



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

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

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: July 11, 2019
Report Date: August 15, 2019
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CERTIFICATE OF ANALYSIS

WHI19000194.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-006
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	65	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
CRUBW	65	Extra clean rock wash between samples in crusher			WHI
PULSW	65	Extra Wash with Silica between each sample			WHI
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

V205 from LF725 is Qualitative Data only.

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

CC:



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



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	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
3200562	Rock Pulp	0.04	3.8	484.6	33938.4	49972	55.7	18.9	46.0	2356	7.36	149	1.5	6.7	24	164.9	45.4	0.5	30	4.94	0.054
3200563	Drill Core	7.41	14.2	6.4	51.7	9	<0.5	1.4	<0.5	16	0.52	8	1.3	3.8	27	<0.5	17.2	<0.5	24	<0.01	0.006
3200564	Drill Core	2.43	11.6	6.0	80.7	6	<0.5	1.0	<0.5	14	0.49	8	1.3	6.5	37	<0.5	25.9	<0.5	18	<0.01	0.012
3200565	Drill Core	2.40	13.7	52.9	102.8	24	1.3	18.2	4.7	35	2.51	22	1.4	7.4	34	<0.5	28.7	<0.5	25	<0.01	0.012
3200566	Drill Core	2.23	10.6	123.7	105.2	102	1.0	70.3	21.6	80	5.09	64	1.7	8.4	12	0.5	37.6	<0.5	31	<0.01	0.004
3200567	Drill Core	2.05	11.5	146.9	107.8	107	1.0	77.1	22.2	84	5.10	72	1.8	8.7	15	0.5	39.4	<0.5	35	<0.01	<0.001
3200568	Drill Core	3.42	18.2	253.4	126.8	218	1.2	88.9	21.9	87	5.61	87	2.4	10.3	17	1.3	41.9	<0.5	33	<0.01	0.005
3200569	Drill Core	5.07	34.0	195.7	87.1	151	1.0	132.8	17.2	59	4.22	76	2.7	6.2	28	0.7	31.4	<0.5	39	<0.01	0.011
3200570	Drill Core	7.04	31.0	120.4	49.6	223	<0.5	121.1	14.3	66	2.96	48	2.9	6.4	29	0.7	15.1	<0.5	35	0.04	0.031
3200571	Drill Core	7.00	27.1	132.6	87.4	150	0.9	122.9	15.3	72	4.29	64	2.8	5.7	29	0.7	16.5	<0.5	40	0.03	0.027
3200572	Drill Core	5.86	27.9	104.3	47.9	510	0.6	106.1	13.5	58	2.89	40	2.4	5.3	31	2.4	10.1	<0.5	37	0.01	0.024
3200573	Drill Core	6.98	22.9	160.7	47.3	786	0.5	101.6	14.0	305	3.67	32	2.9	4.9	58	1.1	7.3	<0.5	52	0.18	0.053
3200574	Drill Core	6.12	18.4	174.2	75.6	138	0.9	94.5	13.5	147	3.64	37	3.8	4.6	49	2.0	7.2	<0.5	42	0.04	0.032
3200575	Drill Core	7.97	25.8	87.7	80.4	488	0.8	96.9	14.9	168	4.35	43	4.1	5.3	43	2.2	9.7	<0.5	53	0.12	0.067
3200576	Drill Core	5.15	22.5	74.4	64.0	204	0.8	80.1	11.6	177	3.17	31	3.2	5.4	49	3.0	9.3	<0.5	54	0.14	0.079
3200577	Drill Core	4.91	31.4	75.9	89.3	248	0.9	105.6	14.4	49	2.94	44	8.2	4.6	65	42.3	12.8	<0.5	48	0.01	0.052
3200578	Drill Core	5.44	25.0	74.1	60.2	523	0.6	90.6	12.4	51	3.32	28	5.3	4.7	68	23.4	7.5	<0.5	49	0.02	0.063
3200579	Drill Core	6.27	22.0	62.6	73.5	102	0.8	77.2	10.7	44	2.41	21	5.0	4.6	66	13.5	7.5	<0.5	62	0.02	0.044
3200580	Rock	0.92	1.1	49.7	2.9	47	<0.5	5.0	10.3	533	3.17	<5	0.9	2.6	110	<0.5	<0.5	<0.5	117	1.19	0.057
3200581	Drill Core	3.00	26.4	70.7	82.5	140	0.7	89.4	13.1	55	2.96	25	6.1	4.5	49	21.2	9.0	<0.5	52	<0.01	0.030
3200582	Drill Core	3.41	26.1	75.3	83.1	153	0.7	96.7	13.3	48	3.14	25	6.0	4.3	52	21.1	9.3	<0.5	53	0.01	0.033
3200583	Drill Core	5.21	29.7	134.8	73.1	191	0.7	90.1	12.1	49	2.32	23	5.4	4.6	41	26.4	8.8	<0.5	47	<0.01	0.029
3200584	Drill Core	5.22	26.8	178.1	105.9	70	0.8	81.0	13.3	56	3.76	25	5.9	4.8	58	9.7	9.5	<0.5	54	<0.01	0.030
3200585	Drill Core	6.41	20.3	148.9	62.2	284	0.5	73.2	9.5	48	2.31	18	5.0	4.7	64	7.4	8.4	<0.5	64	<0.01	0.030
3200586	Drill Core	6.86	19.1	146.7	95.0	86	0.8	77.8	12.3	41	3.03	24	5.1	5.7	94	1.1	10.5	<0.5	65	<0.01	0.055
3200587	Drill Core	5.38	21.5	149.7	81.3	234	0.6	85.1	10.3	47	2.93	22	5.1	4.7	85	3.1	10.7	<0.5	72	<0.01	0.043
3200588	Drill Core	5.06	21.2	102.6	68.8	404	0.6	72.7	9.1	40	1.99	23	3.5	4.6	40	3.9	10.4	<0.5	73	<0.01	0.015
3200589	Drill Core	5.26	18.9	136.5	75.2	336	0.5	72.4	8.9	43	2.59	28	4.0	4.6	58	3.3	12.4	<0.5	71	<0.01	0.058
3200590	Drill Core	6.33	20.9	87.2	59.2	222	<0.5	70.2	9.0	40	2.09	24	3.4	4.4	58	2.8	12.3	<0.5	69	<0.01	0.034
3200591	Drill Core	4.26	21.6	72.1	58.7	370	<0.5	73.3	8.5	42	1.90	28	3.7	4.2	103	5.5	14.6	<0.5	91	0.01	0.110



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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
3200562	Rock Pulp	22.2	14.4	2.72	229	0.016	0.98	0.01	0.63	0.7	0.78	2.4	42.3	7.92	<5	<2	37.92	7.56	10.96	6.85	4.87
3200563	Drill Core	16.0	5.1	0.02	1504	0.005	0.38	<0.01	0.20	<0.5	0.08	1.1	<0.5	0.07	<5	7	79.76	8.93	0.91	0.01	0.49
3200564	Drill Core	21.4	6.0	0.02	1404	0.009	0.34	<0.01	0.18	<0.5	0.18	1.9	<0.5	0.06	<5	4	78.73	9.05	0.90	0.02	0.49
3200565	Drill Core	13.6	8.5	0.02	1680	0.006	0.40	<0.01	0.19	1.1	0.21	1.3	0.5	1.84	<5	8	74.89	8.92	3.70	0.01	0.50
3200566	Drill Core	10.8	7.0	0.02	252	0.003	0.40	<0.01	0.19	<0.5	0.27	3.4	1.1	5.59	<5	5	63.75	10.35	7.55	<0.01	0.54
3200567	Drill Core	12.0	8.0	0.02	402	0.004	0.44	<0.01	0.21	<0.5	0.28	3.4	1.2	5.61	<5	6	64.34	10.36	7.59	0.01	0.57
3200568	Drill Core	7.8	7.8	0.02	339	0.003	0.40	<0.01	0.18	<0.5	0.38	5.2	1.1	6.24	<5	8	62.33	10.77	8.33	0.02	0.58
3200569	Drill Core	9.1	9.5	0.02	728	0.004	0.43	<0.01	0.20	<0.5	0.24	3.6	1.6	4.61	<5	7	69.94	9.60	6.23	0.01	0.51
3200570	Drill Core	10.7	9.1	0.02	1281	0.004	0.44	<0.01	0.20	<0.5	0.21	2.9	1.1	2.56	<5	6	73.00	9.39	4.30	0.07	0.50
3200571	Drill Core	10.5	10.5	0.02	1089	0.004	0.48	<0.01	0.21	<0.5	0.25	2.3	1.6	4.37	<5	9	71.60	9.27	6.32	0.06	0.48
3200572	Drill Core	10.9	9.0	0.02	1417	0.005	0.48	<0.01	0.21	<0.5	0.17	3.1	1.3	2.82	<5	4	75.08	8.85	4.08	0.02	0.45
3200573	Drill Core	10.8	10.4	0.06	1312	0.006	0.53	<0.01	0.22	<0.5	0.18	3.4	1.0	2.74	<5	6	73.08	8.93	5.33	0.25	0.51
3200574	Drill Core	9.2	12.3	0.02	953	0.004	0.48	<0.01	0.20	<0.5	0.22	3.1	1.3	3.65	<5	5	73.14	8.44	5.39	0.07	0.43
3200575	Drill Core	9.7	12.2	0.03	1068	0.005	0.52	<0.01	0.20	<0.5	0.22	2.2	1.3	3.83	<5	4	70.85	9.34	6.47	0.18	0.47
3200576	Drill Core	12.7	12.9	0.03	1324	0.005	0.57	<0.01	0.25	<0.5	0.14	2.1	1.2	2.98	<5	5	73.48	9.19	4.55	0.21	0.46
3200577	Drill Core	11.2	13.8	0.02	963	0.004	0.52	<0.01	0.18	<0.5	0.14	1.8	1.5	3.03	<5	5	72.40	9.60	4.28	0.03	0.48
3200578	Drill Core	10.2	18.2	0.02	930	0.003	0.54	<0.01	0.19	<0.5	0.24	2.0	1.1	3.42	<5	5	73.07	9.53	4.80	0.04	0.47
3200579	Drill Core	12.6	16.2	0.02	1123	0.004	0.55	<0.01	0.20	<0.5	0.14	1.9	1.2	2.46	<5	7	74.46	9.76	3.56	0.03	0.50
3200580	Rock	8.0	5.1	0.91	182	0.191	2.21	0.31	0.31	<0.5	<0.05	3.8	<0.5	<0.05	6	<2	60.19	16.71	6.35	6.24	2.82
3200581	Drill Core	13.7	17.4	0.02	1228	0.004	0.50	<0.01	0.20	<0.5	0.19	2.3	1.2	3.00	<5	7	73.86	9.21	4.28	0.02	0.44
3200582	Drill Core	13.2	15.7	0.02	1254	0.004	0.48	<0.01	0.19	<0.5	0.12	2.6	1.3	3.26	<5	5	72.72	9.07	4.52	0.02	0.44
3200583	Drill Core	12.7	14.2	0.02	1126	0.004	0.53	<0.01	0.21	<0.5	0.19	3.0	1.3	2.36	<5	3	73.92	9.77	3.46	0.01	0.49
3200584	Drill Core	12.0	14.9	0.02	1145	0.004	0.56	<0.01	0.21	<0.5	0.19	3.2	1.3	3.90	<5	5	72.04	9.82	5.40	0.02	0.46
3200585	Drill Core	13.1	15.0	0.02	1161	0.004	0.60	<0.01	0.20	<0.5	0.13	3.2	0.9	2.36	<5	7	73.28	10.04	3.35	0.02	0.48
3200586	Drill Core	13.7	14.5	0.02	1466	0.004	0.62	<0.01	0.21	<0.5	0.15	3.0	0.9	3.11	<5	6	73.00	10.17	4.45	0.02	0.49
3200587	Drill Core	12.2	17.6	0.02	1271	0.004	0.58	<0.01	0.20	<0.5	0.18	3.6	0.9	2.96	<5	4	74.06	9.22	4.25	0.02	0.43
3200588	Drill Core	12.9	12.4	0.02	1168	0.004	0.54	<0.01	0.20	<0.5	0.15	2.0	0.8	2.02	<5	6	76.71	9.14	2.97	0.02	0.44
3200589	Drill Core	12.0	14.5	0.02	1516	0.006	0.62	<0.01	0.21	<0.5	0.13	1.8	0.8	2.63	<5	6	73.29	9.46	3.73	0.02	0.45
3200590	Drill Core	11.2	14.8	0.02	1551	0.005	0.57	<0.01	0.22	<0.5	0.14	2.2	0.7	2.11	<5	3	76.37	9.28	3.15	0.02	0.47
3200591	Drill Core	12.2	15.7	0.02	2999	0.005	0.69	<0.01	0.21	0.5	0.12	2.8	0.8	1.92	<5	5	75.17	9.52	2.84	0.03	0.46



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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
3200562 Rock Pulp	3.53	0.30	0.26	0.11	<0.01	0.10	0.04	3.47	4.93	16.54	99.09	<0.01	3.45	7.80	0.68	<0.02	10.12	3.78	12.05
3200563 Drill Core	2.24	0.03	0.45	0.01	<0.01	0.93	<0.01	0.01	<0.01	5.61	99.51	0.04	4.05	0.09	3.94	0.10	<0.08	0.06	0.10
3200564 Drill Core	2.23	0.04	0.44	0.03	<0.01	0.96	<0.01	0.02	<0.01	5.88	98.94	0.05	4.31	0.08	4.17	0.13	<0.08	<0.05	0.10
3200565 Drill Core	2.22	0.03	0.49	0.03	<0.01	0.96	<0.01	0.02	<0.01	8.06	100.01	0.05	4.95	1.91	4.85	0.09	<0.08	1.83	0.22
3200566 Drill Core	2.52	0.04	0.52	<0.01	<0.01	2.14	<0.01	0.02	0.01	10.81	98.56	0.05	5.07	5.86	5.03	0.03	<0.08	5.52	1.00
3200567 Drill Core	2.55	0.04	0.53	0.02	<0.01	2.19	<0.01	0.02	0.01	10.81	99.35	0.05	5.06	5.74	5.03	0.03	<0.08	5.40	1.03
3200568 Drill Core	2.64	0.03	0.54	0.02	<0.01	1.50	0.01	0.02	0.02	11.91	98.97	0.05	5.60	6.44	5.09	0.49	<0.08	6.24	0.60
3200569 Drill Core	2.32	0.03	0.51	0.03	<0.01	0.96	0.02	0.02	0.02	9.17	99.53	0.06	4.63	4.61	4.45	0.18	<0.08	4.54	0.22
3200570 Drill Core	2.29	0.03	0.46	0.07	<0.01	1.01	<0.01	0.01	0.02	7.45	98.77	0.05	4.23	2.57	3.69	0.53	<0.08	2.50	0.21
3200571 Drill Core	2.25	0.04	0.48	0.07	<0.01	1.00	<0.01	0.02	0.01	7.62	99.39	0.05	3.37	4.45	3.21	0.14	<0.08	4.37	0.23
3200572 Drill Core	2.16	0.03	0.43	0.06	<0.01	1.04	<0.01	<0.01	0.05	6.44	98.87	0.05	3.36	2.81	3.12	0.22	<0.08	2.74	0.21
3200573 Drill Core	2.16	0.06	0.44	0.13	<0.01	1.01	<0.01	0.01	0.08	7.49	99.67	0.07	4.03	2.80	3.66	0.27	0.35	2.67	0.41
3200574 Drill Core	2.03	0.03	0.42	0.09	<0.01	0.93	<0.01	0.01	0.01	7.98	99.12	0.06	4.29	3.78	4.06	0.21	<0.08	3.72	0.20
3200575 Drill Core	2.23	0.05	0.46	0.16	<0.01	1.07	<0.01	0.01	0.05	8.18	99.71	0.07	4.20	3.90	3.87	0.30	0.13	3.82	0.23
3200576 Drill Core	2.18	0.05	0.48	0.19	<0.01	1.06	<0.01	0.02	0.02	6.77	98.81	0.08	3.39	2.92	3.12	0.23	0.15	2.86	0.18
3200577 Drill Core	2.24	0.02	0.48	0.14	<0.01	1.27	<0.01	0.02	0.03	7.64	98.82	0.07	4.04	3.15	3.66	0.38	<0.08	3.03	0.37
3200578 Drill Core	2.28	0.03	0.48	0.16	<0.01	0.97	<0.01	<0.01	0.05	7.71	99.77	0.07	4.02	3.46	3.69	0.32	<0.08	3.38	0.24
3200579 Drill Core	2.32	0.03	0.49	0.12	0.01	0.99	<0.01	0.01	0.01	7.36	99.81	0.11	4.31	2.57	4.12	0.19	<0.08	2.52	0.15
3200580 Rock	1.42	0.16	0.53	0.13	<0.01	0.06	<0.01	<0.01	<0.01	0.92	98.85	0.03	<0.02	<0.02	<0.02	<0.02	<0.08	<0.05	0.13
3200581 Drill Core	2.20	0.03	0.45	0.08	0.01	0.99	<0.01	0.01	0.01	7.81	99.56	0.08	4.43	2.99	4.13	0.29	<0.08	2.93	0.17
3200582 Drill Core	2.14	0.02	0.44	0.09	0.01	1.00	<0.01	0.02	0.01	7.96	98.59	0.08	4.38	3.25	4.09	0.28	<0.08	3.19	0.20
3200583 Drill Core	2.32	0.04	0.47	0.07	<0.01	1.08	<0.01	0.01	0.02	7.65	99.50	0.08	4.63	2.40	4.21	0.41	<0.08	2.35	0.15
3200584 Drill Core	2.30	0.04	0.49	0.08	0.01	1.12	0.01	0.02	<0.01	7.77	99.76	0.07	3.66	3.81	3.29	0.36	<0.08	3.75	0.20
3200585 Drill Core	2.36	0.03	0.50	0.10	0.01	1.10	<0.01	0.01	0.03	6.70	98.19	0.11	3.60	2.45	2.51	1.08	<0.08	2.39	0.20
3200586 Drill Core	2.38	0.03	0.52	0.14	0.01	1.16	<0.01	0.02	0.01	6.89	99.46	0.09	3.20	3.19	2.50	0.69	<0.08	3.12	0.20
3200587 Drill Core	2.15	0.03	0.45	0.11	0.02	1.06	<0.01	0.01	0.02	6.95	98.96	0.09	3.53	2.99	3.25	0.27	<0.08	2.92	0.20
3200588 Drill Core	2.18	0.03	0.46	0.05	<0.01	1.03	<0.01	0.02	0.04	6.18	99.43	0.13	3.42	1.97	3.04	0.37	<0.08	1.92	0.16
3200589 Drill Core	2.18	0.04	0.48	0.16	<0.01	1.16	0.01	0.01	0.03	6.75	97.94	0.11	3.52	2.68	3.21	0.30	<0.08	2.61	0.21
3200590 Drill Core	2.19	0.03	0.47	0.11	<0.01	1.14	<0.01	0.01	0.02	6.35	99.79	0.11	3.51	2.12	2.97	0.52	<0.08	2.07	0.16
3200591 Drill Core	2.13	0.02	0.48	0.28	0.01	1.30	<0.01	<0.01	0.04	6.47	98.95	0.13	3.48	1.98	2.89	0.58	<0.08	1.91	0.21



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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
3200592	Drill Core	5.57	18.9	52.5	55.1	192	0.5	72.4	8.2	42	2.07	33	3.3	4.0	42	7.3	15.1	<0.5	81	<0.01	0.059			
3200593	Drill Core	2.77	19.4	46.5	63.5	255	<0.5	119.5	14.1	46	3.13	53	7.4	3.4	89	7.5	17.4	<0.5	95	0.01	0.096			
3200594	Drill Core	3.21	16.6	40.1	40.1	1126	<0.5	61.8	7.0	37	1.40	31	5.8	3.6	40	18.0	13.9	<0.5	84	0.01	0.056			
3200595	Drill Core	6.75	17.9	57.2	65.7	209	0.5	71.4	6.9	50	2.34	26	2.4	4.1	57	3.6	15.0	<0.5	85	0.01	0.108			
3200596	Drill Core	5.98	22.2	43.2	67.7	105	<0.5	74.7	7.1	53	2.36	28	2.6	4.5	24	4.4	11.4	<0.5	92	<0.01	0.026			
3200597	Drill Core	3.29	17.4	44.9	65.9	94	<0.5	66.4	6.0	59	3.87	18	2.5	3.9	11	2.6	9.5	<0.5	125	0.05	0.031			
3200598	Drill Core	3.91	18.6	37.0	60.2	129	<0.5	59.2	6.0	62	1.69	21	2.3	4.2	44	1.7	6.6	<0.5	90	0.11	0.087			
3200599	Drill Core	5.32	18.1	48.8	78.1	712	0.6	70.5	7.1	402	2.79	23	2.6	4.0	31	<0.5	7.4	<0.5	88	0.19	0.116			
3200600	Rock Pulp	0.05	2.7	340.8	>40000	107702	94.7	21.5	23.9	1342	7.65	150	1.3	5.7	17	319.8	170.2	0.6	31	3.72	0.037			
3200601	Drill Core	2.27	18.3	41.5	71.2	1563	<0.5	72.0	7.0	366	3.17	21	2.3	3.6	41	<0.5	6.8	<0.5	93	0.14	0.120			
3200602	Drill Core	2.59	18.1	42.2	64.9	1637	0.5	70.0	6.6	336	3.09	22	2.3	3.4	40	<0.5	6.8	<0.5	94	0.12	0.108			
3200603	Drill Core	4.68	17.0	37.1	65.3	3601	<0.5	75.4	9.0	2486	6.59	25	2.7	4.0	87	<0.5	6.9	<0.5	125	0.20	0.196			
3200604	Drill Core	5.12	20.0	70.7	278.6	4149	0.9	73.8	7.9	596	3.92	33	2.2	4.0	27	4.0	10.6	<0.5	115	0.21	0.096			
3200605	Drill Core	2.85	15.3	91.3	4509.9	34447	1.8	58.0	6.5	280	4.92	39	2.5	4.0	39	46.8	11.1	<0.5	115	0.24	0.121			
3200606	Drill Core	3.03	13.5	70.1	15527.9	89581	4.0	39.2	8.6	159	2.22	28	1.6	2.3	36	247.1	10.8	<0.5	133	0.11	0.057			
3200607	Drill Core	1.64	17.2	77.0	4866.4	79928	2.1	67.8	10.0	315	3.94	44	2.3	3.1	67	89.3	9.9	<0.5	554	0.16	0.085			
3200608	Drill Core	1.61	16.6	76.7	4797.5	75099	2.1	65.3	9.0	284	3.65	45	2.4	3.3	63	84.6	10.1	<0.5	545	0.16	0.082			
3200609	Drill Core	2.77	11.6	50.1	8819.8	45447	2.4	55.5	4.5	131	2.47	67	2.2	3.0	99	34.8	7.0	<0.5	501	0.25	0.141			
3200610	Drill Core	2.20	17.4	47.9	3807.5	62387	1.1	59.6	7.4	113	2.13	63	3.3	4.3	134	14.4	7.8	<0.5	610	0.24	0.147			
3200611	Drill Core	5.07	9.5	31.5	3805.2	80281	0.6	35.9	4.8	302	1.47	27	2.3	2.0	51	13.6	7.0	<0.5	384	0.15	0.089			
3200612	Drill Core	3.25	4.0	31.5	9218.6	62383	0.9	17.1	2.5	144	0.60	14	1.2	0.8	52	50.3	4.5	<0.5	129	0.07	0.038			
3200613	Drill Core	1.64	5.0	33.7	6874.1	67377	2.5	16.8	3.1	278	0.98	13	1.4	0.7	62	43.4	5.1	<0.5	134	0.06	0.034			
3200614	Drill Core	4.35	18.2	61.3	3117.9	66321	1.9	55.1	5.5	137	2.18	46	2.2	4.4	189	27.5	6.4	<0.5	597	0.22	0.118			
3200615	Drill Core	2.43	18.0	60.2	315.3	18791	1.0	65.5	5.6	89	2.74	41	2.1	3.6	72	10.9	9.9	<0.5	248	0.25	0.115			
3200616	Drill Core	4.09	16.7	59.1	296.3	5512	1.4	65.3	5.7	288	3.46	41	2.7	3.8	66	3.7	17.3	<0.5	153	0.28	0.136			
3200617	Drill Core	4.16	18.2	47.5	90.6	1069	0.7	68.1	5.2	656	3.60	37	2.3	3.5	76	<0.5	12.1	<0.5	124	0.27	0.130			
3200618	Drill Core	3.26	15.7	49.9	67.5	1149	0.8	70.9	5.4	1189	4.37	37	2.5	3.2	59	<0.5	14.0	<0.5	128	0.31	0.142			
3200619	Drill Core	2.03	14.6	36.0	57.0	928	0.7	57.2	5.1	1438	4.30	31	2.7	3.1	48	<0.5	12.9	<0.5	122	0.28	0.118			
3200620	Rock Pulp	0.12	2.6	229.6	18147.6	30793	33.9	26.5	20.6	1889	5.43	86	1.6	7.6	23	95.6	51.0	<0.5	26	5.29	0.052			
3200621	Drill Core	2.68	14.9	38.4	112.6	521	0.8	62.0	4.3	464	2.65	39	2.5	3.2	80	<0.5	13.4	<0.5	91	0.27	0.152			



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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
3200592	Drill Core	12.0	15.1	0.02	2064	0.005	0.60	<0.01	0.20	<0.5	0.05	1.9	1.0	2.12	<5	4	76.75	9.19	3.09	0.02	0.43
3200593	Drill Core	10.3	17.6	0.02	867	0.003	0.63	<0.01	0.16	0.6	0.10	2.6	1.5	3.13	<5	5	74.85	8.34	4.46	0.02	0.36
3200594	Drill Core	10.4	14.7	0.02	2223	0.004	0.61	<0.01	0.17	<0.5	0.17	1.1	0.8	1.41	<5	4	79.73	8.33	2.10	0.01	0.37
3200595	Drill Core	11.9	14.7	0.02	1473	0.005	0.73	<0.01	0.18	<0.5	0.07	1.8	0.8	2.36	<5	4	76.60	8.38	3.44	0.02	0.37
3200596	Drill Core	9.6	14.9	0.02	759	0.004	0.58	<0.01	0.18	<0.5	0.10	2.1	0.8	2.33	<5	6	76.33	8.81	3.54	0.01	0.39
3200597	Drill Core	7.3	16.7	0.02	929	0.004	0.46	<0.01	0.15	<0.5	0.08	2.1	0.6	3.52	<5	5	76.03	7.42	5.76	0.07	0.34
3200598	Drill Core	10.4	16.0	0.02	1451	0.003	0.60	<0.01	0.16	<0.5	0.08	2.4	0.6	1.56	<5	4	78.48	7.58	2.50	0.15	0.32
3200599	Drill Core	12.4	16.1	0.02	1628	0.004	1.56	<0.01	0.16	<0.5	0.11	1.7	0.8	1.58	<5	5	73.41	8.00	4.04	0.28	0.29
3200600	Rock Pulp	17.9	12.7	2.11	86	0.012	0.79	<0.01	0.50	<0.5	4.14	2.2	42.0	10.80	<5	<2	34.11	6.88	11.50	5.33	3.83
3200601	Drill Core	10.3	16.7	0.02	1409	0.003	1.84	<0.01	0.13	<0.5	0.12	2.2	0.8	1.77	<5	3	72.53	7.23	4.55	0.21	0.23
3200602	Drill Core	10.3	15.8	0.02	1627	0.003	1.88	<0.01	0.13	<0.5	0.14	2.0	0.8	1.72	<5	3	73.17	7.28	4.51	0.18	0.23
3200603	Drill Core	11.0	17.3	0.04	720	0.003	1.68	<0.01	0.12	<0.5	0.10	2.7	0.8	2.45	<5	5	64.12	6.87	9.57	0.27	0.22
3200604	Drill Core	11.3	16.8	0.02	1140	0.003	2.11	<0.01	0.12	<0.5	0.52	2.9	5.1	2.36	<5	6	70.64	7.29	5.83	0.31	0.19
3200605	Drill Core	7.9	20.2	0.02	383	0.003	2.32	<0.01	0.12	<0.5	3.73	4.3	9.5	5.43	<5	14	63.62	6.73	7.15	0.33	0.15
3200606	Drill Core	7.9	23.4	<0.01	361	0.007	0.67	<0.01	0.04	<0.5	11.00	1.0	3.9	5.95	6	16	72.16	2.82	3.16	0.15	0.07
3200607	Drill Core	12.7	79.4	<0.01	258	0.105	1.12	<0.01	0.04	0.5	7.85	3.1	5.8	6.75	7	8	66.28	4.68	5.67	0.22	0.04
3200608	Drill Core	12.6	75.5	<0.01	221	0.105	1.00	<0.01	0.04	<0.5	7.59	2.5	5.9	6.37	7	9	67.42	4.60	5.35	0.23	0.03
3200609	Drill Core	12.6	90.5	<0.01	479	0.112	1.47	<0.01	0.03	<0.5	3.61	2.7	3.1	3.61	<5	7	69.40	4.55	3.53	0.37	0.02
3200610	Drill Core	18.5	117.0	<0.01	367	0.165	0.98	<0.01	<0.01	0.6	2.38	1.8	2.5	4.52	<5	6	73.14	5.37	3.06	0.33	<0.01
3200611	Drill Core	7.7	67.3	<0.01	322	0.097	0.92	<0.01	<0.01	<0.5	1.30	1.7	2.1	4.64	6	7	41.58	3.32	2.10	0.21	0.04
3200612	Drill Core	3.1	21.8	<0.01	489	0.037	0.38	<0.01	<0.01	<0.5	1.44	1.2	1.9	3.31	<5	<2	17.82	1.26	0.85	0.10	0.03
3200613	Drill Core	2.8	24.2	<0.01	668	0.039	0.41	<0.01	<0.01	<0.5	13.41	2.2	1.6	3.55	<5	2	19.32	1.57	1.40	0.09	0.03
3200614	Drill Core	17.8	110.4	<0.01	873	0.152	3.23	<0.01	0.08	<0.5	16.13	2.9	2.3	2.97	9	8	64.56	6.27	3.10	0.30	0.03
3200615	Drill Core	17.2	42.1	0.01	1331	0.004	3.29	<0.01	0.09	<0.5	3.48	4.7	5.9	1.67	6	5	68.53	7.23	3.96	0.37	0.08
3200616	Drill Core	13.4	25.6	0.01	1372	0.003	3.03	<0.01	0.10	<0.5	1.26	2.9	7.4	1.77	<5	5	67.51	7.18	5.03	0.39	0.12
3200617	Drill Core	15.1	21.6	0.02	2224	0.003	2.63	<0.01	0.12	<0.5	0.22	2.9	1.1	1.26	<5	6	70.14	7.22	5.37	0.39	0.17
3200618	Drill Core	11.5	20.1	0.02	1452	0.003	2.05	<0.01	0.11	<0.5	0.18	2.8	1.1	1.56	<5	7	69.01	6.67	6.49	0.45	0.19
3200619	Drill Core	12.0	19.3	0.02	2378	0.003	1.80	<0.01	0.11	<0.5	0.08	2.6	0.9	1.18	<5	6	72.31	6.13	6.47	0.40	0.18
3200620	Rock Pulp	25.7	14.2	2.91	144	0.019	1.06	0.01	0.75	0.6	1.04	2.3	26.4	4.89	<5	<2	43.23	8.55	8.26	7.37	5.30
3200621	Drill Core	10.6	16.4	0.01	1925	0.003	1.18	<0.01	0.09	<0.5	0.12	2.2	1.0	1.32	<5	4	74.14	6.22	3.93	0.40	0.16



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	Method	Analyte	Unit	MDL	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
3200592	Drill Core	2.03	0.03	0.47	0.20	0.01	1.17	<0.01	0.02	0.02	6.20	99.80	0.12	3.06	2.19	2.66	0.39	<0.08	2.12	0.22			
3200593	Drill Core	1.62	0.03	0.40	0.28	<0.01	1.25	<0.01	0.02	0.03	7.21	99.04	0.12	3.14	3.25	2.55	0.58	<0.08	3.12	0.41			
3200594	Drill Core	1.67	0.03	0.40	0.18	<0.01	1.02	<0.01	<0.01	0.11	5.32	99.45	0.13	2.67	1.42	2.15	0.52	<0.08	1.35	0.24			
3200595	Drill Core	1.69	0.03	0.41	0.27	<0.01	1.25	<0.01	<0.01	0.03	6.11	98.76	0.12	2.65	2.45	2.40	0.24	<0.08	2.34	0.33			
3200596	Drill Core	1.75	0.03	0.42	0.07	0.01	1.53	<0.01	<0.01	0.01	6.44	99.57	0.13	2.87	2.56	2.54	0.33	<0.08	2.35	0.65			
3200597	Drill Core	1.49	0.03	0.38	0.08	0.02	0.75	<0.01	<0.01	0.01	6.77	99.25	0.11	2.80	3.63	2.58	0.21	<0.08	3.54	0.26			
3200598	Drill Core	1.34	0.04	0.39	0.23	0.01	1.94	<0.01	<0.01	0.01	5.93	99.18	0.10	2.71	1.91	2.11	0.60	<0.08	1.56	1.05			
3200599	Drill Core	1.24	0.07	0.42	0.27	0.01	3.27	<0.01	<0.01	0.07	6.30	98.07	0.11	2.78	2.26	2.18	0.51	0.36	2.05	0.63			
3200600	Rock Pulp	3.49	0.18	0.23	0.08	<0.01	0.07	0.03	4.76	10.63	14.44	98.75	<0.01	2.56	10.70	0.59	<0.02	7.25	5.46	15.73			
3200601	Drill Core	0.95	0.06	0.36	0.28	<0.01	4.27	<0.01	<0.01	0.16	6.81	98.21	0.10	2.79	2.64	1.60	1.09	0.38	2.25	1.16			
3200602	Drill Core	0.97	0.07	0.36	0.27	0.01	4.42	<0.01	<0.01	0.17	6.83	99.04	0.10	2.79	2.72	1.70	0.99	0.36	2.31	1.20			
3200603	Drill Core	0.80	0.33	0.34	0.43	<0.01	4.31	<0.01	<0.01	0.36	9.95	98.18	0.10	3.29	3.43	1.36	1.24	2.54	2.55	2.64			
3200604	Drill Core	0.79	0.09	0.38	0.22	0.01	4.77	0.01	0.03	0.42	7.29	98.96	0.12	2.99	3.52	1.43	1.42	0.52	3.08	1.31			
3200605	Drill Core	0.56	0.06	0.30	0.26	0.01	5.39	<0.01	0.44	3.30	8.60	98.40	0.10	2.56	6.56	1.41	1.08	0.26	4.67	5.66			
3200606	Drill Core	0.17	0.05	0.21	0.13	<0.01	1.47	<0.01	1.51	8.75	6.74	99.88	0.06	1.89	5.89	1.54	0.30	0.18	2.17	11.17			
3200607	Drill Core	0.07	0.06	0.30	0.18	0.01	2.42	<0.01	0.46	7.63	8.93	99.17	0.11	2.56	7.26	1.42	1.03	0.38	3.38	11.65			
3200608	Drill Core	0.06	0.05	0.31	0.18	<0.01	2.44	<0.01	0.48	7.40	8.85	99.57	0.11	2.55	6.89	1.35	1.10	0.37	3.23	10.99			
3200609	Drill Core	0.04	0.04	0.26	0.33	<0.01	5.22	0.02	0.87	4.48	7.60	98.52	0.09	2.73	4.99	1.37	1.33	0.10	2.16	8.47			
3200610	Drill Core	<0.01	0.03	0.33	0.33	0.01	2.30	<0.01	0.37	6.07	6.74	99.90	0.11	1.30	5.13	0.90	0.38	<0.08	1.99	9.42			
3200611	Drill Core	<0.01	0.06	0.21	0.19	<0.01	22.41	<0.01	0.38	7.83	5.76	88.73	0.07	0.17	9.88	0.09	<0.02	0.27	1.23	25.95			
3200612	Drill Core	<0.01	0.05	0.06	0.08	<0.01	40.71	<0.01	0.94	6.12	3.20	77.56	0.02	0.08	12.08	0.04	<0.02	0.14	0.93	33.45			
3200613	Drill Core	<0.01	0.05	0.06	0.08	<0.01	38.22	0.01	0.68	6.48	3.69	77.78	0.01	0.15	12.56	0.07	<0.02	0.31	0.70	35.58			
3200614	Drill Core	0.10	0.04	0.34	0.25	0.01	8.26	<0.01	0.32	6.41	6.19	98.77	0.10	2.48	5.03	2.12	0.33	0.12	1.88	9.44			
3200615	Drill Core	0.30	0.04	0.39	0.28	0.02	7.76	<0.01	0.03	1.87	6.91	99.12	0.12	3.20	3.48	1.83	1.36	<0.08	2.52	2.90			
3200616	Drill Core	0.49	0.06	0.36	0.33	0.02	7.45	<0.01	0.03	0.54	7.48	97.99	0.13	3.40	3.46	2.32	1.01	0.28	2.93	1.59			
3200617	Drill Core	0.67	0.10	0.36	0.31	0.02	6.65	<0.01	0.01	0.11	7.53	99.86	0.12	3.65	2.72	2.32	1.15	0.65	2.34	1.15			
3200618	Drill Core	0.77	0.16	0.36	0.32	0.02	4.71	<0.01	<0.01	0.12	8.69	98.57	0.14	4.51	2.70	2.17	1.98	1.31	2.41	0.89			
3200619	Drill Core	0.73	0.21	0.31	0.28	0.02	4.15	0.02	<0.01	0.10	7.74	99.59	0.12	3.89	2.09	1.86	1.60	1.59	1.80	0.88			
3200620	Rock Pulp	4.14	0.25	0.28	0.11	<0.01	0.08	0.02	1.79	3.06	13.90	97.46	<0.01	3.33	4.64	0.51	<0.02	10.34	2.20	7.33			
3200621	Drill Core	0.73	0.08	0.30	0.37	0.01	4.56	<0.01	<0.01	0.06	7.27	98.77	0.12	3.58	2.36	1.69	1.78	0.41	1.63	2.17			



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Project: MacMillan Pass

Report Date: August 15, 2019

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CERTIFICATE OF ANALYSIS

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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
3200622	Drill Core	2.06	14.1	53.6	88.4	470	0.9	76.5	5.0	1647	4.92	38	2.0	2.7	73	<0.5	13.6	<0.5	106	0.26	0.123
3200623	Drill Core	2.61	17.9	46.4	128.8	428	0.9	76.1	4.9	674	3.26	41	2.5	3.7	68	<0.5	15.7	<0.5	100	0.27	0.134
3200624	Drill Core	2.39	17.8	46.2	141.1	340	0.8	70.1	5.2	506	3.04	40	2.4	3.4	67	<0.5	15.4	<0.5	99	0.26	0.143
3200625	Drill Core	2.50	13.4	81.4	245.7	489	1.3	63.1	9.0	1679	5.79	40	1.9	3.7	40	<0.5	17.1	<0.5	87	0.17	0.085
3200626	Drill Core	2.71	3.9	42.5	49.6	220	0.7	62.6	10.7	1091	3.49	36	1.3	5.9	26	<0.5	8.2	<0.5	40	0.15	0.078
3200627	Drill Core	4.70	4.3	39.5	44.3	322	0.7	73.2	12.6	649	2.94	29	1.2	7.1	33	<0.5	9.0	<0.5	40	0.08	0.082
3200628	Drill Core	4.64	14.4	66.8	150.9	86	1.4	70.3	9.6	110	2.37	47	3.1	5.9	70	<0.5	16.0	<0.5	85	0.26	0.118
3200629	Drill Core	6.92	17.8	76.2	122.9	145	1.4	82.9	5.3	223	4.33	46	2.8	4.0	47	<0.5	19.9	<0.5	100	0.24	0.121



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Project: MacMillan Pass

Report Date: August 15, 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
3200622	Drill Core	8.5	17.3	0.03	542	0.003	0.82	<0.01	0.09	<0.5	0.15	1.5	1.0	2.66	<5	9	69.69	5.95	7.13	0.36	0.18
3200623	Drill Core	11.3	16.9	0.02	1511	0.004	1.37	<0.01	0.12	<0.5	0.18	1.8	1.7	1.69	<5	5	73.73	6.95	4.73	0.39	0.21
3200624	Drill Core	11.3	16.0	0.02	1781	0.004	1.45	<0.01	0.13	<0.5	0.14	1.8	1.7	1.62	<5	7	74.59	6.76	4.41	0.38	0.20
3200625	Drill Core	10.1	13.9	0.03	734	0.003	1.31	<0.01	0.13	1.4	0.13	1.6	2.1	2.43	<5	6	69.72	6.97	8.54	0.24	0.26
3200626	Drill Core	15.4	10.2	0.02	3372	0.004	2.16	<0.01	0.15	<0.5	0.08	2.6	<0.5	0.92	<5	2	69.32	9.96	5.31	0.22	0.29
3200627	Drill Core	17.2	11.6	0.02	1538	0.005	0.82	<0.01	0.20	<0.5	0.10	1.6	<0.5	1.73	<5	4	70.96	11.03	4.37	0.12	0.42
3200628	Drill Core	13.7	16.9	0.02	1350	0.004	0.59	<0.01	0.17	0.8	0.14	1.7	2.4	2.17	<5	5	74.85	9.26	3.54	0.38	0.32
3200629	Drill Core	8.9	15.9	0.02	763	0.005	1.14	<0.01	0.18	<0.5	0.15	2.6	0.9	3.86	<5	9	72.09	7.59	6.48	0.35	0.29



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Project: MacMillan Pass

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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	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
3200622	Drill Core	0.71	0.23	0.30	0.30	0.01	3.46	<0.01	<0.01	0.05	12.30	101.10	0.11	3.76	3.45	2.45	0.89	1.54	2.57	2.65
3200623	Drill Core	0.95	0.11	0.36	0.33	<0.01	3.28	<0.01	0.01	0.04	7.62	99.11	0.12	3.91	2.35	2.09	1.64	0.66	2.02	0.97
3200624	Drill Core	0.93	0.09	0.34	0.31	0.02	3.38	<0.01	0.01	0.04	7.23	99.10	0.12	3.72	2.37	1.96	1.62	0.53	2.08	0.88
3200625	Drill Core	1.03	0.24	0.35	0.19	0.01	3.19	<0.01	0.02	0.05	8.23	99.47	0.10	3.33	3.13	1.67	1.09	2.10	2.74	1.18
3200626	Drill Core	1.40	0.16	0.54	0.18	<0.01	5.35	<0.01	<0.01	0.02	5.43	98.83	0.06	1.40	1.93	0.55	0.50	1.28	1.64	0.86
3200627	Drill Core	2.08	0.10	0.61	0.21	<0.01	2.45	<0.01	<0.01	0.03	5.72	98.44	0.06	1.34	2.07	0.76	0.36	0.79	1.71	1.10
3200628	Drill Core	1.74	0.03	0.50	0.30	0.01	1.54	<0.01	<0.01	<0.01	6.76	99.43	0.12	3.02	2.36	2.11	0.89	<0.08	2.14	0.69
3200629	Drill Core	1.47	0.05	0.41	0.28	<0.01	2.34	<0.01	<0.01	0.02	7.53	99.19	0.13	3.34	4.22	2.33	0.94	0.24	4.10	0.36



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QUALITY CONTROL REPORT

WHI19000194.1

	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200588	Drill Core	5.06	21.2	102.6	68.8	404	0.6	72.7	9.1	40	1.99	23	3.5	4.6	40	3.9	10.4	<0.5	73	<0.01	0.015
3200622	Drill Core	2.06	14.1	53.6	88.4	470	0.9	76.5	5.0	1647	4.92	38	2.0	2.7	73	<0.5	13.6	<0.5	106	0.26	0.123
Pulp Duplicates																					
3200567	Drill Core	2.05	11.5	146.9	107.8	107	1.0	77.1	22.2	84	5.10	72	1.8	8.7	15	0.5	39.4	<0.5	35	<0.01	<0.001
REP 3200567	QC																				
3200575	Drill Core	7.97	25.8	87.7	80.4	488	0.8	96.9	14.9	168	4.35	43	4.1	5.3	43	2.2	9.7	<0.5	53	0.12	0.067
REP 3200575	QC		25.0	82.2	80.5	491	0.9	95.0	14.0	165	4.40	40	4.2	4.7	44	2.3	9.9	<0.5	52	0.12	0.064
3200576	Drill Core	5.15	22.5	74.4	64.0	204	0.8	80.1	11.6	177	3.17	31	3.2	5.4	49	3.0	9.3	<0.5	54	0.14	0.079
REP 3200576	QC																				
3200580	Rock	0.92	1.1	49.7	2.9	47	<0.5	5.0	10.3	533	3.17	<5	0.9	2.6	110	<0.5	<0.5	<0.5	117	1.19	0.057
REP 3200580	QC																				
3200583	Drill Core	5.21	29.7	134.8	73.1	191	0.7	90.1	12.1	49	2.32	23	5.4	4.6	41	26.4	8.8	<0.5	47	<0.01	0.029
REP 3200583	QC																				
3200586	Drill Core	6.86	19.1	146.7	95.0	86	0.8	77.8	12.3	41	3.03	24	5.1	5.7	94	1.1	10.5	<0.5	65	<0.01	0.055
REP 3200586	QC																				
3200590	Drill Core	6.33	20.9	87.2	59.2	222	<0.5	70.2	9.0	40	2.09	24	3.4	4.4	58	2.8	12.3	<0.5	69	<0.01	0.034
REP 3200590	QC																				
3200594	Drill Core	3.21	16.6	40.1	40.1	1126	<0.5	61.8	7.0	37	1.40	31	5.8	3.6	40	18.0	13.9	<0.5	84	0.01	0.056
REP 3200594	QC																				
3200609	Drill Core	2.77	11.6	50.1	8819.8	45447	2.4	55.5	4.5	131	2.47	67	2.2	3.0	99	34.8	7.0	<0.5	501	0.25	0.141
REP 3200609	QC		11.9	50.6	8918.6	46424	2.2	57.4	4.9	136	2.49	66	2.3	3.1	101	35.2	7.2	<0.5	506	0.26	0.136
3200610	Drill Core	2.20	17.4	47.9	3807.5	62387	1.1	59.6	7.4	113	2.13	63	3.3	4.3	134	14.4	7.8	<0.5	610	0.24	0.147
REP 3200610	QC																				
3200613	Drill Core	1.64	5.0	33.7	6874.1	67377	2.5	16.8	3.1	278	0.98	13	1.4	0.7	62	43.4	5.1	<0.5	134	0.06	0.034
REP 3200613	QC																				
3200617	Drill Core	4.16	18.2	47.5	90.6	1069	0.7	68.1	5.2	656	3.60	37	2.3	3.5	76	<0.5	12.1	<0.5	124	0.27	0.130
REP 3200617	QC																				
3200620	Rock Pulp	0.12	2.6	229.6	18147.6	30793	33.9	26.5	20.6	1889	5.43	86	1.6	7.6	23	95.6	51.0	<0.5	26	5.29	0.052
REP 3200620	QC																				



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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
3200588	Drill Core	12.9	12.4	0.02	1168	0.004	0.54	<0.01	0.20	<0.5	0.15	2.0	0.8	2.02	<5	6	76.71	9.14	2.97	0.02	0.44
3200622	Drill Core	8.5	17.3	0.03	542	0.003	0.82	<0.01	0.09	<0.5	0.15	1.5	1.0	2.66	<5	9	69.69	5.95	7.13	0.36	0.18
Pulp Duplicates																					
3200567	Drill Core	12.0	8.0	0.02	402	0.004	0.44	<0.01	0.21	<0.5	0.28	3.4	1.2	5.61	<5	6	64.34	10.36	7.59	0.01	0.57
REP 3200567	QC																				
3200575	Drill Core	9.7	12.2	0.03	1068	0.005	0.52	<0.01	0.20	<0.5	0.22	2.2	1.3	3.83	<5	4	70.85	9.34	6.47	0.18	0.47
REP 3200575	QC	8.9	11.5	0.02	1075	0.004	0.53	<0.01	0.20	<0.5	0.18	2.6	1.2	3.81	<5	5					
3200576	Drill Core	12.7	12.9	0.03	1324	0.005	0.57	<0.01	0.25	<0.5	0.14	2.1	1.2	2.98	<5	5	73.48	9.19	4.55	0.21	0.46
REP 3200576	QC																				
3200580	Rock	8.0	5.1	0.91	182	0.191	2.21	0.31	0.31	<0.5	<0.05	3.8	<0.5	<0.05	6	<2	60.19	16.71	6.35	6.24	2.82
REP 3200580	QC																60.17	16.61	6.33	6.23	2.81
3200583	Drill Core	12.7	14.2	0.02	1126	0.004	0.53	<0.01	0.21	<0.5	0.19	3.0	1.3	2.36	<5	3	73.92	9.77	3.46	0.01	0.49
REP 3200583	QC																				
3200586	Drill Core	13.7	14.5	0.02	1466	0.004	0.62	<0.01	0.21	<0.5	0.15	3.0	0.9	3.11	<5	6	73.00	10.17	4.45	0.02	0.49
REP 3200586	QC																73.06	10.16	4.45	0.02	0.49
3200590	Drill Core	11.2	14.8	0.02	1551	0.005	0.57	<0.01	0.22	<0.5	0.14	2.2	0.7	2.11	<5	3	76.37	9.28	3.15	0.02	0.47
REP 3200590	QC																				
3200594	Drill Core	10.4	14.7	0.02	2223	0.004	0.61	<0.01	0.17	<0.5	0.17	1.1	0.8	1.41	<5	4	79.73	8.33	2.10	0.01	0.37
REP 3200594	QC																				
3200609	Drill Core	12.6	90.5	<0.01	479	0.112	1.47	<0.01	0.03	<0.5	3.61	2.7	3.1	3.61	<5	7	69.40	4.55	3.53	0.37	0.02
REP 3200609	QC	13.1	90.9	<0.01	411	0.114	1.49	<0.01	0.03	<0.5	3.65	2.9	3.1	3.65	<5	8					
3200610	Drill Core	18.5	117.0	<0.01	367	0.165	0.98	<0.01	<0.01	0.6	2.38	1.8	2.5	4.52	<5	6	73.14	5.37	3.06	0.33	<0.01
REP 3200610	QC																				
3200613	Drill Core	2.8	24.2	<0.01	668	0.039	0.41	<0.01	<0.01	<0.5	13.41	2.2	1.6	3.55	<5	2	19.32	1.57	1.40	0.09	0.03
REP 3200613	QC																19.38	1.57	1.41	0.09	0.03
3200617	Drill Core	15.1	21.6	0.02	2224	0.003	2.63	<0.01	0.12	<0.5	0.22	2.9	1.1	1.26	<5	6	70.14	7.22	5.37	0.39	0.17
REP 3200617	QC																				
3200620	Rock Pulp	25.7	14.2	2.91	144	0.019	1.06	0.01	0.75	0.6	1.04	2.3	26.4	4.89	<5	<2	43.23	8.55	8.26	7.37	5.30
REP 3200620	QC																43.84	8.72	8.43	7.49	5.40



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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
3200588	Drill Core	2.18	0.03	0.46	0.05	<0.01	1.03	<0.01	0.02	0.04	6.18	99.43	0.13	3.42	1.97	3.04	0.37	<0.08	1.92	0.16
3200622	Drill Core	0.71	0.23	0.30	0.30	0.01	3.46	<0.01	<0.01	0.05	12.30	101.10	0.11	3.76	3.45	2.45	0.89	1.54	2.57	2.65
Pulp Duplicates																				
3200567	Drill Core	2.55	0.04	0.53	0.02	<0.01	2.19	<0.01	0.02	0.01	10.81	99.35	0.05	5.06	5.74	5.03	0.03	<0.08	5.40	1.03
REP 3200567	QC	0.03																		
3200575	Drill Core	2.23	0.05	0.46	0.16	<0.01	1.07	<0.01	0.01	0.05	8.18	99.71	0.07	4.20	3.90	3.87	0.30	0.13	3.82	0.23
REP 3200575	QC																			
3200576	Drill Core	2.18	0.05	0.48	0.19	<0.01	1.06	<0.01	0.02	0.02	6.77	98.81	0.08	3.39	2.92	3.12	0.23	0.15	2.86	0.18
REP 3200576	QC	3.40 2.96																		
3200580	Rock	1.42	0.16	0.53	0.13	<0.01	0.06	<0.01	<0.01	<0.01	0.92	98.85	0.03	<0.02	<0.02	<0.02	<0.02	<0.08	<0.05	0.13
REP 3200580	QC	1.43	0.16	0.53	0.13	<0.01	0.07	<0.01	<0.01	<0.01	0.92	98.69	0.02							
3200583	Drill Core	2.32	0.04	0.47	0.07	<0.01	1.08	<0.01	0.01	0.02	7.65	99.50	0.08	4.63	2.40	4.21	0.41	<0.08	2.35	0.15
REP 3200583	QC	<0.08																		
3200586	Drill Core	2.38	0.03	0.52	0.14	0.01	1.16	<0.01	0.02	0.01	6.89	99.46	0.09	3.20	3.19	2.50	0.69	<0.08	3.12	0.20
REP 3200586	QC	2.38	0.03	0.52	0.14	0.01	1.16	<0.01	0.02	0.01	6.89	99.54	0.09							
3200590	Drill Core	2.19	0.03	0.47	0.11	<0.01	1.14	<0.01	0.01	0.02	6.35	99.79	0.11	3.51	2.12	2.97	0.52	<0.08	2.07	0.16
REP 3200590	QC	0.48																		
3200594	Drill Core	1.67	0.03	0.40	0.18	<0.01	1.02	<0.01	<0.01	0.11	5.32	99.45	0.13	2.67	1.42	2.15	0.52	<0.08	1.35	0.24
REP 3200594	QC	0.24																		
3200609	Drill Core	0.04	0.04	0.26	0.33	<0.01	5.22	0.02	0.87	4.48	7.60	98.52	0.09	2.73	4.99	1.37	1.33	0.10	2.16	8.47
REP 3200609	QC																			
3200610	Drill Core	<0.01	0.03	0.33	0.33	0.01	2.30	<0.01	0.37	6.07	6.74	99.90	0.11	1.30	5.13	0.90	0.38	<0.08	1.99	9.42
REP 3200610	QC	1.30 4.97																		
3200613	Drill Core	<0.01	0.05	0.06	0.08	<0.01	38.22	0.01	0.68	6.48	3.69	77.78	0.01	0.15	12.56	0.07	<0.02	0.31	0.70	35.58
REP 3200613	QC	<0.01	0.06	0.06	0.08	<0.01	38.37	<0.01	0.69	6.57	3.69	78.19	0.02							
3200617	Drill Core	0.67	0.10	0.36	0.31	0.02	6.65	<0.01	0.01	0.11	7.53	99.86	0.12	3.65	2.72	2.32	1.15	0.65	2.34	1.15
REP 3200617	QC	0.65																		
3200620	Rock Pulp	4.14	0.25	0.28	0.11	<0.01	0.08	0.02	1.79	3.06	13.90	97.46	<0.01	3.33	4.64	0.51	<0.02	10.34	2.20	7.33
REP 3200620	QC	4.22	0.26	0.30	0.11	<0.01	0.08	0.02	1.83	3.11	13.90	98.85	<0.01							



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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
3200625	Drill Core	2.50	13.4	81.4	245.7	489	1.3	63.1	9.0	1679	5.79	40	1.9	3.7	40	<0.5	17.1	<0.5	87	0.17	0.085
REP 3200625	QC																				
3200629	Drill Core	6.92	17.8	76.2	122.9	145	1.4	82.9	5.3	223	4.33	46	2.8	4.0	47	<0.5	19.9	<0.5	100	0.24	0.121
REP 3200629	QC																				
Core Reject Duplicates																					
3200577	Drill Core	4.91	31.4	75.9	89.3	248	0.9	105.6	14.4	49	2.94	44	8.2	4.6	65	42.3	12.8	<0.5	48	0.01	0.052
DUP 3200577	QC		31.8	74.6	88.3	247	0.8	111.2	15.9	51	2.95	46	8.3	4.9	63	42.9	13.0	<0.5	49	0.01	0.053
3200611	Drill Core	5.07	9.5	31.5	3805.2	80281	0.6	35.9	4.8	302	1.47	27	2.3	2.0	51	13.6	7.0	<0.5	384	0.15	0.089
DUP 3200611	QC		10.0	30.3	3634.5	78412	0.6	36.8	5.0	313	1.51	27	2.3	1.8	50	13.5	7.2	<0.5	395	0.15	0.085
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
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 GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.2	307.0	17491.1	28629	54.5	37.7	28.4	4064	8.98	952	9.6	11.2	26	66.7	40.4	5.1	30	1.86	0.090
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				



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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	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
3200625	Drill Core	10.1	13.9	0.03	734	0.003	1.31	<0.01	0.13	1.4	0.13	1.6	2.1	2.43	<5	6	69.72	6.97	8.54	0.24	0.26
REP 3200625	QC																				
3200629	Drill Core	8.9	15.9	0.02	763	0.005	1.14	<0.01	0.18	<0.5	0.15	2.6	0.9	3.86	<5	9	72.09	7.59	6.48	0.35	0.29
REP 3200629	QC																71.69	7.55	6.42	0.35	0.30
Core Reject Duplicates																					
3200577	Drill Core	11.2	13.8	0.02	963	0.004	0.52	<0.01	0.18	<0.5	0.14	1.8	1.5	3.03	<5	5	72.40	9.60	4.28	0.03	0.48
DUP 3200577	QC	11.6	14.3	0.02	1381	0.004	0.55	<0.01	0.20	<0.5	0.21	2.3	1.5	3.01	<5	3	72.38	9.64	4.27	0.03	0.48
3200611	Drill Core	7.7	67.3	<0.01	322	0.097	0.92	<0.01	<0.01	<0.5	1.30	1.7	2.1	4.64	6	7	41.58	3.32	2.10	0.21	0.04
DUP 3200611	QC	7.3	65.0	<0.01	309	0.100	0.90	<0.01	<0.01	<0.5	1.25	1.7	2.1	4.57	6	3	41.48	3.29	2.14	0.22	0.03
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
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 GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	40.7	28.6	0.84	371	0.028	1.15	0.02	0.52	3.0	1.26	3.2	6.3	7.21	<5	<2					
STD OREAS133B(D)	Standard																34.66	7.16	11.58	5.32	3.88
STD OREAS133B(D)	Standard																34.67	7.17	11.59	5.29	3.84
STD OREAS133B(D)	Standard																34.72	7.20	11.65	5.30	3.82



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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	
3200625	Drill Core	1.03	0.24	0.35	0.19	0.01	3.19	<0.01	0.02	0.05	8.23	99.47	0.10	3.33	3.13	1.67	1.09	2.10	2.74	1.18	
REP 3200625	QC	1.26																			
3200629	Drill Core	1.47	0.05	0.41	0.28	<0.01	2.34	<0.01	<0.01	0.02	7.53	99.19	0.13	3.34	4.22	2.33	0.94	0.24	4.10	0.36	
REP 3200629	QC	1.46	0.04	0.40	0.28	0.01	2.35	0.02	<0.01	0.01	7.53	98.71	0.14								0.33
Core Reject Duplicates																					
3200577	Drill Core	2.24	0.02	0.48	0.14	<0.01	1.27	<0.01	0.02	0.03	7.64	98.82	0.07	4.04	3.15	3.66	0.38	<0.08	3.03	0.37	
DUP 3200577	QC	2.26	0.03	0.47	0.14	0.01	1.26	<0.01	0.02	0.02	7.74	98.96	0.06	4.05	3.05	3.57	0.47	<0.08	2.92	0.40	
3200611	Drill Core	<0.01	0.06	0.21	0.19	<0.01	22.41	<0.01	0.38	7.83	5.76	88.73	0.07	0.17	9.88	0.09	<0.02	0.27	1.23	25.95	
DUP 3200611	QC	<0.01	0.06	0.20	0.19	<0.01	21.92	<0.01	0.37	7.57	5.80	87.74	0.06	0.17	9.59	0.09	<0.02	0.26	0.98	25.83	
Reference Materials																					
STD COO1	Standard																		2.40		
STD COO1	Standard																		2.39		
STD COO1	Standard																		2.37		
STD COO1	Standard																		2.25		
STD COO1	Standard																		2.34		
STD COO1	Standard																		2.29		
STD GGC-10	Standard																		4.73		
STD GGC-10	Standard																		4.41		
STD GGC-10	Standard																		4.67		
STD GGC-10	Standard																		4.02		
STD GGC-10	Standard																		4.33		
STD GS311-1	Standard														0.98	2.21					
STD GS311-1	Standard														1.07	2.32					
STD GS910-4	Standard														2.68	7.78					
STD GS910-4	Standard														2.84	8.09					
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.46	0.16	0.23	0.11	<0.01	0.07	0.06	5.06	11.40	13.03	99.56	0.01								
STD OREAS133B(D)	Standard	3.44	0.16	0.23	0.12	<0.01	0.09	0.05	5.08	11.36	13.03	99.50	<0.01								
STD OREAS133B(D)	Standard	3.50	0.16	0.21	0.12	<0.01	0.07	0.06	5.08	11.36	13.03	99.69	<0.01								



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		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 OREAS605	Standard		4.9	49472.9	901.6	2144	>1000	1574.0	96.0	88	3.83	1662	0.9	2.5	49	14.6	299.2	19.0	17	0.18	0.010
STD OREAS605	Standard		4.6	48798.1	896.8	2091	971.7	1557.1	98.3	93	3.79	1660	1.0	2.4	51	13.9	310.9	19.4	<10	0.18	0.010
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.0	10996.7	208.2	721	4.4	31.9	30.8	1140	8.14	13	1.5	13.4	13	1.0	1.1	64.3	55	0.29	0.056
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
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 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 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 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 COO1 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD GGC-10 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



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		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	LF725 Fe2O3 % 0.01	LF725 CaO % 0.01	LF725 MgO % 0.01
STD OREAS605	Standard	7.4	28.5	0.03	207	0.010	0.76	0.03	0.14	7.7	1.83	1.2	16.7	7.90	7	78					
STD OREAS605	Standard	8.2	29.2	0.03	223	0.012	0.79	0.03	0.15	7.0	1.66	1.2	15.7	7.72	7	81					
STD OREAS72B	Standard																51.03	8.91	10.00	3.97	16.02
STD OREAS72B	Standard																51.16	8.89	9.95	3.97	15.97
STD OREAS72B	Standard																51.19	8.99	10.04	3.99	16.07
STD OREAS927-AR	Standard	26.0	42.6	1.96	46	0.079	3.32	<0.01	0.29	4.8	0.13	4.0	<0.5	1.74	9	17					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																50.06	20.73	6.20	8.02	0.53
STD SY-4(D)	Standard																50.01	20.74	6.20	8.00	0.53
STD SY-4(D)	Standard																49.93	20.68	6.19	7.97	0.53
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD RTS-3A Expected																					
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 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 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 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
STD GGC-10 Expected																					
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					



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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	
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.33	0.15	0.34	0.05	0.15	0.04	0.02	<0.01	<0.01	5.12	98.45	0.01								
STD OREAS72B	Standard	1.31	0.15	0.35	0.05	0.14	0.03	0.02	<0.01	<0.01	5.12	98.47	0.01								
STD OREAS72B	Standard	1.33	0.15	0.36	0.06	0.15	0.03	0.02	<0.01	0.01	5.12	98.82	0.01								
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard	1.67	0.11	0.30	0.14	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.53	<0.01								
STD SY-4(D)	Standard	1.67	0.11	0.30	0.14	<0.01	0.05	<0.01	0.01	0.01	4.56	99.43	<0.01								
STD SY-4(D)	Standard	1.67	0.11	0.29	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.27	<0.01								
STD GS311-1 Expected														1.02	2.35						
STD GS910-4 Expected														2.65	8.27						
STD RTS-3A Expected																					
STD OREAS927-AR Expected																					
STD OREAS605 Expected																					
STD OREAS135 Expected																					
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										
STD GGC-10 Expected																	4.79				
BLK	Blank													<0.02	<0.02						
BLK	Blank													<0.02	<0.02						
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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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
BLK	Blank		<0.5	<0.5	0.9	8	<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																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.9	4.3	1.3	44	<0.5	1.2	4.0	547	2.13	<5	<0.5	3.2	21	<0.5	<0.5	<0.5	33	0.66	0.043
ROCK-WHI	Prep Blank		0.8	4.8	1.2	28	<0.5	1.2	4.0	521	2.08	<5	<0.5	2.6	26	<0.5	<0.5	<0.5	34	0.66	0.037



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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	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
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.06	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.53	0.32	<0.01	0.01	0.02
BLK	Blank																				
SI BLK	Blank																98.99	0.33	<0.01	0.02	0.02
SI BLK	Blank																99.09	0.32	0.02	<0.01	0.02
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	7.0	2.8	0.49	63	0.096	0.96	0.11	0.11	<0.5	<0.05	3.0	<0.5	<0.05	<5	<2	70.54	13.96	3.53	2.38	0.94
ROCK-WHI	Prep Blank	6.2	2.2	0.50	65	0.098	1.01	0.11	0.10	<0.5	<0.05	2.4	<0.5	<0.05	<5	<2	70.77	14.06	3.44	2.41	0.96



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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
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.89	<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	99.38	<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	99.49	<0.01							
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	1.99	0.11	0.37	0.09	<0.01	0.10	<0.01	<0.01	<0.01	0.85	99.48	0.01	0.09	<0.02	0.06	<0.02	0.09	<0.05	0.13
ROCK-WHI	Prep Blank	1.86	0.11	0.35	0.10	<0.01	0.08	<0.01	0.01	<0.01	0.76	99.57	<0.01	0.09	<0.02	0.02	<0.02	0.22	<0.05	0.12