



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://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: September 24, 2018  
Report Date: November 18, 2018  
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## CERTIFICATE OF ANALYSIS

WHI18000981.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-030  
P.O. Number  
Number of Samples: 28

### SAMPLE DISPOSAL

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

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

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	28	Crush, split and pulverize 500g rock to 200 mesh			WHI
CRUBW	28	Extra clean rock wash between samples in crusher			WHI
PULSW	28	Extra Wash with Silica between each sample			WHI
FA330	28	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	28	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	28	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	28	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	28	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	28	Analysis by Leco	0.1	Completed	VAN
SHP01	28	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS

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

CC:



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



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# CERTIFICATE OF ANALYSIS

WHI18000981.1

	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
3207258	Drill Core	5.77	11	<3	3	3.6	72.0	39.2	51	0.8	51.2	9.9	578	2.74	9	1.2	6.9	24	<0.5	4.0	<0.5
3207259	Drill Core	3.59	13	<3	6	4.6	74.0	46.7	35	0.7	58.6	9.6	1013	3.12	11	1.6	5.9	32	<0.5	4.0	<0.5
3207260	Drill Core	3.75	8	<3	8	4.6	60.7	122.2	20	0.9	60.6	9.8	967	3.59	18	1.4	5.5	9	<0.5	5.6	<0.5
3207261	Drill Core	3.50	8	<3	5	3.7	146.2	535.9	36	2.8	83.5	14.3	1661	6.53	25	3.8	3.4	20	<0.5	14.1	<0.5
3207262	Drill Core	1.30	9	<3	3	2.9	148.3	790.7	50	3.5	104.8	14.3	2062	6.94	23	6.2	2.4	30	<0.5	16.8	<0.5
3207263	Drill Core	3.75	15	<3	9	6.7	88.6	1943.6	5832	5.1	80.0	12.2	808	4.77	38	3.0	5.6	12	28.8	19.8	<0.5
3207264	Drill Core	3.86	15	<3	8	8.4	61.6	5599.1	34001	7.4	47.8	12.8	807	3.93	23	2.5	6.5	12	194.7	26.3	<0.5
3207265	Drill Core	4.74	3	<3	3	1.0	198.5	>40000	48938	44.8	7.2	2.6	2999	10.45	6	0.5	0.5	<5	323.8	72.8	<0.5
3207266	Drill Core	6.77	10	<3	<2	<0.5	302.2	>40000	68075	89.8	15.5	15.8	5246	31.33	70	1.1	<0.5	14	487.7	149.1	<0.5
3207267	Drill Core	4.73	10	<3	4	1.6	198.7	>40000	70791	122.9	47.3	15.0	2986	17.70	35	2.7	1.1	<5	530.2	181.9	<0.5
3207268	Drill Core	4.35	3	<3	<2	2.5	155.3	30462.8	58555	28.6	16.0	7.3	2290	8.62	23	1.1	2.1	6	395.7	46.3	<0.5
3207269	Drill Core	5.47	11	<3	4	2.8	191.3	>40000	132626	109.1	38.6	16.1	2347	18.34	56	2.3	2.5	6	887.0	167.4	<0.5
3207270	Drill Core	2.69	5	<3	4	5.8	90.3	>40000	34767	42.6	56.2	25.1	2338	9.99	45	2.6	6.0	14	261.2	72.5	<0.5
3207271	Drill Core	4.84	7	<3	4	0.8	217.4	>40000	68436	135.4	18.5	8.4	6865	24.11	8	0.9	<0.5	6	504.5	215.3	<0.5
3207272	Drill Core	4.98	5	<3	2	3.6	250.3	>40000	54920	97.8	29.7	13.4	2939	17.46	44	1.4	3.5	11	479.9	151.0	<0.5
3207273	Drill Core	5.30	11	<3	5	0.7	294.4	>40000	18379	114.2	13.1	7.7	6213	33.86	54	1.6	<0.5	15	141.2	184.9	<0.5
3207274	Drill Core	6.51	9	<3	4	0.6	379.8	>40000	43042	159.3	16.6	5.8	5773	29.17	39	0.6	<0.5	6	384.2	242.9	<0.5
3207275	Drill Core	4.83	10	<3	5	2.3	161.3	>40000	80944	115.0	36.3	12.9	1439	17.74	78	3.1	1.8	9	601.1	198.9	<0.5
3207276	Drill Core	5.14	9	<3	3	0.6	256.7	>40000	33734	137.1	10.2	4.2	1585	31.34	113	0.5	<0.5	<5	242.7	251.0	<0.5
3207277	Drill Core	3.84	10	<3	<2	3.2	273.3	>40000	11308	97.3	137.7	8.3	5055	27.05	67	14.0	1.3	7	79.3	176.3	<0.5
3207278	Rock	0.83	<2	<3	<2	0.9	5.5	139.4	60	<0.5	1.6	4.9	630	2.05	<5	<0.5	2.1	28	<0.5	<0.5	<0.5
3207279	Drill Core	4.75	9	<3	2	1.9	460.7	>40000	5151	45.5	86.7	7.1	4351	20.19	30	3.6	1.3	6	28.2	83.8	<0.5
3207280	Drill Core	3.56	14	<3	4	5.9	324.2	>40000	6087	33.9	54.4	14.6	3371	15.68	<5	3.1	4.1	13	38.2	63.7	<0.5
3207281	Drill Core	3.07	5	<3	<2	2.5	174.5	3287.7	512	4.5	56.1	9.8	3538	9.09	42	6.3	1.1	99	1.7	14.0	<0.5
3207282	Drill Core	6.03	9	<3	6	5.2	74.1	191.6	234	<0.5	60.4	9.6	1879	6.05	11	3.1	4.5	16	0.6	3.7	<0.5
3207283	Drill Core	4.51	9	<3	6	5.9	80.8	169.7	28	0.7	57.8	9.1	1429	4.81	29	1.7	4.8	66	<0.5	5.9	<0.5
3207284	Drill Core	4.67	7	<3	6	3.7	72.0	128.2	73	0.7	42.7	8.4	1517	4.69	15	3.1	4.9	35	<0.5	4.5	<0.5
3207285	Drill Core	7.98	14	<3	6	5.0	78.9	306.5	1771	1.7	83.4	11.6	1648	5.10	11	5.5	5.3	35	4.6	9.1	<0.5



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WHI18000981.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
3207258	Drill Core	28	0.55	0.049	17.3	10.2	0.25	211	0.002	0.55	<0.01	0.24	<0.5	<0.05	2.6	<0.5	1.08	<5	3	73.20	11.30
3207259	Drill Core	28	0.62	0.050	14.9	7.9	0.29	187	0.001	0.37	<0.01	0.23	<0.5	0.10	2.9	<0.5	1.12	<5	4	73.10	10.20
3207260	Drill Core	31	0.15	0.054	15.7	8.1	0.20	195	0.002	0.37	<0.01	0.23	<0.5	0.07	2.3	<0.5	1.34	<5	4	74.10	9.93
3207261	Drill Core	28	0.40	0.048	8.8	6.6	0.33	137	0.001	0.27	<0.01	0.15	<0.5	<0.05	2.2	<0.5	3.12	<5	7	72.90	6.11
3207262	Drill Core	24	0.67	0.044	6.8	6.3	0.43	105	0.001	0.22	<0.01	0.11	<0.5	0.08	2.6	<0.5	3.09	<5	7	73.60	4.66
3207263	Drill Core	30	0.16	0.062	12.0	8.2	0.11	256	0.002	0.36	<0.01	0.22	<0.5	2.67	2.5	0.6	3.37	<5	3	69.60	10.40
3207264	Drill Core	29	0.14	0.058	14.0	7.9	0.11	262	0.002	0.38	<0.01	0.24	0.9	15.43	2.0	<0.5	4.01	<5	4	66.90	10.80
3207265	Drill Core	11	0.05	0.009	1.8	2.8	0.34	63	<0.001	0.09	<0.01	0.05	<0.5	29.85	1.2	<0.5	6.90	<5	<2	61.50	1.61
3207266	Drill Core	20	0.76	<0.001	0.5	1.8	0.69	47	<0.001	0.07	<0.01	0.02	<0.5	52.49	1.3	0.7	25.11	<5	<2	9.91	0.51
3207267	Drill Core	22	0.13	0.014	3.1	4.4	0.29	132	<0.001	0.14	<0.01	0.07	<0.5	45.65	1.9	0.7	16.13	<5	<2	33.60	2.39
3207268	Drill Core	17	0.08	0.026	6.5	5.6	0.23	163	<0.001	0.21	<0.01	0.12	<0.5	36.78	1.3	<0.5	7.27	<5	2	64.90	4.20
3207269	Drill Core	23	0.14	0.020	4.1	5.1	0.22	135	<0.001	0.19	<0.01	0.09	<0.5	77.61	1.4	1.3	19.93	<5	4	26.10	3.38
3207270	Drill Core	23	0.21	0.062	10.9	7.1	0.24	242	0.001	0.33	<0.01	0.19	<0.5	21.87	1.5	4.1	6.62	<5	6	51.20	10.60
3207271	Drill Core	15	0.45	<0.001	1.0	1.8	0.69	54	<0.001	0.06	<0.01	0.02	<0.5	38.47	1.2	0.7	12.96	<5	<2	17.90	0.62
3207272	Drill Core	21	0.28	0.037	6.2	4.6	0.33	212	<0.001	0.27	<0.01	0.14	<0.5	38.20	1.5	1.5	14.66	<5	4	34.50	6.11
3207273	Drill Core	12	0.86	0.001	<0.5	1.2	0.76	33	<0.001	0.05	<0.01	<0.01	<0.5	14.61	1.0	<0.5	23.07	<5	<2	10.40	0.34
3207274	Drill Core	11	0.32	0.002	<0.5	1.5	0.58	45	<0.001	0.05	<0.01	<0.01	<0.5	32.39	<0.5	0.6	19.86	<5	<2	11.00	0.39
3207275	Drill Core	23	0.17	0.024	3.9	5.4	0.17	173	<0.001	0.24	<0.01	0.11	<0.5	54.78	0.6	1.1	21.62	<5	2	28.30	3.06
3207276	Drill Core	16	0.11	0.006	<0.5	2.3	0.13	27	<0.001	0.05	<0.01	<0.01	<0.5	25.33	0.7	1.4	>30	<5	2	8.04	0.27
3207277	Drill Core	32	0.27	0.010	3.2	6.0	0.48	125	0.003	0.25	<0.01	0.09	<0.5	6.39	2.3	0.9	18.66	<5	<2	22.40	2.28
3207278	Rock	29	0.76	0.044	6.4	4.1	0.55	53	0.107	1.03	0.07	0.10	<0.5	0.09	4.2	<0.5	0.06	<5	<2	70.10	14.20
3207279	Drill Core	26	0.16	0.019	3.9	7.2	0.47	83	<0.001	0.24	<0.01	0.08	<0.5	2.17	2.2	0.7	11.83	<5	<2	43.70	2.97
3207280	Drill Core	34	0.31	0.059	7.8	7.9	0.43	153	0.001	0.32	<0.01	0.14	<0.5	2.15	3.1	<0.5	6.75	<5	5	44.80	9.26
3207281	Drill Core	30	1.89	0.085	3.5	6.7	0.60	59	<0.001	0.15	<0.01	0.07	<0.5	0.17	3.1	<0.5	3.14	<5	<2	68.40	2.47
3207282	Drill Core	40	0.25	0.050	12.2	12.4	0.26	125	0.002	0.38	<0.01	0.17	<0.5	0.11	2.9	<0.5	1.59	<5	<2	70.30	8.73
3207283	Drill Core	32	1.23	0.056	11.0	13.6	0.36	129	0.002	0.47	<0.01	0.17	<0.5	0.07	2.1	<0.5	2.18	<5	4	71.30	8.55
3207284	Drill Core	42	0.61	0.050	13.7	15.9	0.31	115	0.002	0.59	<0.01	0.16	<0.5	0.08	3.5	<0.5	1.41	<5	3	72.30	9.18
3207285	Drill Core	41	0.65	0.052	12.5	15.6	0.31	143	0.002	0.65	<0.01	0.18	<0.5	0.08	2.6	<0.5	1.54	<5	5	70.00	9.68



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	TC006	TC000	TC000
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02
3207258	Drill Core	4.26	0.77	0.64	2.72	0.09	0.61	0.12	0.02	0.23	<0.01	<0.01	<0.01	4.92	98.99	1.60	1.67	1.04
3207259	Drill Core	4.95	0.88	0.70	2.51	0.14	0.54	0.12	0.01	0.21	<0.01	<0.01	<0.01	5.30	98.77	2.28	1.83	1.15
3207260	Drill Core	5.54	0.25	0.55	2.48	0.14	0.54	0.13	0.01	0.21	<0.01	<0.01	<0.01	5.42	99.42	1.84	1.90	1.33
3207261	Drill Core	9.69	0.63	0.68	1.49	0.22	0.34	0.12	<0.01	0.13	0.01	0.05	<0.01	6.72	99.17	2.98	1.92	3.06
3207262	Drill Core	10.40	0.94	0.80	1.12	0.26	0.25	0.10	<0.01	0.10	0.01	0.07	<0.01	6.75	99.14	3.89	1.89	3.08
3207263	Drill Core	7.54	0.23	0.37	2.60	0.12	0.57	0.15	0.01	0.25	<0.01	0.18	0.58	6.28	99.15	1.50	1.74	3.44
3207264	Drill Core	6.09	0.22	0.39	2.70	0.11	0.62	0.14	0.01	0.27	<0.01	0.54	3.29	5.98	99.01	1.32	1.64	3.96
3207265	Drill Core	14.80	0.10	0.56	0.37	0.39	0.06	0.02	<0.01	0.04	0.02	4.94	4.84	8.73	99.55	4.74	1.63	6.79
3207266	Drill Core	43.50	1.05	1.11	0.12	0.67	0.02	0.02	<0.01	<0.01	0.02	9.56	6.76	24.56	100.19	8.91	3.08	25.45
3207267	Drill Core	24.30	0.20	0.48	0.57	0.39	0.11	0.04	<0.01	0.05	0.02	13.28	6.88	13.78	98.83	4.62	1.63	15.84
3207268	Drill Core	11.50	0.13	0.40	1.03	0.28	0.23	0.06	<0.01	0.12	0.01	2.80	5.40	6.75	99.38	2.72	0.98	6.90
3207269	Drill Core	24.70	0.20	0.39	0.82	0.31	0.23	0.06	<0.01	0.09	0.03	11.42	12.69	15.06	99.47	3.41	1.30	19.83
3207270	Drill Core	14.40	0.33	0.53	2.62	0.30	0.59	0.14	<0.01	0.30	<0.01	4.73	3.46	8.65	99.17	3.36	1.37	6.50
3207271	Drill Core	34.30	0.60	1.12	0.15	0.87	0.03	0.01	<0.01	<0.01	0.02	15.88	6.94	18.22	99.57	11.33	3.84	12.87
3207272	Drill Core	23.80	0.37	0.56	1.47	0.38	0.36	0.09	<0.01	0.18	0.02	10.03	5.32	13.66	98.95	4.27	1.62	14.51
3207273	Drill Core	46.50	1.17	1.20	0.07	0.79	<0.01	0.02	<0.01	<0.01	0.01	12.35	1.81	24.30	100.35	10.77	3.55	21.47
3207274	Drill Core	40.00	0.44	0.89	0.09	0.73	<0.01	0.02	<0.01	<0.01	0.03	19.59	4.29	19.94	99.97	7.75	3.12	18.71
3207275	Drill Core	24.30	0.26	0.30	0.73	0.20	0.18	0.05	<0.01	0.08	0.01	16.06	7.86	14.06	98.64	1.91	0.82	20.99
3207276	Drill Core	44.30	0.16	0.18	0.05	0.23	<0.01	0.02	<0.01	<0.01	0.02	17.73	3.42	24.22	100.82	2.39	0.91	33.89
3207277	Drill Core	36.70	0.40	0.80	0.53	0.64	0.12	0.04	<0.01	0.04	<0.01	12.91	1.12	19.31	98.58	8.49	2.85	18.75
3207278	Rock	3.52	2.43	1.09	1.96	0.11	0.39	0.10	<0.01	0.09	<0.01	0.01	<0.01	1.18	99.72	0.16	0.10	0.05
3207279	Drill Core	28.40	0.25	0.81	0.65	0.57	0.15	0.05	<0.01	0.05	0.03	5.86	0.51	15.02	99.65	7.11	2.49	11.59
3207280	Drill Core	22.00	0.45	0.83	2.23	0.43	0.51	0.14	<0.01	0.17	0.03	4.26	0.60	13.48	99.77	7.23	3.23	6.44
3207281	Drill Core	13.20	2.70	1.03	0.58	0.45	0.12	0.19	<0.01	0.05	0.01	0.31	0.05	8.09	97.73	6.48	2.99	3.18
3207282	Drill Core	9.15	0.39	0.58	2.12	0.26	0.50	0.14	<0.01	0.15	<0.01	0.02	0.02	6.89	99.37	3.29	2.22	1.60
3207283	Drill Core	7.15	1.73	0.74	2.08	0.19	0.50	0.14	<0.01	0.14	<0.01	0.02	<0.01	6.04	98.71	2.84	2.14	2.10
3207284	Drill Core	7.26	0.87	0.67	2.15	0.21	0.54	0.12	0.01	0.14	<0.01	0.01	<0.01	5.60	99.19	2.34	1.97	1.43
3207285	Drill Core	7.76	0.91	0.66	2.32	0.23	0.54	0.12	0.01	0.15	<0.01	0.03	0.17	6.02	98.76	2.69	2.19	1.52



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	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
3207278	Rock	0.83	<2	<3	<2	0.9	5.5	139.4	60	<0.5	1.6	4.9	630	2.05	<5	<0.5	2.1	28	<0.5	<0.5	<0.5
Pulp Duplicates																					
3207260	Drill Core	3.75	8	<3	8	4.6	60.7	122.2	20	0.9	60.6	9.8	967	3.59	18	1.4	5.5	9	<0.5	5.6	<0.5
REP 3207260	QC																				
3207263	Drill Core	3.75	15	<3	9	6.7	88.6	1943.6	5832	5.1	80.0	12.2	808	4.77	38	3.0	5.6	12	28.8	19.8	<0.5
REP 3207263	QC		14	<3	8																
3207266	Drill Core	6.77	10	<3	<2	<0.5	302.2	>40000	68075	89.8	15.5	15.8	5246	31.33	70	1.1	<0.5	14	487.7	149.1	<0.5
REP 3207266	QC																				
REP 3207270	QC																				
3207275	Drill Core	4.83	10	<3	5	2.3	161.3	>40000	80944	115.0	36.3	12.9	1439	17.74	78	3.1	1.8	9	601.1	198.9	<0.5
REP 3207275	QC		9	<3	3																
3207279	Drill Core	4.75	9	<3	2	1.9	460.7	>40000	5151	45.5	86.7	7.1	4351	20.19	30	3.6	1.3	6	28.2	83.8	<0.5
REP 3207279	QC					2.4	478.9	>40000	5225	45.6	85.7	6.7	4446	20.43	29	3.7	1.4	6	28.3	84.0	<0.5
3207280	Drill Core	3.56	14	<3	4	5.9	324.2	>40000	6087	33.9	54.4	14.6	3371	15.68	<5	3.1	4.1	13	38.2	63.7	<0.5
REP 3207280	QC																				
3207283	Drill Core	4.51	9	<3	6	5.9	80.8	169.7	28	0.7	57.8	9.1	1429	4.81	29	1.7	4.8	66	<0.5	5.9	<0.5
REP 3207283	QC																				
Core Reject Duplicates																					
3207270	Drill Core	2.69	5	<3	4	5.8	90.3	>40000	34767	42.6	56.2	25.1	2338	9.99	45	2.6	6.0	14	261.2	72.5	<0.5
DUP 3207270	QC		6	<3	4	6.3	90.8	>40000	32882	41.6	57.7	26.8	2231	9.89	50	2.7	6.2	15	251.9	74.4	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM398-4-AR	Standard					928.5	3904.3	11554.3	5322	50.4	4305.5	2064.0	5190	3.78	6	0.7	0.8	14	9.6	7.1	13.4
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				



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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	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
3207278	Rock	29	0.76	0.044	6.4	4.1	0.55	53	0.107	1.03	0.07	0.10	<0.5	0.09	4.2	<0.5	0.06	<5	<2	70.10	14.20
Pulp Duplicates																					
3207260	Drill Core	31	0.15	0.054	15.7	8.1	0.20	195	0.002	0.37	<0.01	0.23	<0.5	0.07	2.3	<0.5	1.34	<5	4	74.10	9.93
REP 3207260	QC																				
3207263	Drill Core	30	0.16	0.062	12.0	8.2	0.11	256	0.002	0.36	<0.01	0.22	<0.5	2.67	2.5	0.6	3.37	<5	3	69.60	10.40
REP 3207263	QC																				
3207266	Drill Core	20	0.76	<0.001	0.5	1.8	0.69	47	<0.001	0.07	<0.01	0.02	<0.5	52.49	1.3	0.7	25.11	<5	<2	9.91	0.51
REP 3207266	QC																				
REP 3207270	QC																			51.80	10.90
3207275	Drill Core	23	0.17	0.024	3.9	5.4	0.17	173	<0.001	0.24	<0.01	0.11	<0.5	54.78	0.6	1.1	21.62	<5	2	28.30	3.06
REP 3207275	QC																				
3207279	Drill Core	26	0.16	0.019	3.9	7.2	0.47	83	<0.001	0.24	<0.01	0.08	<0.5	2.17	2.2	0.7	11.83	<5	<2	43.70	2.97
REP 3207279	QC	26	0.17	0.019	4.0	6.1	0.47	87	<0.001	0.24	<0.01	0.08	<0.5	2.28	2.0	0.7	12.00	<5	<2		
3207280	Drill Core	34	0.31	0.059	7.8	7.9	0.43	153	0.001	0.32	<0.01	0.14	<0.5	2.15	3.1	<0.5	6.75	<5	5	44.80	9.26
REP 3207280	QC																			44.60	9.20
3207283	Drill Core	32	1.23	0.056	11.0	13.6	0.36	129	0.002	0.47	<0.01	0.17	<0.5	0.07	2.1	<0.5	2.18	<5	4	71.30	8.55
REP 3207283	QC																				
Core Reject Duplicates																					
3207270	Drill Core	23	0.21	0.062	10.9	7.1	0.24	242	0.001	0.33	<0.01	0.19	<0.5	21.87	1.5	4.1	6.62	<5	6	51.20	10.60
DUP 3207270	QC	22	0.23	0.059	11.4	6.5	0.23	234	0.001	0.31	<0.01	0.18	<0.5	20.35	1.4	4.4	6.56	<5	3	51.90	10.90
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM398-4-AR	Standard	26	0.34	0.020	2.6	2005.7	0.12	20	0.111	0.49	0.24	0.11	3.1	3.01	1.2	<0.5	0.95	<5	<2		
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				



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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	
	Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3207278	Rock	3.52	2.43	1.09	1.96	0.11	0.39	0.10	<0.01	0.09	<0.01	0.01	<0.01	1.18	99.72	0.16	0.10	0.05	
Pulp Duplicates																			
3207260	Drill Core	5.54	0.25	0.55	2.48	0.14	0.54	0.13	0.01	0.21	<0.01	<0.01	<0.01	5.42	99.42	1.84	1.90	1.33	
REP 3207260	QC																1.85	1.31	
3207263	Drill Core	7.54	0.23	0.37	2.60	0.12	0.57	0.15	0.01	0.25	<0.01	0.18	0.58	6.28	99.15	1.50	1.74	3.44	
REP 3207263	QC																		
3207266	Drill Core	43.50	1.05	1.11	0.12	0.67	0.02	0.02	<0.01	<0.01	0.02	9.56	6.76	24.56	100.19	8.91	3.08	25.45	
REP 3207266	QC																3.10	25.09	
REP 3207270	QC	14.10	0.34	0.52	2.70	0.29	0.61	0.15	0.01	0.32	0.01	4.53	3.23	8.49	99.23				
3207275	Drill Core	24.30	0.26	0.30	0.73	0.20	0.18	0.05	<0.01	0.08	0.01	16.06	7.86	14.06	98.64	1.91	0.82	20.99	
REP 3207275	QC																		
3207279	Drill Core	28.40	0.25	0.81	0.65	0.57	0.15	0.05	<0.01	0.05	0.03	5.86	0.51	15.02	99.65	7.11	2.49	11.59	
REP 3207279	QC																		
3207280	Drill Core	22.00	0.45	0.83	2.23	0.43	0.51	0.14	<0.01	0.17	0.03	4.26	0.60	13.48	99.77	7.23	3.23	6.44	
REP 3207280	QC	21.80	0.45	0.83	2.22	0.43	0.50	0.14	<0.01	0.16	0.02	4.22	0.60	13.48	99.22				
3207283	Drill Core	7.15	1.73	0.74	2.08	0.19	0.50	0.14	<0.01	0.14	<0.01	0.02	<0.01	6.04	98.71	2.84	2.14	2.10	
REP 3207283	QC																2.45		
Core Reject Duplicates																			
3207270	Drill Core	14.40	0.33	0.53	2.62	0.30	0.59	0.14	<0.01	0.30	<0.01	4.73	3.46	8.65	99.17	3.36	1.37	6.50	
DUP 3207270	QC	14.10	0.34	0.51	2.67	0.29	0.61	0.15	0.01	0.32	0.01	4.52	3.22	8.65	99.43	3.57	1.32	6.28	
Reference Materials																			
STD COO1	Standard																2.26		
STD COO1	Standard																1.28		
STD GBM309-15	Standard																0.25		27.87
STD GBM398-4-AR	Standard																		
STD GS311-1	Standard																0.99		2.34
STD GS311-1	Standard																0.97		2.31
STD GS910-4	Standard																2.67		8.41
STD GS910-4	Standard																2.59		8.13



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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
STD OREAS133B(D)	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard	1.0 10891.3 212.3 744 4.1 32.5 31.4 1114 8.31 14 1.5 12.4 14 1.0 1.2 66.1																			
STD PD05	Standard	528 454 627																			
STD PG04	Standard	1007 926 1214																			
STD SY-4(D)	Standard																				
STD GBM309-15 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD COO1 Expected																					
STD PD05 Expected		519 430 596																			
STD PG04 Expected		1004 903 1196																			
STD GBM398-4-AR Expected		917 3919 11750 5345 49.2 4135 1950 5260 3.95 6 0.7 0.8 13 9.2 7.2 12.9																			
STD OREAS927-AR Expected		1.06 10715 212 726 4.9 30.9 29.4 1110 8.15 13.5 1.7 12.5 13.1 1.1 1.3 66																			
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	3 <3 <2																			
BLK	Blank	3 <3 <2																			
BLK	Blank	<0.5 <0.5 1.6 <5 <0.5 0.9 <0.5 <5 <0.01 <5 <0.5 <0.5 <5 <0.5 <0.5 <0.5																			
SI BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	3 <3 <2 1.0 7.6 1.8 38 <0.5 1.0 3.9 599 1.88 <5 <0.5 2.6 26 <0.5 <0.5 <0.5																			
ROCK-WHI	Prep Blank	2 <3 <2 1.2 7.2 1.7 39 <0.5 1.8 4.5 608 1.93 <5 <0.5 2.3 28 <0.5 <0.5 <0.5																			





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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	
STD OREAS133B(D)	Standard																				33.60	6.85
STD OREAS72B	Standard																				51.40	9.01
STD OREAS927-AR	Standard	35	0.29	0.056	27.3	43.8	1.92	46	0.084	3.16	<0.01	0.28	5.0	0.15	5.0	<0.5	1.85	9	19			
STD PD05	Standard																					
STD PG04	Standard																					
STD SY-4(D)	Standard																				49.60	20.70
STD GBM309-15 Expected																						
STD GS311-1 Expected																						
STD GS910-4 Expected																						
STD COO1 Expected																						
STD PD05 Expected																						
STD PG04 Expected																						
STD GBM398-4-AR Expected		24	0.34	0.02	2.8	1950	0.12	21	0.111	0.48	0.25	0.11	3	3.21	1.79		0.94		3			
STD OREAS927-AR Expected		34	0.3	0.054	26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5			
STD SY-4(D) Expected																					49.9	20.69
STD OREAS72B Expected																					51.16	8.97
STD OREAS133B(D) Expected																					33.83	6.91
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<10	<0.01	<0.001	<0.5	0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2			
SI BLK	Blank																				99.00	0.33
Prep Wash																						
ROCK-WHI	Prep Blank	25	0.70	0.045	6.6	2.3	0.44	55	0.094	0.88	0.07	0.11	<0.5	<0.05	3.2	<0.5	<0.05	<5	<2	71.00	14.00	
ROCK-WHI	Prep Blank	30	0.71	0.042	6.5	2.1	0.52	62	0.095	0.98	0.07	0.11	<0.5	<0.05	4.0	<0.5	<0.05	<5	<2	70.30	14.00	



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## QUALITY CONTROL REPORT

WHI18000981.1

		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
STD OREAS133B(D)	Standard	11.50	5.30	3.71	3.44	0.16	0.24	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.57			
STD OREAS72B	Standard	9.85	3.98	15.90	1.32	0.15	0.35	0.06	0.14	0.04	0.02	<0.01	<0.01	5.12	98.66			
STD OREAS927-AR	Standard																	
STD PD05	Standard																	
STD PG04	Standard																	
STD SY-4(D)	Standard	6.19	8.00	0.53	1.66	0.11	0.30	0.17	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.83			
STD GBM309-15 Expected																	0.22	28.84
STD GS311-1 Expected																	1.02	2.35
STD GS910-4 Expected																	2.65	8.27
STD COO1 Expected																2.37		
STD PD05 Expected																		
STD PG04 Expected																		
STD GBM398-4-AR Expected																		
STD OREAS927-AR Expected																		
STD SY-4(D) Expected		6.21		0.54	1.66	0.108	0.287	0.131		0.0345				4.56				
STD OREAS72B Expected		9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12				
STD OREAS133B(D) Expected		11.67	5.4	3.73						0.08	0.032	5.06	11.35					
BLK	Blank																<0.02	<0.02
BLK	Blank																<0.02	<0.02
BLK	Blank															<0.02		
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
SI BLK	Blank	0.03	0.01	0.02	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.44			
Prep Wash																		
ROCK-WHI	Prep Blank	3.25	2.20	0.90	1.98	0.11	0.35	0.10	<0.01	0.09	<0.01	<0.01	<0.01	0.82	99.35	0.27	0.11	0.03
ROCK-WHI	Prep Blank	3.32	2.36	1.10	1.89	0.11	0.36	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.91	98.97	0.18	0.10	0.03