drill Core	6.86	22.6	283.0	149.7	42	0.8	88.4	10.7	483	3.39	39	4.0	5.2	29	0.6	10.3	<0.5	55	0.18	0.078
DUP 3200665	QC		22.5	285.9	153.1	44	0.9	85.3	9.7	468	3.37	39	4.2	5.0	30	0.5	10.2	<0.5	56	0.18	0.081
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.4	306.2	17756.7	28716	55.4	37.6	30.8	4060	8.95	925	9.3	10.9	27	64.0	39.2	5.2	31	1.85	0.083
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.8	49812.1	863.9	2178	993.7	1553.6	94.6	88	3.65	1658	0.9	2.5	50	13.1	297.9	19.9	<10	0.18	0.006
STD OREAS605	Standard		4.6	48886.3	847.1	2098	989.4	1539.7	95.4	86	3.66	1707	1.0	2.6	50	13.5	303.5	20.4	16	0.18	0.011
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.1	10784.2	229.1	723	4.5	30.2	28.8	1146	8.10	13	1.8	13.1	14	0.9	1.2	73.2	29	0.29	0.059
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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		AQ270 La ppm	AQ270 Cr ppm	AQ270 Mg %	AQ270 Ba ppm	AQ270 Ti %	AQ270 Al %	AQ270 Na %	AQ270 K %	AQ270 W ppm	AQ270 Hg ppm	AQ270 Sc ppm	AQ270 Ti ppm	AQ270 S %	AQ270 Ga ppm	AQ270 Se ppm	LF725 SiO2 %	LF725 Al2O3 %	LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
DUP 3200631	QC	9.2	7.4	0.02	1084	0.004	0.39	<0.01	0.19	<0.5	0.31	1.5	0.6	2.33	<5	6	75.54	8.47	3.83	0.01	0.39
3200665	Drill Core	8.9	13.4	0.03	1297	0.005	0.55	<0.01	0.21	<0.5	0.18	2.3	1.0	3.04	<5	4	70.56	9.46	5.19	0.28	0.40
DUP 3200665	QC	9.6	13.2	0.02	1167	0.005	0.56	<0.01	0.21	<0.5	0.12	2.4	1.0	3.01	<5	4	70.57	9.42	5.17	0.27	0.39
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	37.8	22.2	0.81	332	0.026	1.09	0.02	0.49	3.3	1.19	3.6	6.2	7.19	<5	<2					
STD OREAS133B(D)	Standard																34.83	7.19	11.60	5.28	3.87
STD OREAS133B(D)	Standard																34.66	7.17	11.63	5.28	3.86
STD OREAS133B(D)	Standard																34.47	7.16	11.44	5.28	3.87
STD OREAS605	Standard	7.3	31.0	0.03	226	0.011	0.74	0.03	0.14	7.6	2.08	1.4	16.1	7.93	7	77					
STD OREAS605	Standard	7.5	27.5	0.03	175	0.010	0.73	0.03	0.14	6.7	1.64	1.2	16.2	7.74	6	73					
STD OREAS72B	Standard																51.35	8.97	10.02	3.97	16.07
STD OREAS72B	Standard																51.08	8.94	10.08	3.98	16.07
STD OREAS72B	Standard																51.05	8.93	9.88	3.95	16.17
STD OREAS927-AR	Standard	27.2	40.1	1.96	48	0.081	3.33	<0.01	0.29	5.3	0.08	4.6	<0.5	1.74	9	15					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	
DUP 3200631	QC	2.02	0.02	0.44	0.04	<0.01	0.70	<0.01	<0.01	<0.01	7.65	99.23	0.04	4.26	2.46	3.81	0.44	<0.08	2.40	0.17	
3200665	Drill Core	2.11	0.08	0.48	0.23	0.01	1.42	0.02	<0.01	<0.01	8.12	98.54	0.10	4.50	3.07	3.43	0.95	0.44	2.95	0.35	
DUP 3200665	QC	2.12	0.08	0.48	0.23	0.01	1.42	0.02	<0.01	<0.01	8.10	98.45	0.10	4.42	3.01	3.46	0.85	0.43	2.89	0.37	
Reference Materials																					
STD COO1	Standard																		2.50		
STD COO1	Standard																		2.25		
STD COO1	Standard																		2.25		
STD COO1	Standard																		2.19		
STD GGC-10	Standard																	4.69			
STD GGC-10	Standard																	4.80			
STD GGC-10	Standard																	5.01			
STD GGC-10	Standard																	4.93			
STD GS311-1	Standard														0.97	2.29					
STD GS311-1	Standard														0.99	2.28					
STD GS910-4	Standard														2.63	8.01					
STD GS910-4	Standard														2.75	8.05					
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.49	0.16	0.22	0.12	<0.01	0.07	0.06	5.07	11.36	13.03	99.77	<0.01								
STD OREAS133B(D)	Standard	3.48	0.17	0.23	0.11	<0.01	0.08	0.05	5.06	11.35	13.03	99.52	<0.01								
STD OREAS133B(D)	Standard	3.47	0.16	0.22	0.13	<0.01	0.07	0.06	5.06	11.50	0.00	86.22	<0.01								
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.32	0.15	0.36	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.94	0.01								
STD OREAS72B	Standard	1.34	0.15	0.34	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.67	0.01								
STD OREAS72B	Standard	1.34	0.15	0.36	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.49	0.02								
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																			3.26	
STD RTS-3A	Standard																			3.46	
STD RTS-3A	Standard																			3.20	



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD RTS-3A Expected																					
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182	0.0105
STD OREAS927-AR Expected			1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3	0.054
STD GGC-10 Expected																					
STD COO1 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
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	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
Prep Wash																					



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.88	20.68	6.19	7.94	0.54
STD SY-4(D)	Standard																49.68	20.71	6.17	7.96	0.52
STD SY-4(D)	Standard																49.91	20.94	6.23	8.03	0.52
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD RTS-3A Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5					
STD GGC-10 Expected																					
STD COO1 Expected																					
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.94	0.30	0.02	0.02	0.02
SI BLK	Blank																99.18	0.32	0.03	0.02	0.02
BLK	Blank																				
SI BLK	Blank																98.91	0.31	0.02	0.02	0.02
Prep Wash																					



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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
STD RTS-3A	Standard																			3.41
STD SY-4(D)	Standard	1.67	0.11	0.29	0.14	<0.01	0.05	<0.01	<0.01	0.01	4.56	99.20	<0.01							
STD SY-4(D)	Standard	1.66	0.11	0.30	0.14	<0.01	0.04	<0.01	0.02	0.01	4.56	99.00	<0.01							
STD SY-4(D)	Standard	1.68	0.11	0.30	0.15	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.86	<0.01							
STD GS311-1 Expected														1.02	2.35					
STD GS910-4 Expected														2.65	8.27					
STD RTS-3A Expected																				3.3
STD OREAS135 Expected																				
STD OREAS605 Expected																				
STD OREAS927-AR Expected																				
STD GGC-10 Expected																	4.79			
STD COO1 Expected																		2.37		
STD SY-4(D) Expected		1.66	0.108	0.287	0.131		0.0345				4.56									
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12									
STD OREAS133B(D) Expected							0.08	0.032	5.06	11.35										
BLK	Blank													<0.02	<0.02					
BLK	Blank													<0.02	<0.02					
BLK	Blank																			<0.05
BLK	Blank																			<0.05
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.00	99.35	<0.01							
SI BLK	Blank	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.61	<0.01							
BLK	Blank																			
SI BLK	Blank	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.33	<0.01							
Prep Wash																				



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
ROCK-WHI	Prep Blank		0.8	2.0	1.3	30	<0.5	0.9	3.4	566	2.07	<5	0.6	3.2	22	<0.5	<0.5	<0.5	32	0.66	0.042
ROCK-WHI	Prep Blank		0.8	2.6	1.2	28	<0.5	0.9	3.2	542	2.01	<5	0.6	2.9	26	<0.5	<0.5	<0.5	32	0.65	0.047



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
ROCK-WHI	Prep Blank	6.8	3.1	0.46	69	0.089	0.93	0.11	0.10	<0.5	<0.05	3.3	<0.5	<0.05	<5	<2	70.52	13.96	3.42	2.31	0.89
ROCK-WHI	Prep Blank	6.5	3.3	0.44	63	0.097	0.91	0.11	0.11	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	70.57	14.03	3.31	2.39	0.87



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
ROCK-WHI	Prep Blank	1.97	0.11	0.35	0.10	<0.01	0.08	<0.01	<0.01	<0.01	1.02	99.41	<0.01	0.08	<0.02	0.02	<0.02	0.21	<0.05	0.15
ROCK-WHI	Prep Blank	1.99	0.11	0.34	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.02	99.42	<0.01	0.08	<0.02	0.03	<0.02	0.18	<0.05	0.11