



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: August 13, 2018
Report Date: September 29, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI18000621.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-015
P.O. Number
Number of Samples: 61

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	58	Crush, split and pulverize 500g rock to 200 mesh			WHI
CRUBW	58	Extra clean rock wash between samples in crusher			WHI
PULSW	58	Extra Wash with Silica between each sample			VAN
SLBHP	3	Sort, label and box pulps			WHI
FA330	61	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	61	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	61	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	61	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	61	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	61	Analysis by Leco	0.1	Completed	VAN
SHP01	61	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC:



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



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Method	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
3208086	Drill Core	5.55	7	<3	4	13.4	34.6	50.3	71	1.1	9.9	1.2	27	0.93	8	1.0	3.1	12	1.1	12.3
3208087	Drill Core	6.14	8	<3	<2	16.5	85.5	79.5	623	1.0	62.8	6.8	128	2.45	28	2.1	4.6	69	3.8	13.2
3208088	Drill Core	5.31	9	7	5	16.5	61.4	91.3	797	1.0	76.4	7.6	191	3.12	37	2.1	4.6	92	5.4	15.8
3208089	Drill Core	6.63	8	<3	4	16.9	64.6	70.7	619	0.8	65.6	6.9	168	2.31	31	2.3	5.0	92	4.0	15.3
3208090	Drill Core	5.57	19	9	16	13.2	45.3	72.1	2741	0.7	71.1	7.3	396	3.22	33	2.1	4.1	132	6.0	12.5
3208091	Drill Core	7.22	9	<3	6	14.1	57.6	93.5	1364	0.8	64.9	7.7	406	3.45	37	2.2	4.0	124	4.3	14.5
3208092	Drill Core	6.64	8	<3	5	18.8	52.2	59.3	1336	0.6	68.0	7.2	552	2.78	38	2.1	3.9	81	3.7	13.4
3208093	Rock Pulp	0.07	140	<3	8	1.6	918.5	68.2	5163	2.0	20.0	38.2	1332	8.28	87	<0.5	0.8	77	14.0	4.8
3208094	Rock	0.75	<2	<3	<2	0.7	9.0	1.3	41	<0.5	2.2	5.9	745	2.38	<5	<0.5	2.1	38	<0.5	<0.5
3208095	Drill Core	4.95	31	<3	11	3.9	72.1	83.0	402	1.5	66.1	12.0	491	7.91	63	1.8	5.0	258	6.8	23.3
3208096	Drill Core	7.15	17	<3	15	5.1	71.9	68.8	226	1.1	71.9	14.7	102	4.64	59	2.1	6.7	86	6.6	16.6
3208097	Drill Core	6.54	14	<3	4	4.7	67.7	56.4	72	1.1	67.5	14.5	64	4.84	44	2.2	7.5	43	2.7	12.3
3208098	Drill Core	6.88	12	<3	8	4.5	78.2	58.5	199	0.9	64.1	10.9	986	5.78	38	2.2	6.6	52	2.9	10.0
3208099	Drill Core	6.89	10	<3	9	5.1	117.6	44.8	59	1.2	68.5	11.0	194	5.60	38	2.2	6.6	53	1.9	12.0
3208100	Drill Core	7.38	13	<3	5	5.3	72.8	42.1	63	1.4	66.3	12.0	1082	5.23	39	2.1	7.5	36	1.8	13.2
3208101	Drill Core	7.12	26	20	36	4.4	79.5	38.4	68	1.2	66.0	11.1	1020	5.69	36	1.9	6.3	40	3.3	12.3
3208102	Drill Core	7.52	29	<3	16	5.8	116.8	37.0	110	0.9	95.0	10.6	1347	4.83	45	2.1	6.8	35	5.5	9.4
3208103	Drill Core	7.22	16	<3	9	5.5	80.0	39.8	69	0.8	67.1	10.5	967	3.60	33	1.9	7.3	37	2.8	7.5
3208104	Drill Core	6.75	10	<3	15	5.0	70.0	32.4	76	0.7	64.5	10.2	1357	4.55	29	1.7	6.8	30	2.3	7.3
3208105	Drill Core	6.54	10	<3	8	5.3	66.2	24.3	90	0.5	53.8	11.0	1382	4.73	23	1.7	6.8	30	1.4	6.1
3208106	Drill Core	6.66	13	<3	7	4.7	63.2	27.7	73	0.6	67.3	10.5	1046	3.65	71	1.5	5.6	27	2.7	5.3
3208107	Drill Core	6.46	10	6	8	3.6	98.4	22.3	43	0.5	53.3	9.4	1205	4.29	19	1.2	4.6	21	<0.5	4.5
3208108	Drill Core	7.01	15	<3	9	4.0	64.9	26.5	158	<0.5	51.2	9.2	1051	4.15	145	1.6	5.6	33	5.1	5.4
3208109	Drill Core	6.62	20	<3	11	6.3	82.5	44.2	86	1.0	64.1	11.6	768	3.49	38	1.7	7.9	25	2.7	10.2
3208110	Drill Core	6.66	12	<3	16	5.1	72.0	39.9	535	0.8	64.3	12.3	1319	4.62	29	2.1	6.8	37	5.9	8.8
3208111	Drill Core	7.39	9	8	13	5.1	79.4	40.5	68	0.8	53.5	11.3	713	3.26	25	1.7	7.4	26	1.2	8.9
3208112	Drill Core	7.24	12	<3	8	6.1	83.3	44.4	55	0.9	54.4	12.7	933	3.67	26	1.5	6.6	24	1.7	9.6
3208113	Drill Core	7.94	11	<3	11	5.3	76.3	40.1	37	0.8	49.3	14.0	750	3.28	28	1.5	6.9	27	1.3	8.8
3208114	Drill Core	7.26	7	<3	13	5.3	75.7	33.5	111	0.7	60.0	13.8	990	3.80	23	1.3	6.0	22	0.6	8.9
3208115	Drill Core	7.11	12	3	6	7.3	75.6	73.0	50	1.2	72.9	16.8	258	2.32	45	1.8	7.3	24	2.4	14.3



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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
3208086	Drill Core	78	0.01	0.006	13.3	12.1	0.02	3279	0.006	0.44	<0.01	0.18	2.6	0.34	1.2	0.7	0.64	<5	5	81.30	8.29
3208087	Drill Core	103	0.43	0.100	10.9	19.9	0.16	1272	0.006	0.66	<0.01	0.23	0.6	0.15	2.7	1.2	2.18	<5	4	75.30	8.88
3208088	Drill Core	109	0.69	0.100	8.8	19.7	0.24	852	0.006	0.77	<0.01	0.24	<0.5	0.09	2.5	1.7	2.89	<5	5	73.50	8.67
3208089	Drill Core	98	0.73	0.108	10.4	18.1	0.27	1370	0.006	0.80	<0.01	0.23	<0.5	0.17	2.8	0.9	2.02	<5	4	75.10	8.67
3208090	Drill Core	94	1.27	0.105	9.7	20.0	0.49	923	0.005	0.93	<0.01	0.21	<0.5	0.07	3.1	1.0	2.35	<5	2	71.40	7.63
3208091	Drill Core	99	1.26	0.117	9.3	20.3	0.48	728	0.005	1.25	<0.01	0.21	<0.5	0.17	4.1	3.0	2.44	<5	2	70.50	7.88
3208092	Drill Core	115	0.91	0.091	10.3	19.4	0.35	1485	0.005	1.60	<0.01	0.21	<0.5	0.20	3.8	1.0	1.50	<5	2	72.20	8.05
3208093	Rock Pulp	152	3.87	0.055	5.2	26.7	2.14	126	0.196	3.49	0.12	0.21	1.1	0.47	24.0	0.6	1.54	10	5	51.60	13.20
3208094	Rock	39	0.96	0.045	7.6	3.7	0.62	76	0.134	1.28	0.12	0.15	<0.5	<0.05	4.8	<0.5	<0.05	<5	<2	70.40	14.30
3208095	Drill Core	30	0.15	0.119	14.5	9.5	0.02	157	0.004	0.78	<0.01	0.19	<0.5	0.14	2.3	<0.5	7.74	<5	<2	66.00	8.98
3208096	Drill Core	34	0.16	0.088	22.0	11.3	0.03	853	0.005	0.63	<0.01	0.24	<0.5	0.19	2.0	0.6	4.65	<5	<2	72.30	9.92
3208097	Drill Core	41	0.13	0.081	25.5	12.0	0.04	661	0.007	0.70	<0.01	0.31	<0.5	0.16	2.5	0.5	4.93	<5	<2	70.70	10.80
3208098	Drill Core	39	0.14	0.073	21.1	11.8	0.03	972	0.005	0.63	<0.01	0.28	<0.5	0.19	2.3	<0.5	4.85	<5	<2	71.50	9.26
3208099	Drill Core	34	0.14	0.082	22.9	11.1	0.03	743	0.004	0.59	<0.01	0.27	<0.5	0.11	1.9	<0.5	5.60	<5	3	71.40	9.42
3208100	Drill Core	36	0.14	0.064	26.9	10.8	0.10	998	0.004	0.59	<0.01	0.29	<0.5	0.19	2.5	<0.5	4.04	<5	2	70.90	10.00
3208101	Drill Core	31	0.14	0.072	21.4	9.8	0.07	782	0.003	0.53	<0.01	0.25	<0.5	0.20	2.5	<0.5	4.63	<5	<2	72.40	8.83
3208102	Drill Core	46	0.15	0.076	27.7	11.5	0.26	1384	0.004	0.74	<0.01	0.31	<0.5	0.07	3.6	<0.5	1.76	<5	4	71.80	9.98
3208103	Drill Core	38	0.15	0.088	28.5	11.6	0.19	906	0.003	0.62	<0.01	0.32	<0.5	0.09	3.0	<0.5	1.28	<5	3	73.60	10.30
3208104	Drill Core	36	0.16	0.069	27.6	10.7	0.22	892	0.004	0.58	<0.01	0.31	<0.5	0.08	2.8	<0.5	1.15	<5	2	73.20	9.45
3208105	Drill Core	46	0.17	0.071	26.9	12.3	0.25	792	0.004	0.57	<0.01	0.31	<0.5	<0.05	3.0	<0.5	0.89	<5	3	72.00	10.00
3208106	Drill Core	32	0.14	0.059	22.3	10.6	0.19	698	0.003	0.50	<0.01	0.25	<0.5	0.06	1.7	<0.5	0.82	<5	2	77.80	7.78
3208107	Drill Core	29	0.15	0.065	19.5	9.4	0.24	653	0.003	0.41	<0.01	0.24	<0.5	<0.05	2.3	<0.5	0.76	<5	<2	78.90	6.59
3208108	Drill Core	32	0.22	0.066	21.8	8.4	0.28	664	0.015	0.59	0.01	0.23	<0.5	<0.05	2.6	<0.5	0.93	<5	<2	73.70	9.68
3208109	Drill Core	40	0.15	0.078	28.5	10.7	0.15	1033	0.003	0.61	<0.01	0.34	<0.5	0.06	3.5	<0.5	1.29	<5	3	72.80	11.00
3208110	Drill Core	43	0.16	0.074	26.5	11.2	0.11	1439	0.003	0.61	<0.01	0.28	<0.5	<0.05	3.6	<0.5	1.28	<5	3	70.90	10.80
3208111	Drill Core	45	0.14	0.066	30.3	11.1	0.12	1159	0.004	0.66	<0.01	0.38	<0.5	<0.05	2.9	<0.5	1.19	<5	4	73.70	11.20
3208112	Drill Core	47	0.14	0.072	26.9	10.4	0.13	828	0.003	0.55	<0.01	0.31	<0.5	0.08	3.0	<0.5	1.13	<5	4	74.70	9.63
3208113	Drill Core	44	0.20	0.078	28.6	11.8	0.21	769	0.006	0.63	<0.01	0.35	<0.5	<0.05	2.4	<0.5	0.97	<5	4	74.60	10.50
3208114	Drill Core	43	0.18	0.087	23.9	10.8	0.15	665	0.003	0.52	<0.01	0.29	<0.5	<0.05	3.4	<0.5	0.87	<5	2	76.80	8.57
3208115	Drill Core	39	0.14	0.070	27.1	10.9	0.06	662	0.007	0.55	<0.01	0.31	<0.5	<0.05	1.4	<0.5	1.36	<5	6	76.10	10.90



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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3208086	Drill Core	1.48	0.02	0.40	1.92	0.02	0.46	0.03	0.02	1.34	<0.01	<0.01	<0.01	4.44	99.95	<0.02	2.31	0.66	
3208087	Drill Core	3.59	0.68	0.66	2.03	0.03	0.46	0.23	0.02	1.23	<0.01	<0.01	0.06	6.34	99.72	0.52	2.99	2.22	
3208088	Drill Core	4.53	0.95	0.76	1.93	0.04	0.44	0.25	0.02	1.35	<0.01	<0.01	0.08	7.09	99.85	0.97	3.02	3.01	
3208089	Drill Core	3.39	1.02	0.80	1.92	0.04	0.44	0.24	0.02	1.69	<0.01	<0.01	0.06	6.42	100.08	0.98	3.01	2.19	
3208090	Drill Core	4.62	1.74	1.12	1.58	0.06	0.39	0.24	0.02	2.11	<0.01	<0.01	0.28	7.61	99.16	2.34	3.41	2.73	
3208091	Drill Core	4.97	1.75	1.08	1.52	0.06	0.41	0.28	0.02	2.77	<0.01	<0.01	0.14	7.37	99.15	2.06	3.12	2.99	
3208092	Drill Core	3.98	1.25	0.86	1.42	0.08	0.41	0.22	0.01	3.57	<0.01	<0.01	0.14	6.37	99.04	1.72	3.00	2.18	
3208093	Rock Pulp	12.90	6.87	3.91	0.51	0.21	0.59	0.13	<0.01	0.03	0.09	<0.01	0.54	5.09	98.37	2.95	0.97	1.58	
3208094	Rock	3.85	2.60	1.22	1.79	0.12	0.41	0.10	<0.01	0.09	<0.01	<0.01	<0.01	1.34	100.76	0.35	0.11	<0.02	
3208095	Drill Core	11.00	0.21	0.42	1.91	0.08	0.47	0.30	<0.01	2.02	<0.01	<0.01	0.04	8.29	100.02	0.33	1.30	8.09	
3208096	Drill Core	6.50	0.25	0.53	2.46	0.03	0.55	0.22	0.01	1.19	<0.01	<0.01	0.02	5.58	99.75	0.04	1.10	4.67	
3208097	Drill Core	6.90	0.21	0.57	2.78	0.03	0.61	0.17	0.01	1.19	<0.01	<0.01	<0.01	5.95	100.14	0.05	1.19	4.92	
3208098	Drill Core	8.12	0.21	0.48	2.39	0.14	0.52	0.17	0.01	0.86	<0.01	<0.01	0.02	6.21	100.04	0.68	1.36	4.88	
3208099	Drill Core	7.87	0.24	0.50	2.48	0.04	0.53	0.20	0.01	0.78	<0.01	<0.01	<0.01	6.23	99.87	0.09	1.19	5.63	
3208100	Drill Core	7.46	0.21	0.59	2.68	0.14	0.57	0.16	0.01	0.77	<0.01	<0.01	<0.01	6.14	99.79	0.90	1.55	4.04	
3208101	Drill Core	8.07	0.20	0.48	2.34	0.13	0.48	0.16	0.01	0.66	<0.01	<0.01	<0.01	6.18	100.09	0.79	1.42	4.64	
3208102	Drill Core	7.10	0.24	0.77	2.60	0.18	0.55	0.18	0.01	0.71	<0.01	<0.01	0.01	6.19	100.48	2.37	1.99	1.75	
3208103	Drill Core	5.37	0.27	0.66	2.75	0.12	0.58	0.19	0.01	0.68	<0.01	<0.01	<0.01	5.19	99.88	1.66	1.77	1.28	
3208104	Drill Core	6.66	0.24	0.66	2.53	0.17	0.53	0.16	0.01	0.61	<0.01	<0.01	<0.01	5.65	100.01	2.41	1.94	1.13	
3208105	Drill Core	6.95	0.24	0.68	2.70	0.17	0.57	0.16	0.01	0.60	<0.01	<0.01	<0.01	5.85	100.08	2.76	2.06	0.85	
3208106	Drill Core	5.32	0.21	0.52	2.08	0.13	0.41	0.14	0.01	0.46	<0.01	<0.01	<0.01	5.04	99.99	1.90	2.12	0.83	
3208107	Drill Core	6.15	0.22	0.58	1.78	0.15	0.36	0.14	<0.01	0.38	<0.01	<0.01	<0.01	5.03	100.39	2.45	1.98	0.75	
3208108	Drill Core	6.13	0.56	0.70	2.31	0.14	0.47	0.15	<0.01	0.45	<0.01	<0.01	0.02	5.12	100.17	2.05	1.82	0.93	
3208109	Drill Core	5.32	0.24	0.62	2.98	0.10	0.61	0.17	0.01	0.65	<0.01	<0.01	<0.01	5.33	99.98	1.49	1.81	1.28	
3208110	Drill Core	6.80	0.27	0.55	2.86	0.17	0.60	0.18	0.01	0.68	<0.01	<0.01	0.06	6.08	100.12	2.34	2.01	1.28	
3208111	Drill Core	4.95	0.23	0.55	3.04	0.10	0.63	0.16	0.01	0.66	<0.01	<0.01	<0.01	4.98	100.38	1.35	1.62	1.17	
3208112	Drill Core	5.45	0.23	0.52	2.64	0.12	0.54	0.15	0.01	0.54	<0.01	<0.01	<0.01	5.16	99.82	1.68	1.97	1.14	
3208113	Drill Core	5.00	0.36	0.66	2.77	0.10	0.57	0.17	0.01	0.54	<0.01	<0.01	<0.01	4.89	100.45	1.55	1.64	0.94	
3208114	Drill Core	5.60	0.30	0.51	2.34	0.13	0.48	0.19	0.01	0.44	<0.01	<0.01	0.01	5.09	100.60	1.89	1.91	0.86	
3208115	Drill Core	3.71	0.23	0.45	2.94	0.05	0.61	0.17	0.02	0.55	<0.01	<0.01	<0.01	4.58	100.44	0.50	1.74	1.35	



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Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
3208116	Drill Core	7.30	6	<3	<2	1.7	29.1	17.1	53	<0.5	35.3	8.2	550	2.57	22	<0.5	1.2	7	<0.5	3.4	<0.5
3208117	Rock Pulp	0.08	463	<3	4	2.4	12946.2	32.1	1309	3.3	14.7	115.6	1255	11.68	61	<0.5	0.5	60	3.7	2.9	1.4
3208118	Drill Core	6.16	11	<3	<2	2.3	89.6	17.1	42	<0.5	41.4	9.7	332	1.98	44	0.7	1.9	13	1.8	4.1	<0.5
3208119	Drill Core	7.42	8	<3	2	1.2	10.5	9.5	80	<0.5	26.6	6.7	211	1.10	34	<0.5	1.2	13	<0.5	3.1	<0.5
3208120	Drill Core	7.08	11	<3	4	1.3	11.6	14.5	40	<0.5	35.2	7.9	365	1.73	40	<0.5	0.9	47	<0.5	4.6	<0.5
3208121	Drill Core	7.04	12	<3	8	1.5	37.0	16.8	172	<0.5	42.4	8.9	886	3.25	60	<0.5	0.8	29	<0.5	3.2	<0.5
3208122	Drill Core	8.11	22	<3	2	3.6	40.7	27.4	175	0.6	52.6	12.9	742	3.16	90	1.0	2.1	20	<0.5	6.0	<0.5
3208123	Drill Core	3.11	9	<3	11	7.4	53.5	14.2	84	0.6	68.4	13.2	565	2.79	73	1.6	6.2	37	0.5	6.4	<0.5
3208124	Drill Core	5.79	5	<3	<2	3.2	41.8	21.7	39	0.5	47.8	13.0	925	3.71	25	0.9	2.1	15	0.6	4.8	<0.5
3208125	Drill Core	4.23	8	<3	3	3.2	48.6	23.7	106	0.6	47.9	13.4	636	2.61	27	1.0	3.6	15	<0.5	5.9	<0.5
3208126	Drill Core	5.69	5	<3	3	2.9	46.8	19.1	35	<0.5	43.8	12.1	856	3.13	34	0.8	2.8	21	0.9	8.2	<0.5
3208127	Drill Core	5.66	7	<3	3	2.6	189.7	17.0	57	0.9	46.1	11.9	825	3.43	29	0.9	3.2	16	0.6	5.6	<0.5
3208128	Drill Core	3.06	8	<3	7	4.8	65.8	17.3	81	<0.5	54.6	15.4	998	3.64	25	1.2	5.5	19	<0.5	2.8	<0.5
3208129	Drill Core	3.92	7	<3	<2	1.8	29.9	11.3	84	<0.5	32.7	9.5	881	3.20	26	0.6	2.1	16	<0.5	3.3	<0.5
3208130	Drill Core	4.97	11	<3	2	3.0	52.2	13.2	147	<0.5	48.6	14.8	1346	5.11	37	1.1	4.3	17	1.4	4.3	<0.5
3208131	Drill Core	6.67	12	<3	4	3.4	72.4	10.8	198	<0.5	36.6	13.2	843	3.24	39	1.3	5.5	19	1.2	4.7	<0.5
3208132	Drill Core	3.59	16	<3	<2	2.7	56.2	14.5	61	<0.5	40.0	10.6	412	2.33	59	0.8	3.7	21	1.4	5.9	<0.5
3208133	Rock	0.54	<2	<3	<2	0.9	7.8	1.4	45	<0.5	3.2	5.5	767	2.50	<5	<0.5	1.8	33	<0.5	<0.5	<0.5
3208134	Drill Core	6.19	17	5	21	2.4	24.6	18.3	111	<0.5	43.6	10.6	899	3.68	48	0.7	2.5	21	<0.5	5.3	<0.5
3208135	Drill Core	5.97	8	<3	<2	1.2	24.8	13.5	237	<0.5	39.9	8.8	1384	4.96	32	<0.5	1.1	81	<0.5	2.5	<0.5
3208136	Drill Core	8.27	12	<3	7	3.7	75.6	24.8	75	0.6	46.0	11.8	601	2.91	30	0.9	5.6	17	<0.5	5.0	<0.5
3208137	Drill Core	7.37	9	<3	3	3.2	75.7	24.5	59	0.6	52.2	10.3	711	3.43	14	0.8	5.1	22	<0.5	7.0	<0.5
3208138	Drill Core	7.48	9	<3	4	4.2	91.1	30.1	175	0.6	58.0	10.6	855	3.93	20	0.8	5.5	14	<0.5	5.7	<0.5
3208139	Drill Core	7.00	7	<3	5	3.1	65.3	22.2	108	<0.5	44.1	8.2	835	3.27	15	0.8	4.8	19	<0.5	4.2	<0.5
3208140	Drill Core	7.43	10	<3	4	3.5	81.1	27.3	44	0.7	57.4	9.3	544	2.93	16	1.0	5.6	15	<0.5	5.6	<0.5
3208141	Drill Core	9.14	7	<3	4	3.5	70.8	23.0	71	0.5	44.7	9.1	647	3.16	17	1.0	5.8	33	<0.5	4.9	<0.5
3208142	Rock Pulp	0.09	496	<3	4	2.6	13150.1	31.2	1296	3.3	15.3	113.9	1192	11.24	58	<0.5	<0.5	52	4.2	3.0	1.4
3208143	Drill Core	7.25	6	<3	<2	1.1	24.2	14.6	13	<0.5	30.1	3.9	589	2.68	6	<0.5	1.2	76	<0.5	2.6	<0.5
3208144	Drill Core	6.55	5	<3	3	1.1	17.1	17.0	6	<0.5	33.1	3.6	510	2.47	8	<0.5	1.0	82	<0.5	3.6	<0.5
3208145	Drill Core	5.05	9	<3	4	4.2	88.1	25.9	34	0.6	46.7	9.5	356	2.26	21	1.0	6.8	19	<0.5	6.8	<0.5



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	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
3208116	Drill Core	18	0.09	0.039	7.2	7.0	0.12	208	0.001	0.15	<0.01	0.10	<0.5	0.07	1.0	<0.5	0.47	<5	<2	89.90	2.52
3208117	Rock Pulp	142	3.09	0.047	3.9	27.7	1.80	162	0.194	3.19	0.12	0.24	1.1	0.27	18.1	0.6	4.50	8	42	47.50	12.30
3208118	Drill Core	21	0.12	0.044	10.2	8.7	0.07	291	0.002	0.23	<0.01	0.13	<0.5	<0.05	1.2	<0.5	0.55	<5	<2	88.50	3.46
3208119	Drill Core	<10	0.12	0.031	5.5	4.8	0.02	192	0.002	0.13	<0.01	0.08	<0.5	<0.05	0.7	<0.5	0.31	<5	<2	93.00	2.34
3208120	Drill Core	12	0.76	0.031	6.5	5.8	0.20	139	<0.001	0.11	<0.01	0.07	<0.5	<0.05	1.2	<0.5	0.52	<5	<2	89.90	2.16
3208121	Drill Core	16	0.42	0.031	7.8	6.4	0.20	184	<0.001	0.11	<0.01	0.08	<0.5	<0.05	1.6	<0.5	0.47	<5	<2	87.90	2.05
3208122	Drill Core	21	0.22	0.070	15.9	6.1	0.04	213	<0.001	0.20	<0.01	0.13	<0.5	0.06	1.7	<0.5	1.01	<5	<2	84.10	4.21
3208123	Drill Core	42	0.32	0.140	30.6	8.4	0.10	389	0.003	0.41	<0.01	0.24	<0.5	0.07	2.7	<0.5	0.85	<5	2	65.70	10.30
3208124	Drill Core	32	0.14	0.059	14.8	8.8	0.20	222	0.001	0.19	<0.01	0.13	<0.5	0.07	3.1	<0.5	0.60	<5	2	82.90	4.12
3208125	Drill Core	24	0.10	0.058	19.0	8.1	0.08	339	0.002	0.31	<0.01	0.21	<0.5	<0.05	2.4	<0.5	0.65	<5	3	80.90	7.00
3208126	Drill Core	33	0.15	0.064	17.4	9.6	0.14	331	0.003	0.27	<0.01	0.17	<0.5	<0.05	3.2	<0.5	0.51	<5	3	83.10	5.25
3208127	Drill Core	32	0.18	0.056	20.6	9.2	0.21	278	0.002	0.26	<0.01	0.17	<0.5	<0.05	3.1	<0.5	0.56	<5	<2	81.30	5.74
3208128	Drill Core	39	0.20	0.081	28.1	10.5	0.18	439	0.002	0.41	<0.01	0.26	<0.5	<0.05	3.2	<0.5	0.69	<5	4	72.50	10.40
3208129	Drill Core	16	0.17	0.069	11.8	6.8	0.15	209	0.001	0.19	<0.01	0.12	<0.5	<0.05	2.8	<0.5	0.40	<5	<2	85.70	3.97
3208130	Drill Core	27	0.19	0.078	21.8	8.3	0.31	371	0.002	0.35	<0.01	0.20	<0.5	0.07	3.1	<0.5	0.74	<5	2	75.30	7.22
3208131	Drill Core	25	0.15	0.075	26.6	9.1	0.17	631	0.003	0.50	<0.01	0.28	<0.5	<0.05	3.5	<0.5	0.70	<5	<2	75.50	9.65
3208132	Drill Core	24	0.15	0.067	16.0	8.9	0.08	433	0.002	0.32	<0.01	0.19	<0.5	<0.05	2.4	<0.5	0.93	<5	2	82.60	6.67
3208133	Rock	42	0.95	0.048	6.2	5.9	0.70	72	0.121	1.33	0.11	0.12	<0.5	<0.05	5.2	<0.5	<0.05	<5	<2	68.90	14.10
3208134	Drill Core	25	0.22	0.052	12.6	8.5	0.18	307	0.002	0.25	<0.01	0.15	<0.5	<0.05	2.4	<0.5	0.65	<5	2	82.20	5.04
3208135	Drill Core	16	0.93	0.046	6.7	7.0	0.43	128	<0.001	0.12	<0.01	0.07	<0.5	<0.05	1.8	<0.5	0.42	<5	<2	82.60	2.27
3208136	Drill Core	26	0.15	0.061	24.7	9.4	0.17	473	0.002	0.45	<0.01	0.27	<0.5	0.06	3.0	<0.5	0.81	<5	3	76.20	10.10
3208137	Drill Core	29	0.25	0.054	22.6	10.5	0.22	511	0.002	0.48	<0.01	0.29	<0.5	<0.05	3.4	<0.5	0.83	<5	3	76.20	9.07
3208138	Drill Core	31	0.13	0.048	24.9	11.7	0.23	522	0.003	0.53	<0.01	0.33	<0.5	0.06	3.2	<0.5	1.01	<5	3	74.50	9.64
3208139	Drill Core	29	0.22	0.061	22.6	9.7	0.19	464	0.003	0.46	<0.01	0.29	<0.5	0.06	3.2	<0.5	0.72	<5	2	76.90	8.80
3208140	Drill Core	32	0.15	0.067	24.3	10.9	0.16	535	0.003	0.57	<0.01	0.34	<0.5	<0.05	4.0	<0.5	0.89	<5	4	76.10	9.84
3208141	Drill Core	33	0.34	0.057	25.5	10.7	0.27	523	0.003	0.56	<0.01	0.33	<0.5	0.08	3.8	<0.5	0.76	<5	3	74.30	10.00
3208142	Rock Pulp	131	2.83	0.041	3.3	25.4	1.75	145	0.171	3.07	0.11	0.24	1.1	0.33	15.7	0.5	4.54	8	40	47.20	12.20
3208143	Drill Core	16	1.18	0.046	5.6	7.7	0.41	273	<0.001	0.17	<0.01	0.11	<0.5	<0.05	2.2	<0.5	0.38	<5	<2	85.50	2.84
3208144	Drill Core	13	1.10	0.048	6.5	6.7	0.39	217	<0.001	0.16	<0.01	0.11	<0.5	<0.05	2.0	<0.5	0.43	<5	<2	87.70	2.55
3208145	Drill Core	33	0.23	0.060	30.6	11.6	0.17	583	0.003	0.57	<0.01	0.35	<0.5	0.06	3.3	<0.5	0.80	<5	3	75.20	11.20



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		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
3208116	Drill Core	3.61	0.15	0.27	0.68	0.08	0.14	0.09	<0.01	0.15	<0.01	<0.01	<0.01	2.50	100.14	1.22	1.07	0.47
3208117	Rock Pulp	18.40	6.33	3.43	0.48	0.20	0.55	0.11	<0.01	0.02	1.29	<0.01	0.14	3.89	97.27	2.04	0.66	4.52
3208118	Drill Core	2.77	0.15	0.23	0.93	0.05	0.19	0.10	0.02	0.18	<0.01	<0.01	<0.01	3.13	99.77	0.64	1.99	0.54
3208119	Drill Core	1.74	0.20	0.13	0.63	0.04	0.13	0.08	<0.01	0.13	<0.01	<0.01	<0.01	1.75	100.21	0.38	0.60	0.29
3208120	Drill Core	2.69	1.10	0.44	0.58	0.06	0.12	0.07	<0.01	0.12	<0.01	<0.01	<0.01	2.29	99.58	1.62	0.85	0.50
3208121	Drill Core	4.89	0.65	0.40	0.55	0.12	0.10	0.08	<0.01	0.11	<0.01	<0.01	0.02	2.98	99.89	2.31	1.17	0.46
3208122	Drill Core	4.88	0.29	0.21	1.13	0.11	0.23	0.17	<0.01	0.19	<0.01	<0.01	0.02	3.86	99.46	1.35	1.97	1.01
3208123	Drill Core	4.64	0.48	0.47	2.82	0.09	0.60	0.33	0.01	0.42	<0.01	<0.01	<0.01	13.46	99.44	1.34	10.97	0.89
3208124	Drill Core	5.64	0.22	0.46	1.12	0.13	0.23	0.14	<0.01	0.18	<0.01	<0.01	<0.01	4.22	99.42	2.21	2.06	0.60
3208125	Drill Core	4.22	0.19	0.33	1.93	0.09	0.39	0.13	0.02	0.30	<0.01	<0.01	<0.01	3.93	99.56	1.30	1.90	0.65
3208126	Drill Core	4.87	0.24	0.39	1.43	0.12	0.30	0.15	<0.01	0.24	<0.01	<0.01	<0.01	3.70	99.90	1.89	1.61	0.51
3208127	Drill Core	5.28	0.29	0.53	1.56	0.12	0.33	0.14	0.01	0.25	0.02	<0.01	<0.01	3.88	99.52	2.10	1.43	0.54
3208128	Drill Core	5.92	0.30	0.62	2.89	0.14	0.61	0.19	0.01	0.44	<0.01	<0.01	<0.01	6.08	100.23	2.28	2.84	0.68
3208129	Drill Core	4.93	0.26	0.39	1.07	0.13	0.24	0.16	<0.01	0.18	<0.01	<0.01	<0.01	3.04	100.16	1.94	1.11	0.38
3208130	Drill Core	7.83	0.30	0.71	1.97	0.19	0.43	0.18	<0.01	0.33	<0.01	<0.01	0.01	5.52	100.09	3.29	1.97	0.73
3208131	Drill Core	5.24	0.25	0.59	2.63	0.12	0.58	0.17	<0.01	0.51	<0.01	<0.01	0.02	4.55	99.94	1.84	1.61	0.70
3208132	Drill Core	3.76	0.25	0.37	1.80	0.07	0.38	0.18	<0.01	0.37	<0.01	<0.01	<0.01	3.26	99.82	0.89	1.29	0.92
3208133	Rock	4.21	2.68	1.38	1.83	0.13	0.41	0.11	<0.01	0.08	<0.01	<0.01	<0.01	1.42	99.59	0.44	0.15	<0.02
3208134	Drill Core	5.67	0.36	0.46	1.38	0.13	0.29	0.13	<0.01	0.25	<0.01	<0.01	<0.01	3.93	99.93	2.25	1.59	0.63
3208135	Drill Core	7.41	1.33	0.81	0.61	0.19	0.12	0.11	<0.01	0.11	<0.01	0.01	0.02	4.91	100.57	4.30	1.95	0.41
3208136	Drill Core	4.81	0.22	0.61	2.80	0.09	0.58	0.14	0.01	0.44	<0.01	0.01	<0.01	4.50	100.66	1.62	1.52	0.78
3208137	Drill Core	5.47	0.39	0.67	2.51	0.10	0.53	0.14	<0.01	0.39	<0.01	<0.01	<0.01	4.76	100.37	2.12	1.61	0.81
3208138	Drill Core	6.27	0.21	0.68	2.69	0.12	0.55	0.13	0.01	0.40	<0.01	<0.01	0.02	5.22	100.58	2.34	1.80	1.01
3208139	Drill Core	5.27	0.34	0.60	2.43	0.12	0.51	0.15	0.01	0.35	<0.01	<0.01	<0.01	4.45	100.04	1.98	1.57	0.71
3208140	Drill Core	4.73	0.23	0.59	2.74	0.08	0.58	0.15	0.02	0.39	<0.01	<0.01	<0.01	4.43	100.00	1.50	1.51	0.87
3208141	Drill Core	5.12	0.53	0.78	2.79	0.09	0.58	0.14	0.01	0.39	<0.01	<0.01	<0.01	5.05	99.90	2.20	1.74	0.74
3208142	Rock Pulp	18.20	6.30	3.41	0.48	0.20	0.54	0.10	<0.01	0.02	1.30	<0.01	0.13	4.99	97.68	2.00	0.69	4.62
3208143	Drill Core	4.22	1.71	0.81	0.78	0.09	0.15	0.11	<0.01	0.14	<0.01	<0.01	<0.01	3.68	100.08	2.76	1.40	0.38
3208144	Drill Core	3.79	1.59	0.74	0.70	0.08	0.14	0.12	<0.01	0.13	<0.01	0.01	<0.01	3.19	100.80	2.69	1.19	0.41
3208145	Drill Core	3.86	0.34	0.66	3.15	0.06	0.64	0.14	0.01	0.47	<0.01	<0.01	<0.01	4.48	100.39	1.22	1.58	0.78



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Project: MacMillan Pass
Report Date: September 29, 2018

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CERTIFICATE OF ANALYSIS

WHI18000621.1

	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
3208146	Drill Core	7.66	7	<3	3	3.7	92.4	26.9	35	0.5	49.2	9.1	553	3.13	21	1.0	6.1	24	<0.5	5.0	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
3208146	Drill Core	35	0.32	0.058	28.6	11.1	0.27	567	0.003	0.56	<0.01	0.35	<0.5	0.07	3.8	<0.5	0.88	<5	4	74.20	10.60



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02
3208146	Drill Core	5.16	0.45	0.82	2.96	0.09	0.60	0.14	0.01	0.46	<0.01	0.01	<0.01	5.01	100.63	2.02	1.75	0.89



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QUALITY CONTROL REPORT

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	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
3208103	Drill Core	7.22	16	<3	9	5.5	80.0	39.8	69	0.8	67.1	10.5	967	3.60	33	1.9	7.3	37	2.8	7.5	<0.5
3208133	Rock	0.54	<2	<3	<2	0.9	7.8	1.4	45	<0.5	3.2	5.5	767	2.50	<5	<0.5	1.8	33	<0.5	<0.5	<0.5
Pulp Duplicates																					
3208087	Drill Core	6.14	8	<3	<2	16.5	85.5	79.5	623	1.0	62.8	6.8	128	2.45	28	2.1	4.6	69	3.8	13.2	<0.5
REP 3208087	QC		6	<3	10																
3208104	Drill Core	6.75	10	<3	15	5.0	70.0	32.4	76	0.7	64.5	10.2	1357	4.55	29	1.7	6.8	30	2.3	7.3	<0.5
REP 3208104	QC					5.0	70.6	31.8	75	0.7	64.9	10.4	1351	4.54	29	1.6	6.7	28	2.3	6.9	0.6
REP 3208105	QC																				
3208110	Drill Core	6.66	12	<3	16	5.1	72.0	39.9	535	0.8	64.3	12.3	1319	4.62	29	2.1	6.8	37	5.9	8.8	<0.5
REP 3208110	QC		13	<3	6																
3208115	Drill Core	7.11	12	3	6	7.3	75.6	73.0	50	1.2	72.9	16.8	258	2.32	45	1.8	7.3	24	2.4	14.3	<0.5
REP 3208115	QC																				
3208116	Drill Core	7.30	6	<3	<2	1.7	29.1	17.1	53	<0.5	35.3	8.2	550	2.57	22	<0.5	1.2	7	<0.5	3.4	<0.5
REP 3208116	QC																				
3208118	Drill Core	6.16	11	<3	<2	2.3	89.6	17.1	42	<0.5	41.4	9.7	332	1.98	44	0.7	1.9	13	1.8	4.1	<0.5
REP 3208118	QC		7	<3	<2																
3208134	Drill Core	6.19	17	5	21	2.4	24.6	18.3	111	<0.5	43.6	10.6	899	3.68	48	0.7	2.5	21	<0.5	5.3	<0.5
REP 3208134	QC					2.7	23.7	18.6	117	<0.5	44.5	11.7	923	3.73	50	0.6	2.7	22	<0.5	5.4	<0.5
3208135	Drill Core	5.97	8	<3	<2	1.2	24.8	13.5	237	<0.5	39.9	8.8	1384	4.96	32	<0.5	1.1	81	<0.5	2.5	<0.5
REP 3208135	QC																				
3208136	Drill Core	8.27	12	<3	7	3.7	75.6	24.8	75	0.6	46.0	11.8	601	2.91	30	0.9	5.6	17	<0.5	5.0	<0.5
REP 3208136	QC																				
3208141	Drill Core	9.14	7	<3	4	3.5	70.8	23.0	71	0.5	44.7	9.1	647	3.16	17	1.0	5.8	33	<0.5	4.9	<0.5
REP 3208141	QC		8	<3	5																
3208144	Drill Core	6.55	5	<3	3	1.1	17.1	17.0	6	<0.5	33.1	3.6	510	2.47	8	<0.5	1.0	82	<0.5	3.6	<0.5
REP 3208144	QC																				
Core Reject Duplicates																					
3208105	Drill Core	6.54	10	<3	8	5.3	66.2	24.3	90	0.5	53.8	11.0	1382	4.73	23	1.7	6.8	30	1.4	6.1	<0.5
DUP 3208105	QC		10	<3	5	5.2	71.8	23.7	99	0.5	56.2	11.5	1333	4.71	24	1.6	6.7	30	1.4	6.2	<0.5



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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
3208103	Drill Core	38	0.15	0.088	28.5	11.6	0.19	906	0.003	0.62	<0.01	0.32	<0.5	0.09	3.0	<0.5	1.28	<5	3	73.60	10.30
3208133	Rock	42	0.95	0.048	6.2	5.9	0.70	72	0.121	1.33	0.11	0.12	<0.5	<0.05	5.2	<0.5	<0.05	<5	<2	68.90	14.10
Pulp Duplicates																					
3208087	Drill Core	103	0.43	0.100	10.9	19.9	0.16	1272	0.006	0.66	<0.01	0.23	0.6	0.15	2.7	1.2	2.18	<5	4	75.30	8.88
REP 3208087	QC																				
3208104	Drill Core	36	0.16	0.069	27.6	10.7	0.22	892	0.004	0.58	<0.01	0.31	<0.5	0.08	2.8	<0.5	1.15	<5	2	73.20	9.45
REP 3208104	QC	35	0.15	0.072	26.1	11.1	0.22	814	0.004	0.56	<0.01	0.29	<0.5	0.07	2.2	<0.5	1.14	<5	<2	73.20	9.44
REP 3208105	QC																				
3208110	Drill Core	43	0.16	0.074	26.5	11.2	0.11	1439	0.003	0.61	<0.01	0.28	<0.5	<0.05	3.6	<0.5	1.28	<5	3	70.90	10.80
REP 3208110	QC																				
3208115	Drill Core	39	0.14	0.070	27.1	10.9	0.06	662	0.007	0.55	<0.01	0.31	<0.5	<0.05	1.4	<0.5	1.36	<5	6	76.10	10.90
REP 3208115	QC																			75.40	10.80
3208116	Drill Core	18	0.09	0.039	7.2	7.0	0.12	208	0.001	0.15	<0.01	0.10	<0.5	0.07	1.0	<0.5	0.47	<5	<2	89.90	2.52
REP 3208116	QC																				
3208118	Drill Core	21	0.12	0.044	10.2	8.7	0.07	291	0.002	0.23	<0.01	0.13	<0.5	<0.05	1.2	<0.5	0.55	<5	<2	88.50	3.46
REP 3208118	QC																				
3208134	Drill Core	25	0.22	0.052	12.6	8.5	0.18	307	0.002	0.25	<0.01	0.15	<0.5	<0.05	2.4	<0.5	0.65	<5	2	82.20	5.04
REP 3208134	QC	24	0.23	0.054	13.1	8.4	0.18	306	0.002	0.24	<0.01	0.15	<0.5	0.07	2.5	<0.5	0.65	<5	3		
3208135	Drill Core	16	0.93	0.046	6.7	7.0	0.43	128	<0.001	0.12	<0.01	0.07	<0.5	<0.05	1.8	<0.5	0.42	<5	<2	82.60	2.27
REP 3208135	QC																			82.10	2.26
3208136	Drill Core	26	0.15	0.061	24.7	9.4	0.17	473	0.002	0.45	<0.01	0.27	<0.5	0.06	3.0	<0.5	0.81	<5	3	76.20	10.10
REP 3208136	QC																				
3208141	Drill Core	33	0.34	0.057	25.5	10.7	0.27	523	0.003	0.56	<0.01	0.33	<0.5	0.08	3.8	<0.5	0.76	<5	3	74.30	10.00
REP 3208141	QC																				
3208144	Drill Core	13	1.10	0.048	6.5	6.7	0.39	217	<0.001	0.16	<0.01	0.11	<0.5	<0.05	2.0	<0.5	0.43	<5	<2	87.70	2.55
REP 3208144	QC																			87.90	2.53
Core Reject Duplicates																					
3208105	Drill Core	46	0.17	0.071	26.9	12.3	0.25	792	0.004	0.57	<0.01	0.31	<0.5	<0.05	3.0	<0.5	0.89	<5	3	72.00	10.00
DUP 3208105	QC	41	0.13	0.073	26.0	10.3	0.26	717	0.002	0.49	<0.01	0.28	<0.5	<0.05	1.9	<0.5	0.88	<5	<2	71.80	9.84



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QUALITY CONTROL REPORT

WHI18000621.1

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3208103 Drill Core	5.37	0.27	0.66	2.75	0.12	0.58	0.19	0.01	0.68	<0.01	<0.01	<0.01	5.19	99.88	1.66	1.77	1.28
3208133 Rock	4.21	2.68	1.38	1.83	0.13	0.41	0.11	<0.01	0.08	<0.01	<0.01	<0.01	1.42	99.59	0.44	0.15	<0.02
Pulp Duplicates																	
3208087 Drill Core	3.59	0.68	0.66	2.03	0.03	0.46	0.23	0.02	1.23	<0.01	<0.01	0.06	6.34	99.72	0.52	2.99	2.22
REP 3208087 QC																	
3208104 Drill Core	6.66	0.24	0.66	2.53	0.17	0.53	0.16	0.01	0.61	<0.01	<0.01	<0.01	5.65	100.01	2.41	1.94	1.13
REP 3208104 QC	6.65	0.24	0.65	2.52	0.17	0.54	0.16	0.01	0.60	<0.01	<0.01	<0.01	5.65	99.96			
REP 3208105 QC															2.73		
3208110 Drill Core	6.80	0.27	0.55	2.86	0.17	0.60	0.18	0.01	0.68	<0.01	<0.01	0.06	6.08	100.12	2.34	2.01	1.28
REP 3208110 QC																	
3208115 Drill Core	3.71	0.23	0.45	2.94	0.05	0.61	0.17	0.02	0.55	<0.01	<0.01	<0.01	4.58	100.44	0.50	1.74	1.35
REP 3208115 QC	3.68	0.23	0.44	2.93	0.04	0.60	0.17	0.02	0.54	<0.01	<0.01	<0.01	4.58	99.57			
3208116 Drill Core	3.61	0.15	0.27	0.68	0.08	0.14	0.09	<0.01	0.15	<0.01	<0.01	<0.01	2.50	100.14	1.22	1.07	0.47
REP 3208116 QC																1.07	0.46
3208118 Drill Core	2.77	0.15	0.23	0.93	0.05	0.19	0.10	0.02	0.18	<0.01	<0.01	<0.01	3.13	99.77	0.64	1.99	0.54
REP 3208118 QC																	
3208134 Drill Core	5.67	0.36	0.46	1.38	0.13	0.29	0.13	<0.01	0.25	<0.01	<0.01	<0.01	3.93	99.93	2.25	1.59	0.63
REP 3208134 QC																	
3208135 Drill Core	7.41	1.33	0.81	0.61	0.19	0.12	0.11	<0.01	0.11	<0.01	0.01	0.02	4.91	100.57	4.30	1.95	0.41
REP 3208135 QC	7.29	1.32	0.79	0.61	0.18	0.12	0.11	<0.01	0.11	<0.01	<0.01	0.02	4.91	99.88			
3208136 Drill Core	4.81	0.22	0.61	2.80	0.09	0.58	0.14	0.01	0.44	<0.01	0.01	<0.01	4.50	100.66	1.62	1.52	0.78
REP 3208136 QC															1.58		
3208141 Drill Core	5.12	0.53	0.78	2.79	0.09	0.58	0.14	0.01	0.39	<0.01	<0.01	<0.01	5.05	99.90	2.20	1.74	0.74
REP 3208141 QC																	
3208144 Drill Core	3.79	1.59	0.74	0.70	0.08	0.14	0.12	<0.01	0.13	<0.01	0.01	<0.01	3.19	100.80	2.69	1.19	0.41
REP 3208144 QC	3.74	1.59	0.75	0.70	0.08	0.14	0.12	<0.01	0.13	<0.01	0.01	<0.01	3.19	100.93		1.19	0.40
Core Reject Duplicates																	
3208105 Drill Core	6.95	0.24	0.68	2.70	0.17	0.57	0.16	0.01	0.60	<0.01	<0.01	<0.01	5.85	100.08	2.76	2.06	0.85
DUP 3208105 QC	6.96	0.25	0.69	2.66	0.17	0.56	0.16	0.01	0.60	<0.01	<0.01	<0.01	5.88	99.72	2.76	2.09	0.86



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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
3208139	Drill Core	7.00	7	<3	5	3.1	65.3	22.2	108	<0.5	44.1	8.2	835	3.27	15	0.8	4.8	19	<0.5	4.2	<0.5
DUP 3208139	QC		8	<3	5	2.9	63.8	20.8	102	<0.5	43.5	8.4	819	3.34	14	0.9	4.8	18	<0.5	4.6	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard					934.0	3922.6	11709.2	5163	50.4	4157.7	1935.4	5233	3.89	6	0.6	0.8	14	9.9	7.5	14.1
STD GBM398-4-AR	Standard					923.3	3880.0	11488.2	5244	49.4	4220.5	1882.9	5437	4.20	6	0.7	0.8	15	9.1	7.1	14.6
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard					5.0	51298.9	862.9	2176	987.2	1551.7	95.4	94	3.69	1740	1.3	2.4	52	14.5	318.2	21.6
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard					1.0	10552.7	234.1	735	4.3	30.1	29.3	1181	8.39	13	1.9	13.0	13	1.1	1.3	74.1
STD PD05	Standard		527	457	637																
STD PD05	Standard		515	437	634																
STD PD05	Standard		525	438	620																
STD PG04	Standard		994	893	1208																
STD PG04	Standard		1009	938	1259																
STD PG04	Standard		1045	941	1276																
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					



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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
3208139	Drill Core	29	0.22	0.061	22.6	9.7	0.19	464	0.003	0.46	<0.01	0.29	<0.5	0.06	3.2	<0.5	0.72	<5	2	76.90	8.80
DUP 3208139	QC	30	0.20	0.059	22.6	9.6	0.18	455	0.002	0.43	<0.01	0.26	<0.5	0.08	2.9	<0.5	0.72	<5	<2	76.60	8.86
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard	31	0.34	0.021	2.5	1941.2	0.13	19	0.111	0.48	0.25	0.11	3.2	3.13	2.5	<0.5	0.97	<5	2		
STD GBM398-4-AR	Standard	24	0.34	0.020	2.7	1923.8	0.13	18	0.115	0.51	0.27	0.10	3.3	3.20	1.1	<0.5	0.95	<5	<2		
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																			33.80	6.83
STD OREAS133B(D)	Standard																			33.80	6.80
STD OREAS605	Standard	<10	0.16	0.009	7.9	27.6	0.03	258	0.010	0.73	0.03	0.15	7.4	1.80	1.4	17.3	7.94	7	79		
STD OREAS72B	Standard																			51.50	8.97
STD OREAS72B	Standard																			51.20	8.97
STD OREAS927-AR	Standard	34	0.31	0.056	30.1	42.5	1.92	51	0.106	3.24	<0.01	0.29	4.7	0.17	5.3	<0.5	1.78	9	14		
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.90	20.70
STD SY-4(D)	Standard																			49.90	20.60
STD GS311-1 Expected																					
STD GS910-4 Expected																					



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		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	
3208139	Drill Core	5.27	0.34	0.60	2.43	0.12	0.51	0.15	0.01	0.35	<0.01	<0.01	<0.01	4.45	100.04	1.98	1.57	0.71	
DUP 3208139	QC	5.37	0.32	0.60	2.47	0.12	0.52	0.14	0.01	0.35	<0.01	<0.01	<0.01	4.53	100.01	1.98	1.60	0.71	
Reference Materials																			
STD COO1	Standard																2.39		
STD COO1	Standard																2.25		
STD COO1	Standard																2.43		
STD COO1	Standard																2.36		
STD GBM398-4-AR	Standard																		
STD GBM398-4-AR	Standard																		
STD GS311-1	Standard																	1.01	2.33
STD GS311-1	Standard																	1.05	2.41
STD GS910-4	Standard																	2.68	8.21
STD GS910-4	Standard																	2.79	8.46
STD OREAS133B(D)	Standard	11.50	5.31	3.69	3.45	0.16	0.23	0.10	<0.01	0.07	0.03	5.01	11.41	13.00	97.69				
STD OREAS133B(D)	Standard	11.50	5.33	3.71	3.45	0.16	0.23	0.09	<0.01	0.07	0.03	5.01	11.33	13.00	97.62				
STD OREAS605	Standard																		
STD OREAS72B	Standard	9.87	3.99	15.80	1.32	0.14	0.35	0.06	0.14	0.03	0.02	<0.01	0.01	5.12	98.64				
STD OREAS72B	Standard	9.76	3.98	15.70	1.32	0.14	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.09				
STD OREAS927-AR	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PG04	Standard																		
STD PG04	Standard																		
STD PG04	Standard																		
STD SY-4(D)	Standard	6.19	8.00	0.52	1.66	0.10	0.30	0.16	<0.01	0.04	<0.01	<0.01	0.03	4.56	99.09				
STD SY-4(D)	Standard	6.18	8.05	0.52	1.66	0.10	0.29	0.16	<0.01	0.04	<0.01	<0.01	0.03	4.56	99.04				
STD GS311-1 Expected																		1.02	2.35
STD GS910-4 Expected																		2.65	8.27



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	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
STD OREAS605 Expected					4.75	49800	856	2170	984	1538	93	86	3.75	1613	0.95			12.9	228	16.7
STD COO1 Expected																				
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																				
STD PD05 Expected		519	430	596																
STD PG04 Expected		1004	903	1196																
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank		2	<3	<2																
BLK Blank		<2	<3	<2																
BLK Blank		<2	<3	<2																
BLK Blank		<2	<3	3																
BLK Blank					<0.5	<0.5	<0.5	<5	<0.5	0.8	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
BLK Blank																				
BLK Blank					<0.5	0.8	2.4	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
SI BLK Blank																				
SI BLK Blank																				
BLK Blank		<2	<3	<2																
BLK Blank		2	<3	<2																
Prep Wash																				
ROCK-WHI Prep Blank		<2	<3	<2	1.2	4.5	1.7	37	<0.5	1.2	3.5	643	1.94	<5	<0.5	2.2	28	<0.5	<0.5	<0.5
ROCK-WHI Prep Blank		<2	<3	<2	1.3	4.5	1.6	39	<0.5	0.8	3.9	607	1.94	<5	<0.5	2.3	30	<0.5	<0.5	<0.5



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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.



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		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	
STD OREAS605 Expected																			
STD COO1 Expected		2.37																	
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						
STD PD05 Expected																			
STD PG04 Expected																			
BLK	Blank																0.02		
BLK	Blank																	<0.02	<0.02
BLK	Blank																	<0.02	<0.02
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																0.04		
BLK	Blank																		
SI BLK	Blank	0.03	0.01	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	100.25				
SI BLK	Blank	0.02	0.01	0.02	<0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.59				
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	3.10	2.02	0.94	2.04	0.11	0.34	0.09	<0.01	0.10	<0.01	<0.01	<0.01	1.01	99.63	0.20	0.08	0.04	
ROCK-WHI	Prep Blank	3.14	2.13	0.94	2.09	0.10	0.35	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.97	100.03	0.26	0.08	0.04	