



**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: MacMillan Distribution List

Receiving Lab: Canada-Whitehorse

Received: June 21, 2018

Report Date: July 06, 2018

Page: 1 of 10

## CERTIFICATE OF ANALYSIS

WHI18000125.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-003  
P.O. Number  
Number of Samples: 270

### SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

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

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	264	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	6	Sort, label and box pulps			WHI
AQ250	270	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	270	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS



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



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Page:

2 of 10

Part:

1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198124	Soil	107.21	17.13	64.95	18.7	2089	2.6	0.4	25	3.88	219.6	4.9	1.5	7.1	81.6	0.22	38.12	0.51	300	0.01	0.421
3198125	Soil	114.42	17.17	82.66	17.4	3056	2.5	0.4	20	3.81	112.3	6.3	3.2	10.3	63.7	0.24	35.79	0.55	279	0.01	0.176
3198126	Soil	63.18	15.58	111.99	35.5	2211	2.4	0.1	8	1.99	3.4	14.2	<0.2	12.4	123.2	0.13	31.00	0.47	217	0.02	0.212
3198127	Soil	49.89	23.54	56.17	9.3	1747	2.0	0.3	11	1.80	60.1	2.3	4.6	7.8	10.3	0.15	49.17	0.44	172	<0.01	0.030
3198128	Soil	30.00	26.05	42.52	14.0	1929	2.8	0.8	34	1.95	37.3	2.5	3.6	3.3	9.6	0.09	24.56	0.26	177	0.02	0.033
3198129	Soil	22.09	17.28	39.62	29.4	860	8.1	2.3	81	2.04	41.0	3.0	2.9	6.2	20.7	0.16	16.53	0.41	110	0.02	0.040
3198130	Soil	21.39	20.12	41.33	29.7	1179	8.5	2.4	84	2.12	42.9	3.1	3.8	5.8	20.4	0.13	17.11	0.53	117	0.03	0.044
3198131	Soil	21.56	11.82	32.71	12.2	1155	2.3	0.8	46	1.13	16.2	1.2	2.9	1.5	16.6	0.06	15.88	0.41	61	0.02	0.041
3198132	Soil	22.32	11.24	32.88	13.1	1041	2.4	0.7	39	1.13	16.8	1.3	4.0	1.9	16.7	0.04	16.90	0.37	59	0.02	0.041
3198133	Soil	28.91	10.71	44.80	12.7	1676	2.7	0.7	40	1.34	20.8	1.5	4.8	5.3	19.3	0.09	23.93	0.46	54	0.02	0.042
3198134	Soil	22.83	12.04	38.78	15.1	1685	3.5	1.0	68	1.09	16.1	1.8	3.8	2.1	16.9	0.10	19.17	0.41	50	0.03	0.046
3198135	Soil	60.22	15.49	33.77	13.6	1941	2.8	0.6	28	1.55	26.9	5.6	1.1	8.7	31.5	0.13	34.79	0.46	145	0.01	0.053
3198136	Soil	91.14	19.42	54.48	24.7	2672	5.0	0.7	33	3.24	78.3	6.9	2.4	8.8	73.5	0.16	39.70	0.61	208	0.02	0.097
3198137	Soil	49.81	19.50	35.05	29.0	1543	7.3	1.0	47	1.99	42.6	4.8	3.3	2.1	51.6	0.09	21.58	0.40	150	0.04	0.084
3198138	Soil	69.22	20.90	47.06	40.0	1749	7.1	1.0	37	2.54	52.3	6.2	4.7	2.6	72.4	0.16	27.96	0.54	198	0.04	0.114
3198139	Soil	64.14	21.33	41.13	52.5	1967	8.7	1.1	25	2.56	56.1	5.3	5.3	2.4	59.5	0.19	25.14	0.42	166	0.02	0.094
3198140	Soil	29.03	15.74	24.08	32.6	890	5.1	1.0	76	1.14	24.2	2.9	2.5	0.2	30.3	0.10	13.35	0.28	76	0.02	0.065
3198141	Soil	21.21	9.78	16.55	19.2	767	3.8	0.8	31	0.88	20.7	2.5	1.2	<0.1	27.4	0.08	9.30	0.18	57	0.03	0.050
3198142	Soil	53.66	18.36	41.52	47.8	1366	9.6	1.2	68	2.09	54.0	6.0	2.9	0.6	67.6	0.16	21.89	0.43	145	0.02	0.095
3198143	Soil	1.88	5.41	4.09	3.6	263	1.1	0.6	29	0.31	2.8	0.5	<0.2	<0.1	8.1	0.03	0.76	0.06	11	0.07	0.040
3198144	Soil	48.44	17.37	35.28	66.2	2055	8.7	0.9	29	1.56	46.0	3.4	5.6	0.5	54.6	0.12	22.77	0.37	103	0.01	0.083
3198145	Soil	4.41	41.57	131.23	17.5	796	9.4	0.4	7	1.44	125.3	4.0	8.8	10.6	103.6	0.05	26.53	1.09	52	0.02	0.088
3198146	Soil	5.04	39.85	104.85	15.8	1800	6.8	0.9	39	1.26	68.0	4.0	45.3	7.8	52.2	0.04	7.79	0.29	39	0.02	0.079
3198147	Soil	9.34	49.78	102.10	15.6	2500	11.5	1.2	46	1.89	76.6	3.9	24.5	10.4	31.0	0.06	9.71	0.47	49	0.01	0.087
3198148	Soil	12.65	86.02	123.41	23.9	2061	14.8	3.2	159	3.48	114.9	3.7	26.0	9.0	40.6	0.05	13.80	0.74	80	0.01	0.118
3198149	Soil	25.58	42.85	113.98	11.4	1482	2.4	0.7	31	2.46	89.7	2.2	11.6	9.9	29.8	0.06	20.69	0.44	53	<0.01	0.055
3198150	Soil	15.17	130.08	220.84	25.9	2831	11.1	2.0	121	4.80	177.3	6.3	11.5	8.8	84.8	0.07	11.98	1.92	105	0.02	0.232
3198151	Soil	11.45	54.36	1350.72	14.6	1608	5.8	0.8	47	2.28	112.8	4.3	7.7	8.5	52.4	0.07	15.06	1.15	67	0.01	0.114
3198152	Soil	11.69	25.46	630.62	8.2	1505	2.2	0.4	23	1.51	102.3	5.5	7.4	11.8	35.1	0.07	13.64	0.40	39	<0.01	0.062
3198153	Soil	11.89	32.40	688.36	9.0	1903	2.3	0.6	30	1.66	115.6	5.1	6.6	10.2	35.2	0.05	13.66	0.36	38	0.02	0.069



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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 2 of 10

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3198124	Soil	14.5	30.7	0.03	1395.5	0.024	<20	0.23	0.003	0.38	1.5	2.8	2.55	0.64	506	34.0	0.54
3198125	Soil	13.4	26.3	0.03	363.7	0.026	<20	0.22	0.004	0.43	1.3	1.9	2.84	0.79	628	56.5	0.44
3198126	Soil	15.7	24.8	0.03	2156.9	0.013	<20	0.53	0.003	0.24	1.1	4.2	1.18	0.40	883	94.9	0.59
3198127	Soil	31.3	14.6	0.02	3142.5	0.011	<20	0.22	0.003	0.12	<0.1	1.8	0.39	0.13	437	31.8	0.40
3198128	Soil	10.8	12.9	0.03	390.2	0.011	<20	0.24	0.007	0.06	0.2	1.2	0.26	0.05	214	28.7	0.26
3198129	Soil	16.2	13.2	0.12	606.2	0.020	<20	0.43	0.002	0.12	0.2	1.5	0.54	0.12	247	20.8	0.24
3198130	Soil	15.7	14.3	0.12	600.2	0.019	<20	0.46	0.003	0.12	0.1	1.5	0.54	0.12	314	19.2	0.20
3198131	Soil	14.5	6.2	0.03	336.1	0.014	<20	0.30	0.010	0.11	0.2	0.6	0.78	0.13	68	11.1	0.13
3198132	Soil	14.2	5.9	0.03	324.2	0.013	<20	0.25	0.007	0.11	0.2	0.6	0.80	0.14	81	11.7	0.19
3198133	Soil	12.3	7.5	0.03	460.9	0.017	<20	0.23	0.007	0.15	0.2	1.0	1.17	0.23	157	27.9	0.20
3198134	Soil	14.6	6.5	0.04	431.7	0.016	<20	0.37	0.009	0.11	0.2	0.8	0.80	0.12	71	19.5	0.24
3198135	Soil	22.7	10.5	0.03	1533.6	0.017	<20	0.31	0.003	0.14	0.5	1.9	1.07	0.15	439	30.8	0.44
3198136	Soil	12.7	18.3	0.03	1081.1	0.033	<20	0.46	0.010	0.32	0.6	2.6	3.09	0.64	952	51.6	0.93
3198137	Soil	14.2	15.0	0.03	1225.7	0.018	<20	0.54	0.013	0.18	0.2	1.7	1.52	0.26	194	23.0	0.27
3198138	Soil	18.3	17.2	0.03	2067.5	0.020	<20	0.48	0.006	0.22	0.2	1.9	1.90	0.34	203	31.1	0.46
3198139	Soil	17.3	16.4	0.03	1166.1	0.014	<20	0.38	0.002	0.20	0.3	1.8	1.89	0.29	345	29.2	0.45
3198140	Soil	9.1	9.6	0.02	548.1	0.011	<20	0.42	0.014	0.09	0.3	0.5	0.78	0.13	102	12.3	0.16
3198141	Soil	7.7	7.2	0.02	332.6	0.010	<20	0.40	0.015	0.05	0.2	0.4	0.54	0.08	43	7.8	0.16
3198142	Soil	16.5	15.4	0.02	752.9	0.015	<20	0.43	0.005	0.14	0.4	0.9	1.26	0.20	84	20.9	0.43
3198143	Soil	2.0	2.4	0.02	63.9	0.013	<20	0.40	0.026	0.03	<0.1	0.2	0.07	<0.02	15	0.8	<0.02
3198144	Soil	12.1	12.7	0.04	745.0	0.009	<20	0.33	0.006	0.12	0.3	0.7	1.55	0.16	225	17.9	0.24
3198145	Soil	40.9	18.2	<0.01	646.9	0.001	<20	0.61	0.001	0.06	<0.1	6.1	0.20	<0.02	65	5.8	0.15
3198146	Soil	36.6	20.3	0.03	818.4	0.005	<20	0.49	0.004	0.05	<0.1	4.2	0.13	<0.02	74	7.5	0.13
3198147	Soil	40.6	16.7	0.04	431.8	0.006	<20	0.57	0.004	0.10	<0.1	4.0	0.29	0.11	194	9.1	0.15
3198148	Soil	32.4	24.0	0.06	395.2	0.010	<20	0.83	0.006	0.06	0.2	4.9	0.36	0.08	150	9.9	0.21
3198149	Soil	39.9	11.0	0.02	301.5	0.006	<20	0.38	0.004	0.05	<0.1	2.6	0.35	0.03	87	20.3	0.29
3198150	Soil	29.9	36.0	0.07	615.4	0.007	<20	0.85	0.008	0.14	<0.1	5.9	0.89	0.23	125	12.5	0.24
3198151	Soil	30.1	22.5	0.04	459.6	0.004	<20	0.39	0.003	0.12	<0.1	5.2	0.46	0.15	80	11.6	0.29
3198152	Soil	46.4	17.2	0.02	514.0	0.006	<20	0.23	0.002	0.16	<0.1	5.6	0.43	0.25	70	11.6	0.18
3198153	Soil	32.7	15.3	0.02	466.5	0.008	<20	0.30	0.008	0.18	<0.1	4.4	0.38	0.27	80	9.8	0.23



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Page:

3 of 10

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1 of 2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198154	Soil	16.17	61.09	688.77	28.3	3668	5.3	0.8	51	2.76	332.1	3.6	14.0	11.3	97.6	0.12	16.44	0.52	77	0.02	0.153
3198155	Soil	19.15	78.54	6140.05	50.0	10896	4.3	0.7	27	2.59	180.5	3.0	8.1	10.4	47.2	0.49	30.94	0.47	79	0.01	0.136
3198156	Soil	9.10	34.81	2060.38	16.4	9340	4.0	0.8	69	1.07	109.6	3.1	13.1	1.4	25.8	0.07	13.46	0.19	30	0.05	0.091
3198157	Soil	15.84	46.51	2038.25	30.5	5060	2.9	0.7	44	1.28	65.2	1.8	6.7	4.8	28.1	0.13	19.41	0.24	39	0.05	0.092
3198158	Soil	14.28	72.14	3732.10	60.6	7891	7.3	1.5	88	2.57	175.9	2.3	12.8	8.4	47.4	0.39	26.66	0.39	63	0.02	0.139
3198159	Soil	6.89	40.68	1504.68	38.8	5548	6.0	1.3	78	1.38	99.7	1.3	7.0	1.8	25.2	0.16	13.08	0.18	31	0.06	0.090
3198160	Rock Pulp	0.61	23.55	2.00	21.2	25	15.8	5.3	258	1.37	0.9	0.4	1.0	2.9	26.1	0.03	0.08	0.10	21	0.57	0.058
3198161	Soil	10.43	63.89	2475.24	149.1	4286	10.4	2.0	84	3.05	117.6	1.3	9.3	4.9	22.9	0.15	18.20	0.31	43	<0.01	0.089
3198162	Soil	10.41	65.15	2574.34	162.1	4442	10.8	1.9	83	3.15	124.3	1.2	8.0	5.2	23.0	0.17	17.80	0.30	44	<0.01	0.094
3198163	Soil	11.07	47.63	1409.84	92.4	3204	9.1	2.0	118	2.68	97.6	1.3	9.5	3.2	36.7	0.13	15.32	0.35	43	0.01	0.088
3198164	Soil	11.81	50.41	1052.68	78.0	2563	9.6	1.8	76	3.28	79.8	1.1	10.0	5.4	61.3	0.12	12.54	0.41	40	0.01	0.117
3198165	Soil	34.26	109.08	2762.95	327.4	3667	18.9	2.0	90	4.05	158.3	4.1	14.1	7.5	90.1	0.43	37.06	0.62	189	0.02	0.244
3198166	Soil	27.91	84.48	>10000	570.5	2066	7.8	0.8	38	2.52	146.2	5.5	23.4	5.8	183.0	0.40	25.97	0.40	416	0.02	0.227
3198167	Soil	19.51	61.21	6377.63	356.5	2180	6.8	1.1	51	2.17	105.3	3.3	18.4	6.0	129.0	0.33	20.99	0.34	304	0.03	0.176
3198168	Soil	15.68	60.66	2421.29	159.9	3678	9.8	1.5	66	3.25	126.3	1.8	8.0	7.6	69.4	0.26	19.80	0.47	63	<0.01	0.136
3198169	Soil	17.93	71.43	2342.13	176.0	4367	16.2	2.3	127	3.91	151.1	2.2	13.5	7.1	65.8	0.25	19.03	0.53	76	0.02	0.168
3198170	Soil	20.90	74.05	3440.66	271.0	4143	14.6	1.8	102	3.89	147.5	2.3	13.6	4.8	66.7	0.27	22.01	0.41	98	0.02	0.171
3198171	Soil	2.26	6.21	350.40	13.4	1150	1.9	0.5	12	0.39	16.3	0.4	1.9	<0.1	9.9	0.03	2.75	0.21	14	0.01	0.038
3198172	Soil	1.17	3.57	141.53	5.3	1155	0.6	0.2	6	0.23	4.0	0.3	0.3	<0.1	6.0	<0.01	0.70	0.12	6	0.02	0.030
3198173	Soil	8.92	8.65	282.44	27.9	1322	3.0	0.6	15	0.60	21.7	0.5	1.0	<0.1	12.7	0.03	3.81	0.10	32	<0.01	0.035
3198174	Soil	7.11	46.87	60.25	52.7	903	12.3	2.9	159	2.36	69.9	2.9	7.9	0.6	31.1	0.14	8.71	0.39	63	0.03	0.102
3198175	Soil	7.11	50.35	67.98	49.7	1427	12.4	3.8	300	2.23	65.4	3.0	8.4	0.5	28.6	0.12	7.04	0.37	59	0.03	0.110
3198176	Soil	33.96	43.79	219.52	5.5	2466	1.7	0.4	15	2.09	30.3	4.6	7.4	13.0	69.7	0.26	21.05	0.59	91	<0.01	0.070
3198177	Soil	49.87	19.01	229.36	3.3	1320	0.9	0.2	7	1.70	28.0	3.9	4.8	13.7	45.2	0.10	13.85	0.49	54	<0.01	0.043
3198178	Soil	20.92	20.62	103.17	22.4	862	6.4	1.4	49	1.42	24.3	2.7	4.6	6.9	24.4	0.10	9.18	0.30	42	0.03	0.048
3198179	Soil	28.63	21.97	156.51	13.3	980	4.2	0.8	26	1.57	45.9	4.2	5.1	9.0	27.7	0.06	9.05	0.35	54	0.02	0.051
3198180	Soil	29.32	24.07	153.62	17.5	1120	4.9	0.9	35	1.53	38.1	4.3	5.2	8.2	32.1	0.12	10.17	0.38	50	0.02	0.050
3198181	Soil	15.25	6.17	114.74	6.3	762	1.8	0.4	25	0.52	9.5	1.4	3.3	5.3	10.0	0.04	6.14	0.31	20	<0.01	0.017
3198182	Soil	145.68	10.43	108.17	6.1	4368	1.4	0.3	6	16.74	99.5	0.5	0.9	5.7	5.2	0.17	47.69	1.37	171	<0.01	0.055
3198183	Soil	27.94	5.77	86.96	1.4	446	0.7	<0.1	1	2.51	18.4	0.7	0.4	5.8	4.2	0.05	9.02	0.48	16	<0.01	0.010



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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 3 of 10

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3198154	Soil	44.5	20.3	0.02	2459.8	0.005	<20	0.49	0.005	0.16	<0.1	16.5	0.64	0.23	191	9.3	0.22
3198155	Soil	28.5	18.0	0.01	1909.9	0.005	<20	0.55	0.003	0.19	0.1	5.4	0.94	0.34	1744	7.2	0.22
3198156	Soil	18.2	11.9	0.02	1110.3	0.011	<20	0.37	0.020	0.11	0.1	4.3	0.33	0.12	688	4.1	0.10
3198157	Soil	19.4	8.0	0.02	1123.9	0.010	<20	0.39	0.010	0.11	0.1	3.0	0.47	0.16	2843	4.1	0.14
3198158	Soil	29.8	14.6	0.02	933.4	0.006	<20	0.54	0.005	0.15	0.1	4.6	0.64	0.22	402	6.2	0.16
3198159	Soil	16.7	8.6	0.03	424.4	0.011	<20	0.48	0.017	0.06	<0.1	1.8	0.30	0.09	203	2.6	0.10
3198160	Rock Pulp	15.6	25.1	0.42	56.2	0.060	<20	0.67	0.069	0.11	<0.1	2.3	0.06	<0.02	10	<0.1	0.02
3198161	Soil	22.0	9.0	0.01	274.5	0.004	<20	0.28	0.005	0.08	<0.1	2.2	0.34	0.15	471	6.3	0.23
3198162	Soil	22.5	8.7	0.01	280.0	0.004	<20	0.28	0.006	0.08	<0.1	2.4	0.34	0.15	506	6.5	0.12
3198163	Soil	24.2	8.6	0.02	1228.2	0.005	<20	0.34	0.006	0.08	0.1	1.8	0.36	0.16	175	6.1	0.14
3198164	Soil	22.2	9.5	0.02	2377.3	0.003	<20	0.48	0.005	0.12	0.1	2.1	0.67	0.24	362	6.1	0.28
3198165	Soil	16.4	34.0	0.02	2076.3	0.024	<20	2.12	0.005	0.21	0.4	6.7	3.13	0.40	24492	10.5	0.25
3198166	Soil	16.4	71.7	0.01	2088.9	0.097	<20	0.84	0.003	0.05	2.0	7.6	3.62	0.27	3942	12.1	0.21
3198167	Soil	16.5	51.8	0.01	2116.9	0.075	<20	0.56	0.005	0.06	1.3	4.5	2.14	0.22	2653	8.4	0.16
3198168	Soil	25.2	13.9	0.02	2614.7	0.006	<20	0.60	0.003	0.15	0.1	3.5	0.98	0.28	985	6.6	0.25
3198169	Soil	27.3	18.8	0.06	1608.7	0.009	<20	0.86	0.006	0.17	0.1	3.6	1.06	0.29	660	8.6	0.18
3198170	Soil	24.0	19.7	0.04	2871.5	0.012	<20	0.86	0.005	0.12	0.2	3.4	1.26	0.27	1079	8.1	0.21
3198171	Soil	3.8	3.4	<0.01	279.4	0.005	<20	0.11	0.016	0.03	<0.1	0.5	0.12	0.04	178	0.6	0.02
3198172	Soil	1.7	1.3	<0.01	74.7	0.005	<20	0.30	0.022	0.02	<0.1	0.2	0.05	0.02	61	0.1	0.04
3198173	Soil	9.3	3.5	<0.01	166.2	0.005	<20	0.20	0.014	0.03	0.1	0.3	0.13	0.02	66	1.1	0.04
3198174	Soil	25.0	23.6	0.12	276.9	0.014	<20	0.69	0.005	0.08	0.2	1.3	0.27	0.11	123	3.3	0.15
3198175	Soil	23.7	25.4	0.09	291.4	0.011	<20	0.68	0.004	0.09	0.2	1.4	0.31	0.11	176	3.1	0.13
3198176	Soil	28.5	23.4	0.02	751.5	0.003	<20	0.24	0.015	0.17	<0.1	2.5	0.92	0.35	963	13.1	0.32
3198177	Soil	23.0	13.0	<0.01	430.7	0.002	<20	0.19	0.024	0.15	<0.1	3.2	1.02	0.33	1102	13.7	0.34
3198178	Soil	32.2	12.6	0.08	204.9	0.013	<20	0.37	0.008	0.07	<0.1	2.2	0.45	0.10	365	6.1	0.24
3198179	Soil	34.4	16.1	0.04	256.7	0.007	<20	0.27	0.008	0.09	<0.1	2.5	0.54	0.13	803	10.3	0.18
3198180	Soil	35.4	14.6	0.05	287.7	0.009	<20	0.31	0.008	0.08	<0.1	2.5	0.56	0.12	821	9.3	0.21
3198181	Soil	36.0	5.6	0.03	78.8	0.003	<20	0.26	0.005	0.07	<0.1	0.9	0.47	0.03	292	3.9	0.34
3198182	Soil	11.3	16.1	<0.01	44.7	0.011	<20	0.16	0.004	0.06	0.1	0.9	1.16	0.18	857	50.0	0.54
3198183	Soil	24.9	2.9	<0.01	583.0	0.002	<20	0.11	0.003	0.04	<0.1	0.5	0.32	0.03	1117	8.1	0.22



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Page:

4 of 10

Part:

1 of 2

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WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198184	Soil	40.83	20.59	222.61	9.0	2150	2.4	0.7	34	1.26	27.7	4.5	14.2	9.3	19.9	0.11	21.88	0.48	42	<0.01	0.028
3198185	Soil	31.93	16.71	150.74	9.7	1289	2.7	0.7	31	1.00	20.4	3.1	10.9	7.2	12.7	0.11	18.33	0.28	32	0.02	0.028
3198186	Soil	34.82	17.83	191.66	8.5	3997	3.6	0.6	22	2.32	69.1	2.6	4.6	8.7	19.4	0.09	13.67	0.42	54	<0.01	0.047
3198187	Soil	15.76	19.17	254.50	17.9	3545	6.5	1.2	52	3.11	226.8	8.4	27.9	8.0	61.4	0.08	17.35	0.33	76	0.02	0.108
3198188	Soil	10.58	12.07	431.48	13.9	4706	3.2	0.6	23	2.03	356.0	2.0	21.4	10.8	46.9	0.07	7.42	0.43	46	<0.01	0.076
3198189	Soil	13.29	53.30	255.22	69.0	3843	17.2	5.2	227	5.44	774.1	3.8	48.9	6.8	58.5	0.35	14.07	0.41	132	0.04	0.149
3198190	Soil	6.52	85.29	93.86	95.9	1097	27.0	6.1	171	3.77	52.5	1.8	7.1	0.9	56.7	0.28	5.24	0.38	41	0.05	0.143
3198191	Soil	11.85	131.07	159.87	126.4	1860	42.8	11.3	674	4.89	119.6	2.6	10.4	5.9	186.5	0.64	9.75	0.60	73	0.08	0.184
3198192	Soil	9.01	84.61	95.50	216.3	2237	63.8	16.0	2327	10.20	120.6	2.3	15.6	3.2	34.2	1.54	8.10	0.34	80	0.19	0.097
3198193	Soil	10.37	120.63	115.66	430.8	2243	51.7	13.0	1936	7.77	152.2	2.1	7.0	2.7	39.6	2.37	25.21	0.29	90	0.16	0.106
3198194	Soil	7.56	755.31	120.51	388.7	2567	46.9	14.5	1629	6.70	135.1	1.6	8.4	1.0	24.0	1.60	29.41	0.31	65	0.02	0.115
3198195	Soil	0.89	60.71	135.09	18.8	698	2.6	1.3	151	0.61	11.2	0.4	2.0	<0.1	7.9	0.10	1.71	0.04	11	0.08	0.048
3198196	Soil	1.65	6.99	3.86	6.5	126	1.5	0.7	18	0.39	4.1	0.4	0.4	<0.1	7.6	0.05	0.90	0.25	14	0.06	0.046
3198197	Soil	19.98	12.81	20.99	35.1	317	5.6	1.1	29	1.83	43.9	1.4	2.9	0.3	18.4	0.09	13.60	0.26	105	0.02	0.059
3198198	Soil	2.98	8.14	7.71	8.0	588	2.7	0.3	10	0.40	5.2	2.0	1.5	<0.1	14.7	0.08	1.18	0.19	22	0.03	0.052
3198199	Soil	5.74	10.88	10.69	12.5	622	4.5	0.9	38	0.66	11.8	2.3	1.7	<0.1	19.3	0.08	2.65	0.15	37	0.07	0.074
3198200	Soil	1.52	6.40	4.14	6.9	66	1.7	0.5	25	0.49	2.8	0.5	1.3	<0.1	8.1	0.05	0.79	0.14	12	0.04	0.040
3198201	Soil	6.82	14.01	16.18	19.4	322	6.9	2.4	144	1.02	11.5	1.9	1.6	0.2	14.6	0.09	4.11	0.16	42	0.05	0.070
3198202	Soil	3.33	5.64	4.47	6.7	174	1.8	0.5	13	0.43	5.2	0.5	0.4	<0.1	9.6	0.04	2.25	0.08	20	0.04	0.036
3198203	Soil	27.53	14.51	25.47	32.7	236	5.9	1.4	30	1.78	42.9	1.5	0.2	0.2	22.8	0.09	15.38	0.34	113	0.02	0.057
3198204	Soil	49.01	15.36	52.42	32.9	1451	7.1	1.9	51	4.13	73.0	1.5	4.5	3.2	15.7	0.13	34.80	0.36	172	0.02	0.055
3198205	Soil	65.76	23.02	58.04	37.4	5623	8.6	2.3	59	4.19	106.0	2.7	6.0	7.1	19.1	0.12	44.47	0.39	214	0.02	0.070
3198206	Soil	27.73	13.50	37.59	47.5	1519	6.7	1.3	30	2.15	40.1	1.7	4.4	0.9	37.3	0.10	18.00	0.40	134	0.01	0.063
3198207	Soil	2.85	8.24	5.42	10.6	215	1.9	0.7	33	0.48	4.4	0.5	<0.2	<0.1	8.1	0.03	1.82	0.10	20	0.04	0.039
3198208	Soil	15.29	14.34	20.39	34.1	276	6.2	1.7	69	1.62	23.6	1.1	<0.2	0.2	13.2	0.07	8.99	0.28	86	0.02	0.051
3198209	Soil	39.98	18.96	44.08	35.0	1063	9.9	1.0	32	2.62	55.7	2.1	4.7	1.3	47.7	0.09	31.35	0.51	137	0.01	0.075
3198210	Soil	41.04	18.14	37.40	32.2	1177	12.8	1.3	63	2.73	55.6	3.5	4.3	5.6	106.8	0.13	35.42	0.40	108	0.05	0.211
3198211	Soil	31.44	15.22	28.62	14.8	973	3.2	0.8	36	1.32	30.0	1.7	4.8	4.2	14.9	0.08	25.32	0.35	72	0.02	0.048
3198212	Soil	27.86	19.55	56.48	24.5	1968	6.4	1.4	84	1.66	35.9	2.9	3.7	4.6	35.4	0.07	19.87	0.46	88	0.03	0.068
3198213	Soil	51.47	36.44	29.46	190.9	1672	16.6	2.2	88	7.34	92.9	5.2	1.5	4.8	66.7	0.35	43.52	0.33	176	0.01	0.270



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**Page:** 4 of 10

**Part:** 2 of 2

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3198184	Soil	26.1	10.6	0.03	217.2	0.004	<20	0.29	0.006	0.10	<0.1	2.3	0.86	0.12	1102	14.7	0.34	3.9
3198185	Soil	33.1	8.3	0.03	127.6	0.006	<20	0.19	0.004	0.06	<0.1	1.5	0.42	0.09	343	10.9	0.27	2.3
3198186	Soil	23.5	16.7	0.03	303.8	0.005	<20	0.26	0.006	0.26	<0.1	2.8	1.20	0.43	305	9.7	0.26	3.3
3198187	Soil	37.7	23.2	0.06	746.9	0.011	<20	0.37	0.004	0.25	0.1	5.4	0.58	0.37	183	4.5	0.23	4.3
3198188	Soil	66.7	12.9	0.02	648.3	0.005	<20	0.24	0.002	0.19	0.1	2.5	0.45	0.30	111	5.2	0.19	2.2
3198189	Soil	29.9	27.6	0.17	465.1	0.021	<20	0.73	0.003	0.14	0.2	5.0	0.63	0.18	235	6.9	0.19	3.6
3198190	Soil	20.3	10.5	0.06	209.4	0.008	<20	0.64	0.013	0.07	<0.1	2.8	0.36	0.08	87	4.8	0.18	1.9
3198191	Soil	36.3	23.5	0.05	903.9	0.004	<20	0.74	0.003	0.12	0.1	7.7	0.83	0.11	81	7.0	0.26	2.0
3198192	Soil	16.1	21.4	0.10	1037.1	0.005	<20	0.83	0.002	0.06	0.2	7.3	0.47	0.06	163	4.4	0.16	1.8
3198193	Soil	17.6	19.3	0.08	1338.6	0.006	<20	0.89	0.002	0.06	0.2	6.4	0.39	0.08	90	4.0	0.19	2.1
3198194	Soil	16.7	16.3	0.07	308.0	0.009	<20	0.72	0.006	0.06	0.1	4.6	0.41	0.07	57	3.5	0.16	2.5
3198195	Soil	3.0	2.4	0.02	76.6	0.013	<20	0.50	0.019	0.02	<0.1	0.6	0.06	0.03	56	0.3	<0.02	1.7
3198196	Soil	2.5	2.8	0.02	65.6	0.012	<20	0.51	0.022	0.03	<0.1	0.3	0.04	0.03	27	0.9	0.06	2.4
3198197	Soil	14.0	10.0	0.03	422.0	0.010	<20	0.47	0.003	0.08	0.2	0.6	0.30	0.07	29	11.2	0.17	3.6
3198198	Soil	3.7	6.1	0.03	318.1	0.007	<20	0.52	0.022	0.04	0.1	0.3	0.23	0.05	78	1.9	0.06	2.3
3198199	Soil	4.2	10.1	0.04	358.0	0.012	<20	0.61	0.025	0.05	0.2	0.7	0.27	0.05	83	2.9	0.05	2.4
3198200	Soil	2.4	3.3	0.02	119.3	0.017	<20	0.73	0.025	0.04	<0.1	0.4	0.05	0.04	41	1.3	0.07	3.2
3198201	Soil	6.1	12.2	0.05	309.4	0.016	<20	0.56	0.023	0.06	0.2	0.6	0.18	0.06	50	3.5	0.05	2.9
3198202	Soil	3.0	2.8	0.02	192.1	0.010	<20	0.53	0.024	0.03	<0.1	0.3	0.07	0.03	24	1.9	0.05	2.2
3198203	Soil	16.1	10.7	0.02	669.2	0.013	<20	0.40	0.001	0.05	0.3	0.7	0.25	0.04	22	10.6	0.28	4.3
3198204	Soil	9.5	23.3	0.10	347.4	0.048	<20	0.45	0.002	0.18	0.3	1.1	0.74	0.26	83	33.7	0.46	5.8
3198205	Soil	10.4	32.0	0.15	366.6	0.043	<20	0.78	0.002	0.12	0.3	1.8	0.73	0.16	487	47.6	0.61	5.8
3198206	Soil	16.1	12.8	0.03	448.4	0.012	<20	0.54	0.002	0.10	0.2	1.0	0.50	0.10	211	16.3	0.16	4.5
3198207	Soil	3.2	3.1	0.03	60.3	0.012	<20	0.56	0.023	0.04	<0.1	0.3	0.07	0.03	18	1.6	0.06	2.0
3198208	Soil	13.2	10.0	0.04	217.7	0.014	<20	0.52	0.005	0.05	0.2	0.6	0.26	0.04	30	7.1	0.11	3.3
3198209	Soil	20.9	11.4	0.05	355.5	0.009	<20	0.43	0.004	0.09	0.4	1.1	0.57	0.07	158	27.6	0.38	3.3
3198210	Soil	21.7	22.7	0.07	400.2	0.015	<20	0.50	0.004	0.09	0.3	4.4	0.44	0.05	107	30.9	0.53	3.3
3198211	Soil	11.4	8.8	0.04	385.2	0.012	<20	0.28	0.004	0.09	0.2	1.3	0.33	0.05	83	21.6	0.21	2.3
3198212	Soil	15.3	12.4	0.09	532.9	0.015	<20	0.45	0.006	0.12	0.2	1.8	0.58	0.14	136	16.7	0.22	3.2
3198213	Soil	11.1	26.9	0.06	1551.8	0.049	<20	0.54	0.007	0.16	0.7	1.7	2.75	0.44	111	32.2	0.50	3.1



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Project:

MacMillan Pass

Report Date:

July 06, 2018

Page:

5 of 10

Part:

1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198214	Soil	41.28	24.78	44.86	84.2	1004	11.6	2.3	129	3.06	42.8	3.2	1.8	0.3	73.5	0.22	17.78	0.40	139	0.03	0.149
3198215	Soil	24.35	22.14	24.86	48.7	895	7.3	1.5	79	1.80	25.7	2.0	1.1	0.3	44.8	0.11	12.18	0.23	81	0.06	0.110
3198216	Soil	56.24	29.91	43.43	92.8	1993	17.4	2.1	97	3.52	71.5	10.2	1.4	1.8	212.4	0.25	20.33	0.35	208	0.06	0.244
3198217	Soil	18.29	13.86	13.74	20.1	639	3.7	0.9	45	1.00	20.1	1.9	1.5	0.4	18.1	0.04	6.49	0.11	51	0.07	0.075
3198218	Soil	77.35	33.97	59.46	48.0	2237	8.8	1.3	57	2.52	72.7	7.3	1.7	2.7	56.3	0.17	26.24	0.43	181	0.03	0.125
3198219	Soil	3.25	14.93	11.35	10.4	187	2.3	1.3	35	0.67	6.0	0.6	0.9	<0.1	12.8	0.04	1.23	0.06	20	0.13	0.082
3198220	Rock Pulp	12.61	162.86	280.04	219.5	105	79.5	49.0	287	1.64	9.7	0.5	36.8	3.4	33.5	0.48	0.19	0.15	25	0.57	0.058
3198221	Soil	44.23	23.48	112.53	15.8	1290	2.8	0.4	21	1.82	40.8	6.9	<0.2	10.4	84.4	0.05	19.30	0.46	72	0.01	0.084
3198222	Soil	6.28	10.62	106.86	19.4	153	2.8	0.9	42	0.60	11.2	0.5	0.4	0.1	12.0	0.04	2.13	0.10	23	0.07	0.059
3198223	Soil	28.13	31.96	420.44	83.3	404	12.6	3.0	108	2.47	39.0	1.8	1.0	0.3	31.4	0.17	6.78	0.41	98	0.02	0.091
3198224	Soil	2.54	6.03	89.05	9.7	428	1.1	1.0	72	0.46	6.0	0.3	<0.2	<0.1	10.0	0.08	0.91	0.07	18	0.07	0.053
3198225	Soil	27.76	19.18	481.62	64.8	929	7.9	1.6	56	1.73	45.0	1.3	<0.2	0.5	35.5	0.20	7.54	0.31	100	0.01	0.079
3198226	Soil	30.49	120.98	52.81	21.6	4006	11.8	0.8	17	3.56	25.5	14.7	5.9	8.4	56.6	0.06	11.80	0.44	149	0.01	0.130
3198227	Soil	93.26	108.12	49.44	21.8	2885	6.9	1.2	34	3.45	65.8	15.6	3.6	3.1	24.4	0.20	22.95	0.40	227	0.03	0.093
3198228	Soil	85.99	77.91	45.36	26.1	2670	4.5	0.7	25	5.23	67.1	16.2	7.0	2.6	21.1	0.15	25.35	0.69	435	0.01	0.159
3198229	Soil	209.71	113.68	45.14	24.8	6442	7.8	1.1	31	4.72	111.9	12.5	4.3	4.2	9.9	0.35	34.30	0.48	511	0.01	0.104
3198230	Soil	143.52	60.85	105.42	22.9	8108	2.3	0.4	19	3.54	135.4	30.5	1.5	8.9	37.3	0.22	40.25	0.61	471	<0.01	0.133
3198231	Soil	228.54	29.88	45.56	11.3	5742	4.3	0.5	12	2.84	90.5	7.1	<0.2	6.4	20.8	0.32	34.06	0.65	256	<0.01	0.071
3198232	Soil	368.67	40.41	97.31	7.2	6892	3.3	0.3	10	5.41	185.0	9.6	3.2	10.9	52.4	0.60	87.56	1.15	321	<0.01	0.079
3198233	Soil	369.51	41.71	110.73	6.3	7227	3.4	0.3	10	5.49	182.6	10.8	3.2	12.2	56.7	0.51	87.83	1.36	319	<0.01	0.083
3198234	Soil	199.54	20.70	63.33	4.8	1886	1.2	0.2	9	3.96	85.4	7.2	2.8	10.8	57.5	0.32	53.51	0.76	199	<0.01	0.073
3198235	Soil	195.54	21.43	69.89	4.5	2002	1.1	0.1	8	4.49	92.3	6.5	4.1	12.8	62.7	0.31	53.91	0.87	206	<0.01	0.083
3198236	Soil	55.55	22.44	30.61	12.3	1631	2.2	0.9	36	2.24	52.9	2.2	2.7	4.4	19.7	0.11	17.61	0.35	105	0.02	0.052
3198237	Soil	67.40	23.47	33.21	10.7	1415	2.1	0.7	37	2.58	63.0	2.5	4.7	5.1	23.8	0.15	20.43	0.38	122	0.02	0.050
3198238	Soil	25.76	21.73	61.87	15.8	1025	3.9	1.3	65	1.54	24.2	2.0	5.8	4.9	11.2	0.05	9.87	0.41	52	0.02	0.034
3198239	Soil	23.81	19.70	53.55	15.0	1011	3.6	1.2	54	1.21	29.7	1.8	7.6	4.8	9.6	0.07	9.13	0.36	49	0.02	0.026
3198240	Soil	19.55	18.87	47.22	13.5	777	3.0	1.0	44	1.15	22.0	1.5	6.3	4.9	8.4	0.08	8.63	0.28	39	0.02	0.023
3198241	Soil	39.67	15.72	49.81	8.6	1103	1.8	0.5	14	2.12	43.1	1.2	3.9	7.3	7.8	0.06	13.58	0.49	59	<0.01	0.032
3198242	Soil	49.62	25.67	89.11	8.4	991	2.6	0.3	23	1.40	41.6	2.2	4.5	13.7	45.0	0.09	9.29	0.51	56	<0.01	0.037
3198243	Soil	62.87	31.31	151.94	10.3	1351	3.8	0.5	38	1.83	54.2	1.7	4.2	9.3	36.9	0.12	8.19	0.63	59	<0.01	0.064





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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 5 of 10

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3198214	Soil	13.1	16.1	0.07	910.2	0.012	<20	0.72	0.005	0.12	0.6	0.8	1.58	0.20	74	11.4	0.28	3.6
3198215	Soil	9.2	9.8	0.05	519.7	0.015	<20	0.65	0.014	0.08	0.4	0.7	1.05	0.12	45	7.1	0.17	2.9
3198216	Soil	14.8	33.6	0.10	1859.9	0.017	<20	0.87	0.006	0.20	0.4	2.1	1.70	0.31	245	23.9	0.26	6.2
3198217	Soil	4.5	6.9	0.04	261.8	0.015	<20	0.50	0.023	0.06	0.3	0.5	0.46	0.05	65	6.3	0.17	2.1
3198218	Soil	14.9	21.2	0.05	1429.2	0.015	<20	0.52	0.009	0.15	0.9	2.2	1.69	0.21	166	24.5	0.44	5.0
3198219	Soil	3.6	3.7	0.03	362.1	0.018	<20	0.48	0.025	0.03	0.1	0.4	0.16	0.03	23	1.4	0.04	1.7
3198220	Rock Pulp	27.2	32.7	0.48	66.1	0.074	<20	0.81	0.087	0.12	<0.1	3.1	0.08	0.04	11	<0.1	<0.02	3.0
3198221	Soil	12.4	11.2	0.02	2570.7	0.005	<20	0.28	0.003	0.11	0.2	1.9	1.33	0.17	1051	13.8	0.32	5.5
3198222	Soil	5.3	3.5	0.02	107.5	0.010	<20	0.36	0.018	0.04	<0.1	0.4	0.15	0.03	35	1.0	0.07	1.5
3198223	Soil	19.9	14.3	0.03	467.7	0.013	<20	0.56	0.009	0.09	0.2	0.8	0.57	0.08	49	4.7	0.18	4.4
3198224	Soil	3.1	2.4	0.02	65.4	0.014	<20	0.40	0.027	0.03	<0.1	0.3	0.10	0.02	25	0.6	0.03	1.8
3198225	Soil	14.6	8.7	0.01	479.0	0.011	<20	0.35	0.005	0.08	0.3	0.6	0.66	0.13	55	5.0	0.12	3.6
3198226	Soil	28.1	58.1	0.03	1916.7	0.006	<20	0.83	0.003	0.06	0.2	9.2	0.28	0.03	307	56.1	0.60	8.3
3198227	Soil	15.4	46.7	0.04	1343.3	0.011	<20	0.52	0.008	0.08	0.6	4.6	0.34	0.13	719	41.5	0.39	5.8
3198228	Soil	16.9	43.7	0.03	2324.4	0.010	<20	0.52	0.003	0.11	0.7	3.2	0.36	0.17	347	59.0	0.52	6.0
3198229	Soil	10.3	67.8	0.03	1671.0	0.009	<20	0.49	0.002	0.09	1.1	6.0	0.36	0.13	659	96.8	0.88	8.4
3198230	Soil	14.8	47.2	0.02	2724.8	0.009	<20	0.40	0.002	0.14	0.7	3.7	0.50	0.17	2100	77.3	0.78	6.6
3198231	Soil	9.6	22.6	<0.01	909.9	0.015	<20	0.14	0.004	0.24	1.8	1.3	2.01	0.48	934	65.4	0.70	4.1
3198232	Soil	11.2	47.8	<0.01	171.2	0.023	<20	0.20	0.008	0.62	2.6	2.0	5.79	1.38	2794	>100	1.33	6.5
3198233	Soil	11.3	49.0	0.01	182.5	0.023	<20	0.22	0.008	0.66	3.0	2.3	6.54	1.43	3810	>100	1.49	6.5
3198234	Soil	11.2	23.5	<0.01	1748.2	0.018	<20	0.18	0.003	0.19	1.4	1.4	2.39	0.38	2589	48.8	0.93	3.9
3198235	Soil	11.9	24.9	<0.01	1988.9	0.020	<20	0.20	0.002	0.20	1.2	1.5	2.50	0.37	3284	52.3	0.83	4.0
3198236	Soil	8.3	11.5	0.03	450.7	0.017	<20	0.34	0.013	0.16	0.4	1.0	1.03	0.28	222	15.1	0.29	3.5
3198237	Soil	8.5	13.1	0.02	614.9	0.015	<20	0.28	0.009	0.18	0.5	1.0	1.19	0.33	219	17.5	0.41	3.5
3198238	Soil	12.4	8.9	0.06	219.5	0.013	<20	0.40	0.006	0.08	0.1	1.3	0.60	0.09	167	7.8	0.21	2.9
3198239	Soil	10.1	7.6	0.06	233.2	0.015	<20	0.33	0.008	0.06	<0.1	1.1	0.50	0.07	373	6.4	0.28	2.6
3198240	Soil	13.0	7.0	0.04	163.7	0.014	<20	0.26	0.005	0.05	<0.1	1.1	0.41	0.06	208	6.2	0.26	2.2
3198241	Soil	6.7	9.6	0.02	146.7	0.010	<20	0.28	0.004	0.08	<0.1	1.5	0.81	0.08	56	8.9	0.35	3.9
3198242	Soil	8.2	13.3	0.13	518.7	0.006	<20	0.39	0.006	0.13	<0.1	3.5	1.66	0.20	805	12.5	0.33	6.4
3198243	Soil	8.0	17.7	0.04	495.7	0.004	<20	0.38	0.003	0.17	<0.1	2.1	2.41	0.25	422	14.0	0.32	4.8



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Page:

6 of 10

Part:

1 of 2

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3198244	Soil	48.89	31.18	154.59	9.2	1704	2.7	0.5	36	1.15	43.0	1.9	3.7	12.2	27.7	0.10	8.70	0.63	43	0.02	0.056
3198245	Soil	24.17	86.77	760.43	38.5	3915	7.3	2.5	148	5.49	75.4	1.7	7.8	8.4	32.4	0.12	11.20	0.39	95	0.02	0.165
3198246	Soil	47.90	16.74	132.08	21.4	1463	2.4	0.3	9	3.05	56.5	1.8	1.8	5.3	29.4	0.24	12.55	0.45	79	<0.01	0.053
3198247	Soil	49.06	53.71	120.06	34.4	2745	12.4	1.6	78	5.03	71.4	5.3	2.4	1.7	38.8	0.28	18.21	0.34	166	0.01	0.134
3198248	Soil	36.89	64.42	97.00	56.3	1779	8.9	1.5	45	11.07	81.6	4.8	4.0	2.6	26.7	0.57	15.69	0.22	345	0.01	0.159
3199109	Soil	7.85	12.00	10.78	9.3	1431	1.9	0.8	38	0.64	6.8	1.8	1.0	0.2	9.7	0.03	3.15	0.07	39	0.08	0.045
3199110	Soil	27.69	17.07	19.18	17.8	2103	4.1	1.4	60	1.32	18.0	2.6	3.2	0.7	12.9	0.10	10.91	0.15	98	0.05	0.046
3199111	Soil	19.39	17.88	13.40	14.9	453	2.9	1.2	49	1.09	14.6	1.5	2.6	0.5	13.5	0.04	8.16	0.15	115	0.07	0.065
3199112	Soil	38.84	18.92	30.82	21.9	568	3.5	1.0	30	1.92	29.1	2.1	5.5	0.9	18.5	0.07	15.00	0.24	209	0.02	0.050
3199113	Soil	82.79	20.70	41.78	26.3	2238	3.8	0.9	57	3.18	123.8	7.8	5.7	0.6	81.9	0.17	17.33	0.50	323	0.01	0.149
3199114	Soil	74.90	18.11	38.08	23.9	1603	3.8	0.8	30	2.69	109.5	4.8	4.5	0.8	57.3	0.16	19.37	0.44	268	<0.01	0.120
3199115	Soil	12.76	10.62	55.78	31.8	1063	5.9	0.2	11	0.89	63.0	7.5	9.6	14.2	114.9	0.19	8.01	0.72	71	0.02	0.107
3199116	Soil	28.71	18.74	62.66	34.8	2303	5.5	0.2	10	1.53	101.5	12.9	6.8	17.2	146.7	0.21	12.73	0.78	128	0.02	0.151
3199117	Soil	20.07	11.36	60.53	12.8	1254	2.2	0.3	14	1.98	60.2	2.0	9.8	4.1	24.7	0.05	24.92	0.40	137	<0.01	0.060
3199118	Soil	14.39	18.77	32.27	22.0	1440	5.5	1.3	46	1.13	31.8	2.7	3.6	6.2	44.2	0.05	9.99	0.40	61	0.05	0.070
3199119	Soil	21.36	12.17	32.12	17.1	1611	4.4	0.9	36	1.23	37.3	2.5	4.6	6.5	41.8	0.08	14.57	0.37	72	0.03	0.061
3199120	Rock Pulp	12.17	158.50	281.77	204.7	107	81.2	48.7	281	1.62	9.5	0.5	41.6	3.4	35.5	0.54	0.20	0.16	25	0.56	0.056
3199121	Soil	27.75	13.17	67.54	25.8	2427	5.5	1.2	75	1.38	34.4	3.1	4.5	4.1	67.5	0.07	28.41	0.63	77	0.03	0.073
3199122	Soil	18.81	8.91	45.91	11.7	1420	2.5	0.3	14	0.83	19.6	2.0	4.8	5.8	37.2	0.03	22.72	0.37	60	0.01	0.037
3199123	Soil	27.24	13.64	80.78	5.5	1880	1.6	<0.1	5	1.25	22.8	2.3	4.3	7.6	47.8	0.02	30.23	0.68	61	<0.01	0.025
3199124	Soil	45.90	15.86	58.13	6.3	3162	1.6	0.2	5	2.98	15.8	1.9	1.9	5.7	23.6	0.07	33.42	0.70	109	<0.01	0.040
3199125	Soil	58.63	15.21	57.88	5.2	3640	1.8	0.2	4	4.11	30.9	1.9	1.7	4.9	17.3	0.08	28.49	0.83	142	<0.01	0.040
3199126	Soil	90.19	10.31	68.62	23.9	2766	4.6	0.4	14	2.28	93.5	3.6	6.3	10.8	52.8	0.16	46.40	0.58	124	0.01	0.083
3199127	Soil	53.08	12.79	63.72	25.8	5202	4.9	0.4	18	2.36	49.9	3.6	2.0	10.4	67.2	0.12	38.43	0.66	131	0.01	0.103
3199128	Soil	76.00	23.49	46.99	38.3	2757	5.3	0.4	20	3.18	59.8	18.3	3.7	11.3	157.1	0.19	45.19	0.58	176	0.05	0.197
3199129	Soil	131.71	27.81	49.65	101.7	2970	16.5	1.6	37	3.82	93.6	7.4	2.5	11.2	94.3	0.50	41.37	0.61	243	0.03	0.198
3199130	Soil	44.34	20.00	40.67	28.1	2405	5.2	0.7	39	2.57	51.4	4.6	4.4	4.8	51.7	0.08	33.47	0.48	170	0.01	0.116
3199131	Soil	48.91	19.90	44.75	26.7	2329	4.2	0.6	32	2.79	55.8	5.1	2.4	5.3	56.8	0.10	38.05	0.53	179	0.02	0.119
3199132	Soil	41.32	19.81	46.55	35.8	4130	6.3	0.7	19	1.87	33.4	4.2	2.7	1.8	50.5	0.10	29.77	0.43	135	0.02	0.097
3199133	Soil	12.19	140.78	9179.83	348.8	26541	10.4	2.4	157	5.25	306.7	1.7	20.4	7.6	44.4	0.27	62.66	0.40	56	0.03	0.151



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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 6 of 10

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3198244	Soil	14.1	11.6	0.03	482.4	0.007	<20	0.42	0.008	0.15	<0.1	3.3	2.12	0.20	456	12.8	0.39
3198245	Soil	10.5	32.9	0.06	267.3	0.015	<20	0.67	0.013	0.10	0.2	3.1	2.09	0.17	186	10.2	0.17
3198246	Soil	6.9	9.5	0.01	900.7	0.006	<20	0.17	0.005	0.16	0.1	1.0	1.81	0.32	803	10.4	0.12
3198247	Soil	9.4	21.8	0.05	945.3	0.013	<20	0.49	0.017	0.12	0.3	1.9	1.61	0.23	454	20.9	0.26
3198248	Soil	6.3	35.0	0.02	998.8	0.015	<20	0.38	0.013	0.07	0.3	1.5	1.19	0.27	226	13.3	0.18
3199109	Soil	4.9	5.2	0.04	222.9	0.017	<20	0.59	0.025	0.04	0.1	0.5	0.14	0.02	179	3.4	0.08
3199110	Soil	13.3	10.7	0.05	496.7	0.015	<20	0.45	0.014	0.04	0.3	0.6	0.24	0.04	388	12.9	0.20
3199111	Soil	11.5	8.3	0.04	340.4	0.018	<20	0.49	0.019	0.05	0.3	0.7	0.20	0.04	93	9.1	0.15
3199112	Soil	26.1	13.4	0.03	655.4	0.012	<20	0.37	0.003	0.07	0.4	0.7	0.34	0.06	156	20.1	0.19
3199113	Soil	25.7	25.9	0.03	2010.6	0.010	<20	0.53	0.003	0.22	0.9	1.0	1.56	0.30	255	28.6	0.35
3199114	Soil	28.4	19.8	0.02	1637.1	0.012	<20	0.35	0.002	0.15	0.8	0.9	1.09	0.21	161	23.9	0.40
3199115	Soil	29.0	16.9	0.02	1292.7	0.004	<20	0.67	<0.001	0.10	0.1	2.4	0.36	0.06	166	7.7	0.13
3199116	Soil	29.7	33.3	0.02	2339.7	0.005	<20	0.78	0.002	0.14	0.3	3.7	0.83	0.16	493	14.5	0.23
3199117	Soil	10.6	10.9	0.02	735.9	0.008	<20	0.25	0.001	0.10	0.1	0.9	0.31	0.11	81	19.1	0.29
3199118	Soil	16.2	12.2	0.03	495.6	0.015	<20	0.61	0.009	0.06	0.1	1.5	0.27	0.05	113	7.7	0.16
3199119	Soil	17.4	9.3	0.03	502.7	0.014	<20	0.48	0.011	0.07	0.2	1.3	0.30	0.05	96	10.0	0.11
3199120	Rock Pulp	27.6	31.4	0.47	63.6	0.076	<20	0.81	0.088	0.12	<0.1	3.1	0.09	0.04	15	<0.1	<0.02
3199121	Soil	21.1	13.0	0.04	822.8	0.013	<20	0.42	0.006	0.08	0.2	1.8	0.34	0.07	323	18.7	0.37
3199122	Soil	15.6	8.2	0.02	570.8	0.009	<20	0.24	0.004	0.06	0.2	1.4	0.22	0.04	309	14.7	0.29
3199123	Soil	15.5	8.1	0.02	3681.7	0.011	<20	0.25	0.001	0.13	<0.1	1.0	0.99	0.20	610	31.1	0.46
3199124	Soil	9.2	10.0	0.02	932.3	0.030	<20	0.23	0.003	0.36	0.3	1.2	1.70	0.74	683	>100	0.37
3199125	Soil	8.1	11.6	0.01	197.6	0.043	<20	0.25	0.006	0.58	0.3	1.5	2.61	1.30	756	>100	0.50
3199126	Soil	16.6	9.8	0.01	1068.8	0.020	<20	0.29	0.004	0.17	0.5	1.5	1.35	0.23	316	41.0	0.45
3199127	Soil	16.7	12.1	0.02	1683.2	0.022	<20	0.39	0.003	0.21	0.4	2.4	1.39	0.26	273	39.6	0.44
3199128	Soil	12.8	18.4	0.03	1535.2	0.016	<20	0.55	0.007	0.32	0.8	3.1	4.32	0.62	511	41.1	0.57
3199129	Soil	12.2	25.3	0.02	1446.0	0.013	<20	0.58	0.005	0.27	1.4	2.6	6.08	0.56	779	45.1	0.68
3199130	Soil	14.3	15.7	0.03	1735.4	0.043	<20	0.44	0.004	0.22	0.2	2.2	1.93	0.36	122	32.5	0.29
3199131	Soil	15.8	16.5	0.03	1848.4	0.049	<20	0.43	0.005	0.24	0.2	2.0	2.07	0.41	126	39.8	0.32
3199132	Soil	14.6	14.6	0.03	1796.1	0.027	<20	0.38	0.004	0.14	0.3	2.0	1.59	0.24	288	26.9	0.31
3199133	Soil	23.9	11.7	0.03	710.8	0.009	<20	0.51	0.006	0.11	<0.1	5.2	0.76	0.40	2440	9.0	0.18



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Page:

7 of 10

Part:

1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method	Analyte	Unit	MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199134	Soil	12.19	144.51	>10000	360.1	23605	10.0	2.3	129	5.41	309.2	1.7	28.1	7.6	45.8	0.44	65.87	0.42	53	0.03	0.153			
3199135	Soil	14.06	133.42	8465.20	328.8	19527	11.1	2.2	129	5.46	310.6	1.8	21.4	8.2	53.9	0.27	62.65	0.42	63	0.02	0.172			
3199136	Soil	13.93	134.20	8377.24	324.6	18954	11.2	2.2	134	5.54	329.9	1.8	22.1	8.3	55.2	0.33	64.14	0.42	65	0.02	0.174			
3199137	Soil	3.93	48.10	67.26	27.3	810	11.0	2.5	55	1.79	109.7	3.9	5.8	5.7	64.1	0.05	20.92	0.84	55	0.02	0.087			
3199138	Soil	3.83	39.84	130.40	32.5	989	9.8	2.2	65	2.25	153.1	4.6	14.3	3.3	77.6	0.07	26.43	0.47	57	0.05	0.130			
3199139	Soil	8.33	48.25	124.87	53.0	927	13.3	3.4	160	3.18	132.9	3.0	7.3	1.1	47.5	0.09	15.01	0.37	77	0.04	0.141			
3199140	Soil	26.62	374.05	213.38	23.3	4059	42.1	3.3	102	17.67	797.9	12.1	21.0	11.0	100.8	0.03	36.14	0.82	429	0.01	0.878			
3199141	Soil	28.91	365.90	214.16	23.6	4305	40.3	3.4	99	17.50	789.8	12.3	20.2	11.2	99.2	0.04	36.43	0.84	427	0.01	0.847			
3199142	Soil	20.27	258.81	249.05	40.3	3648	17.9	3.1	97	13.67	298.5	7.2	46.0	8.9	100.7	0.07	21.96	0.51	194	0.03	0.494			
3199143	Soil	23.80	248.47	362.60	52.0	4550	13.2	2.1	83	12.46	666.1	6.3	26.3	9.9	137.1	0.07	37.28	0.65	237	0.04	0.471			
3199144	Soil	15.42	55.84	1833.01	20.0	2868	3.8	1.0	42	2.64	209.6	5.7	22.1	9.2	88.0	0.07	19.28	0.49	91	0.02	0.168			
3199145	Soil	9.73	37.09	2361.50	23.9	3801	4.6	1.2	44	1.43	63.7	5.2	11.5	9.1	79.6	0.05	12.07	0.40	55	0.06	0.158			
3199146	Soil	7.70	42.58	1389.79	46.0	2323	10.7	3.9	176	2.25	57.7	5.4	15.6	3.7	61.3	0.12	8.20	0.27	64	0.09	0.161			
3199147	Soil	6.98	21.65	787.14	20.3	2659	5.4	1.5	54	1.47	80.8	4.1	35.7	7.2	31.3	0.05	17.72	0.29	40	0.03	0.068			
3199148	Soil	7.11	19.68	356.18	16.9	1937	4.1	0.7	26	1.30	115.4	3.1	13.8	3.5	30.2	0.03	10.70	0.36	38	0.01	0.061			
3199149	Soil	5.56	15.43	273.21	15.0	2408	4.0	1.3	51	1.06	57.3	1.8	9.0	8.1	14.1	0.02	8.51	0.22	29	0.02	0.043			
3199150	Soil	8.51	24.39	166.49	18.3	2046	3.8	0.8	35	1.94	127.8	1.8	18.8	8.9	21.9	0.03	10.90	0.30	39	0.01	0.060			
3199151	Soil	9.83	39.95	148.80	19.5	2092	4.1	0.8	36	2.43	125.7	1.7	11.2	9.2	35.0	0.06	14.50	0.34	57	0.01	0.095			
3199152	Soil	9.85	43.43	158.05	17.9	2010	5.1	0.7	46	2.49	114.5	1.9	12.1	10.2	34.1	0.09	12.79	0.37	61	<0.01	0.102			
3199153	Soil	7.92	38.69	1707.43	62.2	6121	4.4	1.0	61	2.08	89.4	1.4	13.4	8.9	22.7	0.08	15.41	0.36	43	<0.01	0.073			
3199154	Soil	11.23	245.50	>10000	1039.4	82061	3.7	1.0	45	6.83	196.5	1.4	6.2	7.4	21.0	0.89	124.04	0.42	51	<0.01	0.094			
3199155	Soil	14.72	138.47	6221.14	179.9	11984	18.6	3.9	139	5.48	681.4	2.8	29.4	9.9	111.4	0.27	45.10	0.57	82	0.03	0.275			
3199156	Soil	19.80	175.69	5512.52	155.7	12601	24.7	3.3	113	6.05	737.1	5.5	22.7	6.4	157.7	0.31	47.84	0.60	96	0.05	0.465			
3199157	Soil	19.52	250.92	8502.89	159.7	7515	26.7	3.4	113	7.10	1297.5	5.7	27.5	7.0	177.9	0.54	46.30	0.54	94	0.08	0.602			
3199158	Soil	15.06	160.05	>10000	358.0	29810	12.6	2.6	140	6.61	404.0	2.0	17.4	7.6	71.0	0.41	73.78	0.42	62	0.03	0.229			
3199159	Soil	13.64	161.81	8981.05	374.5	31670	17.2	3.7	160	6.82	450.9	2.1	17.8	7.5	62.2	0.44	65.12	0.40	64	0.03	0.253			
3199160	Rock Pulp	0.69	25.11	2.69	21.0	22	17.8	6.1	256	1.40	1.0	0.4	0.6	2.9	29.4	0.04	0.06	<0.02	21	0.60	0.060			
3199161	Soil	13.48	167.02	9909.92	370.6	31625	17.6	3.4	173	6.81	454.2	2.1	21.1	7.4	60.3	0.45	67.17	0.41	64	0.03	0.246			
3199162	Soil	12.95	155.86	>10000	444.4	36047	9.9	2.2	134	5.89	368.4	1.7	19.2	7.0	39.1	0.48	82.75	0.37	59	0.02	0.157			
3199163	Soil	12.60	156.31	>10000	368.2	33670	11.9	2.6	127	5.38	356.3	1.8	23.1	7.7	46.2	0.40	72.27	0.42	60	0.02	0.162			



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**Page:** 7 of 10

**Part:** 2 of 2

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	Method	Analyte	Unit	MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
					0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199134	Soil				23.1	11.3	0.02	1154.8	0.008	<20	0.46	0.007	0.11	<0.1	4.9	0.79	0.47	6207	9.0	0.18	2.5
3199135	Soil				25.5	13.2	0.03	1219.8	0.008	<20	0.48	0.004	0.12	0.1	5.3	0.90	0.43	3656	9.3	0.21	2.7
3199136	Soil				24.2	13.6	0.02	1064.1	0.008	<20	0.46	0.004	0.12	<0.1	5.2	0.87	0.43	3580	9.9	0.26	2.8
3199137	Soil				23.0	16.5	0.06	454.8	0.009	<20	0.48	0.002	0.06	<0.1	3.1	0.14	<0.02	64	2.5	0.10	1.9
3199138	Soil				20.0	21.5	0.11	828.2	0.014	<20	0.70	0.004	0.05	0.2	3.2	0.15	0.03	197	1.7	0.10	2.4
3199139	Soil				25.3	29.4	0.14	577.7	0.016	<20	0.91	0.005	0.08	0.2	2.0	0.28	0.08	106	3.5	0.13	4.5
3199140	Soil				16.0	106.2	0.04	615.3	0.006	<20	2.18	0.003	0.07	<0.1	15.2	0.87	0.86	174	28.2	0.40	3.7
3199141	Soil				16.4	106.7	0.04	641.8	0.006	<20	2.19	0.003	0.07	0.1	15.7	0.92	0.87	153	31.5	0.47	3.8
3199142	Soil				17.7	82.9	0.10	672.2	0.015	<20	1.40	0.006	0.07	0.1	10.2	0.65	0.49	166	20.2	0.29	5.4
3199143	Soil				24.0	61.5	0.07	1082.8	0.010	<20	0.92	0.004	0.13	0.1	7.5	0.95	0.54	237	21.2	0.36	4.2
3199144	Soil				39.9	29.2	0.04	813.6	0.007	<20	0.40	0.005	0.09	<0.1	6.8	0.39	0.13	172	11.9	0.21	3.0
3199145	Soil				42.8	25.4	0.06	697.2	0.009	<20	0.45	0.006	0.06	<0.1	4.9	0.23	0.05	104	8.6	0.18	2.4
3199146	Soil				35.8	29.5	0.13	552.5	0.018	<20	0.69	0.002	0.06	0.5	3.2	0.19	0.06	202	5.2	0.14	3.4
3199147	Soil				63.9	19.0	0.07	408.5	0.011	<20	0.45	0.002	0.08	0.1	2.4	0.20	0.08	135	4.6	0.16	3.4
3199148	Soil				54.6	15.2	0.02	459.1	0.006	<20	0.30	0.002	0.09	<0.1	1.5	0.22	0.12	78	3.5	0.10	3.1
3199149	Soil				44.6	12.1	0.05	191.0	0.011	<20	0.30	0.002	0.07	<0.1	1.7	0.14	0.07	43	3.0	0.08	2.6
3199150	Soil				40.0	11.2	0.04	264.7	0.006	<20	0.25	0.001	0.08	<0.1	4.6	0.20	0.08	71	7.2	0.14	2.5
3199151	Soil				41.5	12.3	0.03	330.0	0.005	<20	0.27	0.001	0.07	<0.1	6.8	0.35	0.09	67	9.2	0.16	1.8
3199152	Soil				45.4	14.9	0.03	351.4	0.004	<20	0.34	<0.001	0.09	<0.1	7.3	0.41	0.10	58	8.7	0.23	2.0
3199153	Soil				42.5	12.7	0.04	285.6	0.005	<20	0.36	0.005	0.09	<0.1	5.4	0.41	0.16	718	6.2	0.12	2.2
3199154	Soil				23.1	12.3	0.02	321.3	0.005	<20	0.29	0.002	0.11	<0.1	5.3	1.10	1.82	28435	8.3	0.15	2.3
3199155	Soil				31.4	18.6	0.04	798.3	0.008	<20	0.61	0.003	0.14	<0.1	8.3	1.05	0.32	285	10.3	0.22	2.6
3199156	Soil				30.0	30.3	0.07	838.8	0.010	<20	0.82	0.006	0.16	0.2	9.1	1.14	0.36	1032	11.6	0.29	3.1
3199157	Soil				22.9	30.6	0.04	880.4	0.010	<20	0.77	0.005	0.15	0.1	9.9	1.08	0.41	711	15.4	0.32	2.7
3199158	Soil				20.9	15.0	0.02	640.7	0.010	<20	0.37	0.006	0.17	<0.1	6.3	0.96	0.60	5494	11.6	0.23	2.5
3199159	Soil				22.2	15.4	0.02	644.8	0.008	<20	0.39	0.004	0.12	0.1	6.3	0.75	0.39	3472	9.9	0.22	2.2
3199160	Rock Pulp				16.3	28.5	0.44	57.5	0.074	<20	0.72	0.078	0.11	<0.1	2.7	0.06	<0.02	21	<0.1	<0.02	2.6
3199161	Soil				21.9	15.9	0.02	663.1	0.007	<20	0.39	0.004	0.11	0.1	5.9	0.78	0.43	4991	10.6	0.24	2.2
3199162	Soil				22.3	12.9	0.02	1200.6	0.006	<20	0.38	0.004	0.11	<0.1	5.3	0.75	0.47	8988	9.7	0.19	2.2
3199163	Soil				25.3	13.7	0.03	693.8	0.007	<20	0.46	0.004	0.12	0.1	5.6	0.86	0.49	6778	9.1	0.17	2.5



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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 8 of 10

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199164	Soil	13.27	158.79	>10000	435.1	42130	10.3	2.4	133	5.95	356.1	2.0	16.9	7.7	46.1	0.48	77.42	0.45	64	0.02	0.153
3199165	Soil	13.51	161.81	>10000	388.3	40133	10.1	2.3	131	5.32	320.6	2.0	12.5	8.7	43.6	0.51	79.04	0.51	63	0.01	0.141
3199166	Soil	14.44	153.87	>10000	348.7	38328	8.5	1.6	117	4.87	281.6	2.1	13.0	8.7	37.1	0.51	71.98	0.47	63	0.01	0.142
3199167	Soil	13.68	145.82	>10000	341.8	39237	8.6	1.8	123	4.91	280.0	1.9	10.0	8.1	38.1	0.51	76.80	0.45	59	0.01	0.138
3199168	Soil	12.84	138.80	8329.94	325.8	26480	12.2	2.6	149	5.03	305.2	1.9	15.8	8.1	45.8	0.39	51.15	0.45	60	0.02	0.161
3199169	Soil	21.38	115.09	140.54	11.6	2315	11.5	0.5	32	3.27	46.5	5.1	1.0	9.2	115.4	0.02	6.60	0.57	145	0.01	0.159
3199170	Soil	31.65	121.27	153.79	10.3	2805	9.9	0.6	35	3.51	57.7	5.1	1.4	11.0	126.4	0.03	8.26	0.60	158	0.01	0.169
3199171	Soil	39.92	27.43	97.23	0.7	854	1.4	<0.1	1	1.37	9.5	1.6	0.3	7.6	11.8	<0.01	7.28	0.60	33	<0.01	0.017
3199172	Soil	21.97	30.70	72.23	3.1	1549	1.4	0.3	30	0.66	11.0	2.7	2.2	4.4	23.6	0.02	4.83	0.26	33	<0.01	0.022
3199173	Soil	116.74	18.56	151.77	1.1	871	1.1	<0.1	2	5.30	40.8	2.0	0.8	4.9	37.0	<0.01	9.22	0.80	90	<0.01	0.032
3199174	Soil	63.68	20.69	150.70	2.3	1375	2.3	0.2	3	2.48	27.6	3.5	1.2	10.6	99.5	<0.01	7.87	0.63	48	<0.01	0.043
3199175	Soil	95.23	17.85	87.19	3.1	941	1.5	0.2	7	3.02	35.8	3.8	1.1	7.7	22.3	0.02	12.88	0.57	58	<0.01	0.045
3199176	Soil	48.79	31.67	92.77	4.6	1251	2.3	0.4	15	2.21	32.2	3.9	1.0	6.8	37.6	<0.01	8.88	0.53	70	<0.01	0.057
3199177	Soil	24.09	11.67	103.49	6.1	1242	1.5	0.5	25	1.01	16.9	1.0	2.7	5.5	8.6	<0.01	8.02	0.36	23	0.01	0.020
3199178	Soil	19.35	8.55	83.56	5.3	927	1.6	0.5	17	0.82	13.4	0.7	2.4	5.6	7.6	<0.01	7.29	0.30	19	0.01	0.019
3199179	Soil	31.65	16.62	34.99	3.8	630	1.2	0.2	7	0.86	29.9	1.4	1.1	4.9	6.7	0.02	9.86	0.28	30	<0.01	0.011
3199180	Soil	28.57	16.13	35.55	3.3	843	1.0	0.2	9	0.74	20.9	1.6	0.2	4.4	5.3	<0.01	9.88	0.29	26	<0.01	0.014
3199181	Soil	207.29	28.16	129.74	2.8	1791	1.1	<0.1	2	7.05	97.4	1.3	0.6	7.0	11.1	0.01	37.00	1.34	101	<0.01	0.022
3199182	Soil	106.76	20.98	141.40	3.6	1788	1.6	0.2	4	4.75	98.2	1.9	0.9	10.9	8.5	<0.01	22.93	1.40	84	<0.01	0.038
3199183	Soil	63.46	14.27	105.51	2.2	1336	0.9	<0.1	3	2.72	48.5	1.1	0.8	6.9	12.3	<0.01	15.48	0.70	53	<0.01	0.029
3199184	Soil	131.46	34.32	160.03	10.4	2256	2.1	0.6	16	4.39	95.1	5.4	0.9	19.9	108.3	<0.01	14.53	0.85	94	0.02	0.096
3199185	Soil	114.24	31.12	495.56	47.8	3024	10.1	1.9	162	4.71	93.5	4.7	0.6	12.8	75.3	0.02	14.79	0.63	101	0.01	0.102
3199186	Soil	37.51	17.00	370.63	8.4	2070	2.9	0.2	7	1.48	18.7	2.7	0.7	6.7	30.5	<0.01	9.51	0.39	51	<0.01	0.048
3199187	Soil	30.69	22.00	178.36	12.4	1233	4.2	0.6	27	1.66	30.6	2.5	0.8	6.7	28.1	0.03	8.09	0.37	47	<0.01	0.060
3199188	Soil	34.04	27.45	174.38	20.8	1398	5.2	1.5	77	2.06	49.1	2.4	0.7	6.2	35.4	0.05	8.99	0.41	55	<0.01	0.073
3199189	Soil	27.74	23.58	162.44	16.5	1256	4.7	1.3	63	1.65	37.0	2.3	1.5	3.6	24.9	0.07	7.61	0.37	46	<0.01	0.061
3199190	Soil	1.37	8.43	13.45	3.2	344	1.1	0.7	34	0.41	4.9	0.4	0.8	0.2	7.7	0.03	0.43	0.04	7	0.07	0.039
3199191	Soil	14.96	9.68	34.35	4.4	1036	1.0	0.3	7	0.67	18.6	1.0	3.1	0.2	10.2	0.02	4.19	0.15	23	<0.01	0.031
3199192	Soil	27.19	12.09	56.11	4.0	1281	1.6	0.2	6	0.98	30.2	1.7	3.4	0.7	15.8	<0.01	6.87	0.26	40	<0.01	0.031
3199193	Soil	25.08	11.14	75.10	4.4	966	1.6	0.2	17	1.13	35.8	1.4	3.7	0.9	13.6	0.01	7.77	0.30	41	<0.01	0.028



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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 8 of 10

**Part:** 2 of 2

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WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3199164	Soil	23.0	13.5	0.03	719.6	0.007	<20	0.41	0.004	0.11	<0.1	5.7	0.86	0.46	5225	9.7	0.28
3199165	Soil	26.6	14.4	0.03	1354.1	0.006	<20	0.43	0.005	0.12	<0.1	5.6	1.00	0.58	12041	9.9	0.18
3199166	Soil	27.6	14.1	0.02	1115.1	0.005	<20	0.42	0.004	0.13	<0.1	5.4	0.99	0.58	12168	8.7	0.16
3199167	Soil	25.8	13.9	0.02	1320.7	0.006	<20	0.38	0.005	0.11	<0.1	5.2	0.85	0.52	11501	9.6	0.17
3199168	Soil	25.3	13.1	0.04	584.4	0.009	<20	0.51	0.005	0.11	<0.1	5.4	0.87	0.39	2756	8.4	0.18
3199169	Soil	23.6	42.2	0.07	411.6	0.002	<20	0.53	0.030	0.21	<0.1	6.5	1.43	0.54	286	10.0	0.28
3199170	Soil	19.9	41.3	0.06	446.4	0.002	<20	0.54	0.034	0.25	<0.1	5.5	1.77	0.67	452	11.4	0.31
3199171	Soil	31.6	5.0	<0.01	131.5	0.001	<20	0.12	0.007	0.06	<0.1	0.8	0.67	0.06	1395	19.2	0.35
3199172	Soil	25.3	10.3	0.01	211.6	0.003	<20	0.18	0.014	0.08	<0.1	1.6	0.71	0.16	350	5.4	0.16
3199173	Soil	10.6	12.2	<0.01	1066.0	0.003	<20	0.07	0.025	0.18	<0.1	1.1	1.87	0.47	1506	15.7	0.25
3199174	Soil	14.6	13.8	<0.01	750.0	0.002	<20	0.13	0.046	0.29	<0.1	1.5	4.47	0.74	1710	15.6	0.24
3199175	Soil	24.3	11.3	<0.01	277.7	0.003	<20	0.13	0.009	0.07	<0.1	1.4	1.15	0.11	1616	17.1	0.29
3199176	Soil	23.8	16.1	0.02	473.0	0.003	<20	0.30	0.014	0.11	<0.1	2.1	1.65	0.21	1178	10.1	0.26
3199177	Soil	33.5	4.8	0.02	79.4	0.005	<20	0.26	0.009	0.07	<0.1	0.8	0.73	0.07	554	9.3	0.17
3199178	Soil	32.0	3.8	0.01	85.4	0.005	<20	0.17	0.007	0.06	<0.1	0.7	0.49	0.06	417	7.1	0.15
3199179	Soil	28.8	5.1	<0.01	175.8	0.003	<20	0.10	0.003	0.04	<0.1	0.9	0.39	0.04	896	9.6	0.19
3199180	Soil	27.1	4.6	<0.01	165.0	0.004	<20	0.13	0.005	0.04	<0.1	0.8	0.43	0.04	898	8.4	0.15
3199181	Soil	21.3	10.5	<0.01	707.1	0.008	<20	0.09	0.002	0.03	0.3	1.2	0.50	0.08	1784	51.3	0.59
3199182	Soil	38.7	13.1	<0.01	380.0	0.006	<20	0.17	0.005	0.05	0.2	1.4	0.94	0.04	1430	33.4	0.38
3199183	Soil	18.6	7.9	<0.01	273.5	0.004	<20	0.12	0.006	0.09	<0.1	1.0	0.75	0.13	1372	21.1	0.28
3199184	Soil	18.1	19.5	0.05	599.0	0.009	<20	0.29	0.030	0.43	<0.1	3.6	4.51	0.95	1706	43.5	0.87
3199185	Soil	29.3	19.0	0.02	640.2	0.007	<20	0.20	0.008	0.19	<0.1	4.6	2.16	0.37	1485	40.7	0.47
3199186	Soil	29.7	9.2	<0.01	329.3	0.002	<20	0.18	0.003	0.11	<0.1	1.5	2.08	0.19	1604	15.0	0.21
3199187	Soil	26.8	9.6	<0.01	298.4	0.002	<20	0.23	0.004	0.12	<0.1	2.0	1.11	0.20	1059	10.1	0.17
3199188	Soil	30.0	10.5	0.01	387.3	0.003	<20	0.26	0.005	0.14	<0.1	2.3	1.32	0.24	599	13.0	0.22
3199189	Soil	30.0	9.8	0.01	311.1	0.002	<20	0.25	0.004	0.11	<0.1	1.7	1.09	0.18	539	10.5	0.18
3199190	Soil	2.5	2.8	0.02	45.1	0.015	<20	0.51	0.025	0.02	<0.1	0.6	0.09	<0.02	61	0.7	<0.02
3199191	Soil	12.7	4.1	<0.01	102.3	0.005	<20	0.41	0.012	0.03	<0.1	0.3	0.35	0.05	216	4.2	0.07
3199192	Soil	26.7	7.2	<0.01	159.6	0.003	<20	0.25	0.004	0.05	<0.1	0.4	0.54	0.06	333	5.3	0.16
3199193	Soil	19.5	7.4	<0.01	136.0	0.003	<20	0.18	0.005	0.06	<0.1	0.4	0.46	0.09	201	6.9	0.18



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Report Date:

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Page:

9 of 10

Part:

1 of 2

# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199194	Soil	32.31	20.39	116.79	12.6	1405	2.4	1.0	56	1.89	47.7	2.7	5.4	0.5	19.0	0.04	8.02	0.35	54	<0.01	0.054
3199195	Soil	7.84	6.79	18.90	29.6	189	5.6	1.0	27	1.37	18.1	0.5	1.1	0.3	11.8	<0.01	1.55	0.21	22	<0.01	0.041
3199196	Soil	20.98	32.48	69.55	40.3	1865	7.7	1.4	60	3.85	42.5	4.8	3.4	1.4	229.0	0.10	8.05	0.57	42	0.05	0.552
3199197	Soil	23.56	53.02	28.05	70.5	982	23.2	3.3	119	4.88	70.6	6.7	3.0	4.6	33.6	0.16	7.68	0.36	51	0.06	0.341
3199198	Soil	1.41	12.67	3.85	8.1	146	2.6	0.7	19	0.38	2.8	0.8	0.8	<0.1	9.2	0.05	0.44	0.04	6	0.07	0.057
3199199	Soil	6.07	29.23	8.18	50.3	369	13.0	2.0	103	1.45	14.4	4.9	1.5	0.8	26.3	0.03	1.88	0.10	16	0.07	0.193
3199200	Rock Pulp	12.15	155.96	274.75	202.0	112	79.4	48.0	269	1.55	9.3	0.5	36.1	3.2	33.0	0.48	0.16	0.16	23	0.54	0.055
3199201	Soil	16.42	15.90	34.13	49.4	462	11.1	2.1	41	2.76	26.7	1.3	2.6	4.5	30.6	0.04	1.98	0.32	27	<0.01	0.062
3199202	Soil	44.85	45.93	31.04	41.2	1383	8.7	1.4	39	6.49	48.3	2.0	2.3	5.6	21.7	0.02	9.91	0.42	30	<0.01	0.146
3199203	Soil	46.38	72.81	21.72	85.6	1533	36.1	3.1	106	8.34	65.4	7.4	2.5	6.6	44.8	0.21	21.40	0.32	56	0.03	0.365
3199204	Soil	50.53	74.08	19.63	35.2	1494	20.7	0.9	33	8.88	42.0	8.4	0.9	7.1	20.1	0.14	18.38	0.24	79	0.02	0.381
3199205	Soil	0.23	5.95	1.51	4.0	46	0.8	0.7	23	0.22	0.5	0.2	1.2	<0.1	7.4	0.07	0.17	0.04	4	0.08	0.036
3199206	Soil	12.02	29.79	12.34	23.3	793	9.1	0.9	25	1.83	16.4	2.7	1.6	0.7	24.9	0.04	5.49	0.20	12	0.03	0.108
3199207	Soil	15.90	27.05	17.04	29.3	1061	11.5	1.0	27	2.16	19.5	3.0	2.7	0.4	27.4	0.09	5.47	0.24	16	0.02	0.134
3199208	Soil	20.53	30.66	22.47	36.0	1341	11.1	1.5	66	2.82	34.0	3.7	3.6	0.8	33.7	0.07	8.33	0.29	52	0.01	0.180
3199209	Soil	76.00	21.97	33.47	17.8	2902	3.4	0.6	33	13.61	270.0	9.1	6.7	1.1	27.3	0.10	29.60	0.29	883	0.02	1.503
3199210	Soil	12.11	19.08	10.14	22.0	1051	7.3	1.2	79	1.18	18.1	2.0	0.9	1.7	22.3	0.07	7.11	0.11	46	0.09	0.097
3199211	Soil	64.44	82.70	28.00	115.1	1661	50.6	2.9	162	6.60	126.1	21.1	2.0	8.3	135.4	0.78	31.16	0.33	232	0.06	0.639
3199212	Soil	79.13	50.35	31.72	56.9	2536	27.1	1.6	37	5.06	114.8	18.2	1.1	7.5	105.4	0.27	30.30	0.34	247	0.04	0.567
3199213	Soil	31.68	33.32	33.57	66.7	945	18.6	2.9	118	3.48	50.5	5.5	1.6	0.7	77.3	0.13	12.27	0.29	114	0.05	0.155
3199214	Soil	29.96	33.41	29.00	54.3	713	15.9	2.6	107	3.06	45.6	4.4	1.1	0.3	67.1	0.14	11.13	0.28	103	0.06	0.164
3199215	Soil	142.43	29.23	131.22	8.8	2836	3.8	0.2	7	2.66	77.0	12.4	<0.2	18.8	99.5	0.02	35.83	0.86	216	0.02	0.112
3199216	Soil	168.72	24.19	191.11	8.8	3189	4.0	0.2	8	2.82	64.1	9.2	<0.2	20.4	145.5	<0.01	48.36	0.99	246	0.03	0.105
3199217	Soil	95.57	32.83	133.63	24.8	2512	5.2	0.4	22	2.74	69.9	9.7	0.8	9.0	254.3	0.06	30.25	0.57	196	0.04	0.192
3199218	Soil	80.35	86.31	123.52	260.2	3927	54.7	11.4	890	5.24	148.4	10.2	0.9	1.9	126.5	7.11	24.24	0.51	227	0.14	0.320
3199219	Soil	4.30	9.08	12.90	4.0	238	1.4	0.7	14	0.40	4.8	0.5	1.5	<0.1	10.9	<0.01	1.62	0.07	18	0.06	0.033
3199220	Soil	3.69	6.35	9.03	3.2	198	1.3	0.5	12	0.34	4.5	0.5	1.2	<0.1	11.0	0.02	1.44	0.05	15	0.07	0.035
3199221	Soil	17.56	14.46	67.66	14.4	516	4.1	0.7	30	0.83	22.1	1.3	1.2	0.2	23.5	0.07	4.41	0.13	54	0.03	0.047
3199222	Soil	40.23	26.20	939.62	22.0	3621	3.2	0.7	23	2.60	51.3	4.0	2.9	0.9	39.8	0.04	18.06	0.33	81	0.03	0.094
3199223	Soil	5.11	14.24	16.18	19.4	246	4.1	1.2	80	1.04	13.4	0.6	0.7	2.1	20.2	<0.01	1.59	0.14	13	0.06	0.054





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**Project:** MacMillan Pass

**Report Date:** July 06, 2018

**Page:** 9 of 10

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199194	Soil	18.0	10.8	0.01	361.3	0.003	<20	0.27	0.006	0.07	<0.1	0.6	0.83	0.11	278	7.2	0.13	2.2
3199195	Soil	8.2	5.2	0.01	295.8	0.004	<20	0.24	0.003	0.06	<0.1	0.5	0.23	0.06	45	1.9	0.09	1.5
3199196	Soil	18.6	16.3	0.05	1404.3	0.008	<20	0.77	0.004	0.19	0.3	1.8	1.06	0.26	410	13.7	0.17	3.0
3199197	Soil	9.8	31.6	0.19	1580.4	0.025	<20	1.86	0.012	0.18	0.2	6.3	1.17	0.32	158	10.2	0.19	6.0
3199198	Soil	1.8	2.4	0.02	654.4	0.011	<20	0.59	0.024	0.03	0.2	0.5	0.08	0.04	43	0.4	0.03	1.1
3199199	Soil	3.7	8.8	0.05	1957.6	0.009	<20	1.10	0.024	0.06	<0.1	1.7	0.36	0.10	77	2.0	0.07	1.5
3199200	Rock Pulp	25.8	30.9	0.45	60.3	0.072	<20	0.77	0.083	0.12	0.1	3.0	0.08	0.04	31	<0.1	<0.02	2.6
3199201	Soil	7.7	10.7	0.02	2209.3	0.005	<20	0.63	0.002	0.14	<0.1	1.4	0.69	0.22	142	4.3	0.11	2.9
3199202	Soil	6.6	16.4	0.05	1847.5	0.008	<20	0.75	0.005	0.15	0.2	1.7	1.02	0.26	269	13.4	0.19	4.0
3199203	Soil	7.1	21.2	0.06	471.0	0.009	<20	2.12	0.010	0.14	0.3	4.1	1.65	0.39	235	24.6	0.16	3.7
3199204	Soil	3.5	20.9	0.09	451.2	0.004	<20	1.65	0.006	0.10	0.3	5.2	1.58	0.42	428	28.4	0.18	3.5
3199205	Soil	1.6	1.1	0.01	143.7	0.012	<20	0.49	0.028	0.02	<0.1	0.3	0.04	0.02	25	0.5	<0.02	1.4
3199206	Soil	4.8	6.4	0.02	2850.7	0.007	<20	0.82	0.011	0.07	0.2	1.3	0.61	0.18	251	4.5	0.09	2.1
3199207	Soil	5.5	8.6	0.02	2500.7	0.005	<20	0.74	0.007	0.07	0.1	0.9	0.56	0.18	265	5.0	0.08	2.5
3199208	Soil	6.0	10.7	0.02	2334.3	0.003	<20	0.70	0.004	0.08	0.2	1.1	0.93	0.21	427	9.6	0.15	2.4
3199209	Soil	4.8	33.5	0.02	2202.8	0.009	<20	0.45	0.001	0.08	0.2	1.4	1.24	0.23	720	32.7	0.19	1.6
3199210	Soil	4.7	9.2	0.06	927.0	0.014	<20	0.55	0.021	0.06	0.2	1.1	0.55	0.08	69	5.7	0.07	1.9
3199211	Soil	11.2	61.4	0.08	1847.5	0.010	<20	2.12	0.006	0.20	0.6	6.1	2.60	0.34	136	31.5	0.47	6.5
3199212	Soil	11.4	61.1	0.06	497.3	0.011	<20	2.14	0.004	0.20	0.7	6.1	2.36	0.38	259	43.0	0.48	6.3
3199213	Soil	11.6	27.4	0.15	1056.3	0.015	<20	0.96	0.009	0.13	0.2	1.5	0.96	0.22	133	14.4	0.16	5.5
3199214	Soil	10.6	26.2	0.11	1759.6	0.012	<20	1.00	0.009	0.10	0.3	1.0	0.90	0.18	113	15.5	0.16	4.5
3199215	Soil	13.4	23.7	0.02	1550.7	0.022	<20	0.30	0.004	0.22	1.2	7.5	1.74	0.38	1200	71.2	0.73	10.7
3199216	Soil	16.7	20.4	0.02	1566.3	0.036	<20	0.34	0.003	0.23	1.3	6.6	2.02	0.40	1514	86.0	0.96	9.4
3199217	Soil	15.6	24.3	0.03	2026.3	0.014	<20	0.47	0.006	0.18	0.9	4.3	1.71	0.32	1647	41.1	0.67	6.0
3199218	Soil	9.9	54.6	0.10	1431.8	0.012	<20	1.16	0.007	0.21	0.9	4.7	2.62	0.36	649	35.8	0.53	6.8
3199219	Soil	1.6	3.3	0.02	162.2	0.013	<20	0.39	0.022	0.03	<0.1	0.3	0.15	0.03	127	2.4	0.05	1.4
3199220	Soil	1.5	3.4	0.02	153.7	0.011	<20	0.41	0.028	0.03	<0.1	0.3	0.13	0.02	98	2.0	0.02	1.4
3199221	Soil	9.2	8.1	0.02	466.4	0.008	<20	0.38	0.018	0.05	0.2	0.5	0.45	0.05	155	4.1	0.12	2.2
3199222	Soil	6.0	12.7	0.02	837.0	0.008	<20	0.27	0.016	0.08	0.2	1.1	1.07	0.18	694	10.5	0.14	3.7
3199223	Soil	3.4	5.7	0.03	474.2	0.011	<20	0.30	0.022	0.07	<0.1	1.2	0.24	0.06	26	1.3	0.05	1.4



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Page:

10 of 10

Part:

1 of 2

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WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199224	Soil	11.57	51.84	40.92	200.8	398	36.6	4.9	125	8.28	93.1	5.6	1.3	7.0	144.4	0.16	2.63	0.34	62	0.02	0.283
3199225	Soil	3.87	22.14	11.81	50.7	79	7.6	1.7	41	2.01	22.7	0.7	0.5	0.3	19.3	0.05	1.36	0.16	23	0.03	0.089
3199226	Soil	9.05	38.50	26.33	116.8	154	16.5	3.6	76	4.35	48.9	1.9	1.0	3.9	44.0	0.06	2.33	0.31	38	0.01	0.147
3199227	Soil	4.96	19.69	12.64	38.0	145	6.9	1.4	59	1.94	24.0	0.9	0.4	0.1	14.5	0.04	2.35	0.15	27	0.02	0.098
3199228	Soil	3.25	25.26	10.33	66.8	60	10.9	2.8	49	1.94	23.9	1.0	0.8	0.6	64.5	0.05	1.20	0.13	20	0.05	0.091
3199229	Soil	8.04	30.74	26.40	83.7	144	18.3	3.5	58	2.53	42.9	1.7	2.2	6.2	95.4	0.06	1.98	0.27	23	0.02	0.103
3199230	Soil	16.10	27.46	30.55	89.5	397	22.3	4.1	89	2.78	32.8	1.6	2.2	4.3	34.7	0.05	2.02	0.22	23	0.06	0.106
3199231	Soil	8.12	29.71	18.84	59.6	717	19.4	3.4	32	2.49	16.5	1.6	0.8	3.5	19.1	0.03	2.75	0.31	8	<0.01	0.062
3199232	Soil	8.78	17.14	11.71	41.2	235	13.4	2.3	71	1.69	15.9	1.1	1.6	1.3	15.8	<0.01	1.50	0.12	13	0.06	0.086
3199233	Soil	26.50	35.92	36.87	112.4	404	37.5	5.6	141	4.68	47.0	2.7	3.1	5.9	38.0	0.07	3.47	0.34	29	0.02	0.169
3199234	Soil	4.43	15.73	11.54	18.8	242	4.9	1.1	34	0.98	8.3	0.8	0.8	0.1	15.6	0.01	0.90	0.11	10	0.04	0.061
3199235	Soil	11.76	30.34	17.60	86.1	360	19.1	3.4	51	2.67	30.5	2.1	2.1	2.2	28.2	0.03	2.86	0.24	21	<0.01	0.095
3199236	Soil	0.66	4.13	2.70	4.5	48	1.0	0.5	14	0.34	1.3	0.3	<0.2	<0.1	7.2	<0.01	0.25	0.08	7	0.04	0.044
3199237	Soil	5.53	16.51	18.14	37.9	183	7.8	1.9	101	1.91	16.3	1.2	<0.2	<0.1	26.4	0.12	1.94	0.25	34	0.04	0.172
3199238	Soil	8.48	15.93	18.17	47.0	185	10.4	2.6	103	2.32	22.5	1.0	<0.2	0.2	20.3	0.09	3.83	0.24	49	0.04	0.081
3199239	Soil	8.26	15.92	17.70	43.0	150	8.1	2.0	55	1.76	19.3	0.9	<0.2	<0.1	18.7	0.06	2.90	0.25	47	0.04	0.077
3199240	Rock Pulp	0.63	22.78	1.99	19.6	25	17.9	6.0	271	1.46	0.4	0.4	<0.2	2.9	29.1	0.03	0.05	0.03	23	0.63	0.051
3199241	Soil	3.49	8.55	8.72	12.4	199	2.3	0.5	14	0.65	5.2	0.7	<0.2	<0.1	11.2	0.02	1.47	0.11	20	0.03	0.050
3199242	Soil	23.91	26.77	40.38	65.0	1427	11.1	2.0	63	3.57	61.6	3.6	0.8	0.6	48.1	0.09	10.19	0.29	118	0.03	0.197
3199243	Soil	26.19	28.23	40.41	82.1	1512	12.6	2.4	71	3.37	47.8	3.8	0.6	1.6	52.7	0.09	13.52	0.29	99	0.03	0.174
3199244	Soil	34.60	29.67	42.63	66.6	1572	10.6	2.2	55	3.67	56.7	5.2	0.9	2.1	75.4	0.07	13.63	0.29	142	0.04	0.199
3199245	Soil	22.96	25.86	35.11	82.6	1516	15.0	2.2	56	3.63	42.9	5.8	<0.2	4.6	86.9	0.14	13.21	0.24	100	0.03	0.214
3199246	Soil	19.07	23.09	26.28	50.4	2491	7.7	1.5	94	2.30	28.1	2.8	1.1	1.4	32.2	0.15	18.72	0.17	61	0.06	0.137
3199247	Soil	35.75	36.65	51.24	98.2	2159	19.1	2.2	139	3.53	60.1	7.2	1.2	1.2	101.2	0.22	18.76	0.28	170	0.05	0.209
3199248	Soil	41.12	42.97	65.61	149.5	2739	9.6	1.2	76	3.72	83.8	10.9	2.6	3.8	96.7	0.19	26.35	0.31	182	0.06	0.243
3199249	Soil	90.76	64.26	85.56	24.5	2856	4.2	0.3	20	3.04	47.5	6.4	1.1	6.7	141.4	<0.01	27.02	0.28	175	0.02	0.195
3199250	Soil	27.78	18.45	116.91	12.2	908	1.7	0.3	22	0.48	12.2	15.0	0.6	15.8	180.3	0.01	17.53	0.22	128	0.03	0.112
3199251	Soil	77.65	20.43	215.55	12.0	4327	3.7	0.6	28	1.45	41.3	6.6	<0.2	5.9	46.3	0.03	29.43	0.53	150	0.02	0.060
3199252	Soil	172.21	25.12	319.97	31.5	6289	9.7	1.0	34	2.82	89.0	5.7	<0.2	9.3	108.8	0.04	47.60	0.64	215	0.02	0.113
3199253	Soil	92.15	32.33	159.01	21.6	3142	7.0	0.9	62	2.65	71.9	7.6	<0.2	4.8	127.6	0.03	29.52	0.38	135	0.04	0.162



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**Page:** 10 of 10

**Part:** 2 of 2

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199224	Soil	7.1	23.5	0.19	377.1	0.005	<20	1.19	0.002	0.11	<0.1	2.8	0.43	0.11	106	4.6	0.10	5.5
3199225	Soil	4.4	8.6	0.06	141.3	0.007	<20	0.78	0.014	0.06	<0.1	0.4	0.16	0.06	33	2.6	0.04	2.4
3199226	Soil	6.8	17.9	0.17	332.8	0.003	<20	0.98	0.003	0.11	<0.1	1.3	0.38	0.10	51	4.8	0.09	2.5
3199227	Soil	5.1	10.4	0.08	177.7	0.005	<20	0.63	0.015	0.07	<0.1	0.5	0.21	0.06	43	3.4	0.06	2.2
3199228	Soil	4.5	7.2	0.05	125.1	0.007	<20	0.65	0.016	0.05	<0.1	0.8	0.17	0.05	46	1.7	0.03	1.5
3199229	Soil	8.3	6.9	0.05	281.5	0.002	<20	0.49	0.002	0.09	<0.1	1.5	0.37	0.09	114	3.4	0.07	1.0
3199230	Soil	5.4	8.1	0.07	3032.3	0.014	<20	0.71	0.015	0.09	<0.1	1.5	0.62	0.16	231	4.2	0.10	2.3
3199231	Soil	2.5	4.5	0.02	376.3	0.002	<20	0.49	0.012	0.19	<0.1	0.9	0.78	0.39	390	3.0	0.17	1.4
3199232	Soil	3.9	5.1	0.04	783.2	0.011	<20	0.57	0.018	0.06	<0.1	0.9	0.36	0.08	45	2.1	0.07	1.6
3199233	Soil	6.8	13.1	0.08	2051.5	0.008	<20	0.90	0.006	0.13	<0.1	2.3	1.08	0.25	112	5.6	0.15	2.9
3199234	Soil	2.9	3.8	0.03	669.4	0.009	<20	0.86	0.021	0.05	<0.1	0.5	0.28	0.06	84	1.7	0.05	2.2
3199235	Soil	5.3	8.0	0.03	2229.1	0.004	<20	0.63	0.005	0.09	<0.1	1.5	0.66	0.20	280	4.0	0.11	2.3
3199236	Soil	1.5	1.7	0.02	44.5	0.006	<20	0.41	0.025	0.03	<0.1	0.1	0.05	0.03	22	0.6	<0.02	1.8
3199237	Soil	7.0	10.7	0.07	299.5	0.002	<20	0.86	0.011	0.07	0.1	0.2	0.35	0.10	32	2.8	0.07	3.4
3199238	Soil	10.3	15.9	0.10	385.3	0.015	<20	0.79	0.009	0.07	0.1	0.7	0.36	0.06	34	4.7	0.09	3.8
3199239	Soil	10.4	10.9	0.05	309.0	0.010	<20	0.79	0.010	0.06	0.1	0.5	0.28	0.06	40	4.0	0.06	4.2
3199240	Rock Pulp	16.1	27.2	0.46	51.3	0.072	<20	0.76	0.078	0.12	<0.1	2.8	0.06	<0.02	11	<0.1	<0.02	2.7
3199241	Soil	3.5	4.7	0.03	173.5	0.008	<20	0.60	0.022	0.04	<0.1	0.3	0.12	0.05	34	1.7	<0.02	2.4
3199242	Soil	11.0	18.1	0.07	1099.5	0.007	<20	0.68	0.006	0.16	0.2	1.2	0.93	0.18	199	18.3	0.20	3.1
3199243	Soil	10.4	15.0	0.05	1135.0	0.007	<20	0.56	0.004	0.16	0.2	1.4	0.92	0.23	364	21.4	0.18	2.7
3199244	Soil	11.2	19.8	0.06	1552.5	0.009	<20	0.60	0.005	0.19	0.2	2.2	1.03	0.26	429	20.6	0.20	3.7
3199245	Soil	10.8	18.8	0.06	1173.4	0.007	<20	0.66	0.005	0.21	0.1	2.6	0.73	0.29	419	20.7	0.21	3.1
3199246	Soil	5.4	12.9	0.05	1889.5	0.014	<20	0.73	0.020	0.11	0.3	1.1	1.09	0.20	488	14.6	0.20	2.9
3199247	Soil	11.9	28.4	0.06	1620.8	0.010	<20	0.94	0.009	0.17	0.8	2.2	1.09	0.28	565	27.4	0.25	5.7
3199248	Soil	16.7	29.8	0.05	2100.2	0.007	<20	0.64	0.007	0.19	2.5	4.2	1.11	0.32	1145	45.8	0.47	7.4
3199249	Soil	17.1	51.4	0.03	480.1	0.007	<20	0.59	0.006	0.22	0.5	3.6	2.04	0.45	376	30.6	0.42	6.7
3199250	Soil	19.7	30.5	0.02	2486.6	0.009	<20	0.45	0.006	0.09	0.2	10.4	0.64	0.11	255	6.9	0.28	7.5
3199251	Soil	15.8	16.8	0.03	1116.8	0.021	<20	0.30	0.007	0.12	0.7	1.7	1.14	0.18	1157	34.2	0.57	4.6
3199252	Soil	14.4	25.2	0.07	1003.2	0.024	<20	0.39	0.008	0.19	1.2	2.6	1.87	0.32	1658	49.8	0.83	5.6
3199253	Soil	11.7	22.1	0.05	2144.7	0.008	<20	0.64	0.009	0.14	0.7	2.4	2.61	0.29	496	30.7	0.34	3.5



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Project:

MacMillan Pass

Report Date:

July 06, 2018

Page:

1 of 2

Part:

1 of 2

## QUALITY CONTROL REPORT

WHI18000125.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
3198144	Soil	48.44	17.37	35.28	66.2	2055	8.7	0.9	29	1.56	46.0	3.4	5.6	0.5	54.6	0.12	22.77	0.37	103	0.01	0.083
REP 3198144	QC	48.15	18.85	35.44	64.0	2089	9.0	0.9	29	1.60	46.2	3.4	3.4	0.5	53.8	0.14	22.36	0.37	105	0.01	0.079
3198180	Soil	29.32	24.07	153.62	17.5	1120	4.9	0.9	35	1.53	38.1	4.3	5.2	8.2	32.1	0.12	10.17	0.38	50	0.02	0.050
REP 3198180	QC	28.77	23.35	150.18	16.9	1069	4.9	1.1	34	1.54	36.9	4.2	3.7	7.9	31.4	0.08	9.98	0.35	50	0.02	0.052
3198216	Soil	56.24	29.91	43.43	92.8	1993	17.4	2.1	97	3.52	71.5	10.2	1.4	1.8	212.4	0.25	20.33	0.35	208	0.06	0.244
REP 3198216	QC	55.90	30.70	46.56	96.0	2043	18.0	2.2	102	3.53	72.1	10.7	0.8	1.9	223.2	0.24	20.27	0.37	210	0.06	0.241
3199112	Soil	38.84	18.92	30.82	21.9	568	3.5	1.0	30	1.92	29.1	2.1	5.5	0.9	18.5	0.07	15.00	0.24	209	0.02	0.050
REP 3199112	QC	39.05	19.82	31.49	21.6	605	3.9	1.0	30	1.94	29.4	2.1	3.0	1.0	18.7	0.11	15.20	0.25	209	0.02	0.055
3199157	Soil	19.52	250.92	8502.89	159.7	7515	26.7	3.4	113	7.10	1297.5	5.7	27.5	7.0	177.9	0.54	46.30	0.54	94	0.08	0.602
REP 3199157	QC	19.92	255.74	8766.65	157.2	7738	25.5	3.5	113	7.15	1317.6	5.7	26.0	7.1	181.1	0.54	45.36	0.57	96	0.08	0.580
3199184	Soil	131.46	34.32	160.03	10.4	2256	2.1	0.6	16	4.39	95.1	5.4	0.9	19.9	108.3	<0.01	14.53	0.85	94	0.02	0.096
REP 3199184	QC	130.21	35.45	156.15	11.1	2255	2.1	0.6	16	4.35	97.5	5.6	0.9	19.8	108.0	<0.01	14.21	0.80	95	0.02	0.098
3199220	Soil	3.69	6.35	9.03	3.2	198	1.3	0.5	12	0.34	4.5	0.5	1.2	<0.1	11.0	0.02	1.44	0.05	15	0.07	0.035
REP 3199220	QC	3.55	6.04	8.94	3.6	197	1.2	0.5	12	0.35	4.7	0.5	0.5	<0.1	11.4	<0.01	1.53	0.04	16	0.07	0.036
Reference Materials																					
STD DS11	Standard	14.00	149.23	139.89	343.7	1596	77.0	13.4	1016	3.12	43.6	2.4	53.0	7.4	68.8	2.42	8.07	12.48	50	1.04	0.074
STD DS11	Standard	16.19	151.31	145.44	348.9	1728	82.2	14.0	1070	3.22	45.1	2.6	96.5	8.3	73.3	2.38	7.00	12.16	52	1.10	0.075
STD DS11	Standard	15.08	153.04	147.08	355.8	1958	83.9	13.8	1059	3.23	46.5	2.5	67.5	7.7	72.6	2.46	7.95	12.32	53	1.09	0.075
STD DS11	Standard	15.31	154.41	143.03	355.0	1617	83.5	13.5	1029	3.10	45.1	2.7	105.6	7.9	70.2	2.49	8.59	11.68	48	1.05	0.072
STD DS11	Standard	14.58	150.12	132.78	334.9	1756	79.5	13.7	1013	3.09	42.1	2.5	47.8	7.4	69.3	2.33	7.24	11.93	47	1.02	0.069
STD DS11	Standard	14.38	150.59	135.92	334.5	1525	78.5	13.3	990	3.09	42.6	2.6	52.4	7.2	69.2	2.19	6.46	11.63	49	1.04	0.067
STD DS11	Standard	13.36	144.54	135.45	346.1	1564	78.9	13.8	1048	3.06	41.9	2.5	170.5	7.5	70.9	2.31	7.55	12.08	49	1.05	0.068
STD DS11	Standard	14.33	149.72	138.49	338.9	1706	80.7	13.8	1010	3.19	44.8	2.5	56.1	7.4	72.1	2.31	7.31	12.21	48	1.05	0.067
STD DS11	Standard	13.86	150.63	137.19	344.6	1738	81.0	13.7	1047	3.18	44.7	3.0	58.1	7.7	65.6	2.42	8.39	11.53	49	1.09	0.075
STD OREAS45EA	Standard	1.76	694.85	14.99	31.6	278	396.4	50.5	409	22.05	11.9	1.9	52.3	10.8	4.0	0.02	0.48	0.30	312	0.03	0.030
STD OREAS45EA	Standard	1.65	713.70	15.14	32.8	272	407.6	51.3	411	21.89	11.1	2.0	68.8	11.6	3.9	0.02	0.35	0.26	316	0.03	0.029
STD OREAS45EA	Standard	1.58	716.95	14.66	32.0	262	413.4	51.6	419	22.44	11.9	1.9	56.0	11.0	4.0	0.01	0.33	0.26	321	0.03	0.030
STD OREAS45EA	Standard	1.76	747.55	15.68	33.4	277	427.3	53.2	417	23.19	12.1	2.1	62.5	11.7	4.2	0.03	0.40	0.29	323	0.03	0.029



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MacMillan Pass

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Page:

1 of 2

Part:

2 of 2

## QUALITY CONTROL REPORT

WHI18000125.1

Method Analyte Unit MDL		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
3198144	Soil	12.1	12.7	0.04	745.0	0.009	<20	0.33	0.006	0.12	0.3	0.7	1.55	0.16	225	17.9	0.24	3.0
REP 3198144	QC	11.6	13.2	0.04	786.0	0.009	<20	0.35	0.006	0.12	0.3	0.8	1.56	0.17	256	18.6	0.29	3.0
3198180	Soil	35.4	14.6	0.05	287.7	0.009	<20	0.31	0.008	0.08	<0.1	2.5	0.56	0.12	821	9.3	0.21	4.1
REP 3198180	QC	34.8	15.0	0.05	286.1	0.009	<20	0.32	0.008	0.08	<0.1	2.5	0.55	0.11	802	9.6	0.31	4.1
3198216	Soil	14.8	33.6	0.10	1859.9	0.017	<20	0.87	0.006	0.20	0.4	2.1	1.70	0.31	245	23.9	0.26	6.2
REP 3198216	QC	16.3	34.1	0.10	1623.6	0.018	<20	0.90	0.006	0.21	0.4	2.1	1.87	0.30	285	25.1	0.32	6.4
3199112	Soil	26.1	13.4	0.03	655.4	0.012	<20	0.37	0.003	0.07	0.4	0.7	0.34	0.06	156	20.1	0.19	3.7
REP 3199112	QC	25.8	13.6	0.03	650.6	0.012	<20	0.37	0.004	0.06	0.4	0.8	0.35	0.06	159	20.5	0.21	3.8
3199157	Soil	22.9	30.6	0.04	880.4	0.010	<20	0.77	0.005	0.15	0.1	9.9	1.08	0.41	711	15.4	0.32	2.7
REP 3199157	QC	24.3	30.5	0.04	892.6	0.011	<20	0.78	0.005	0.15	0.1	10.4	1.10	0.42	673	15.5	0.34	2.7
3199184	Soil	18.1	19.5	0.05	599.0	0.009	<20	0.29	0.030	0.43	<0.1	3.6	4.51	0.95	1706	43.5	0.87	9.1
REP 3199184	QC	17.9	19.1	0.05	596.4	0.009	<20	0.29	0.030	0.42	0.1	3.3	4.44	0.94	1723	46.5	0.73	9.7
3199220	Soil	1.5	3.4	0.02	153.7	0.011	<20	0.41	0.028	0.03	<0.1	0.3	0.13	0.02	98	2.0	0.02	1.4
REP 3199220	QC	1.5	3.3	0.02	148.2	0.011	<20	0.40	0.027	0.03	<0.1	0.3	0.13	0.02	98	1.9	0.02	1.4
Reference Materials																		
STD DS11	Standard	17.4	56.0	0.83	402.5	0.089	<20	1.12	0.073	0.39	3.0	3.2	5.01	0.27	303	2.4	5.00	5.1
STD DS11	Standard	19.7	61.2	0.87	416.4	0.096	<20	1.20	0.077	0.41	3.1	3.4	5.28	0.29	271	1.9	5.38	5.3
STD DS11	Standard	19.2	58.7	0.87	400.6	0.094	<20	1.19	0.077	0.41	2.8	3.3	5.49	0.29	272	2.5	5.34	5.2
STD DS11	Standard	18.7	56.8	0.82	381.8	0.093	<20	1.13	0.068	0.41	2.7	3.1	5.25	0.29	312	2.3	4.96	5.4
STD DS11	Standard	17.3	57.4	0.81	402.8	0.089	<20	1.09	0.069	0.39	3.2	3.0	4.67	0.27	251	2.2	4.49	4.7
STD DS11	Standard	17.5	55.8	0.82	423.1	0.091	<20	1.14	0.071	0.39	2.5	3.1	4.85	0.28	246	1.8	4.47	4.7
STD DS11	Standard	17.8	58.8	0.83	354.3	0.090	<20	1.11	0.070	0.39	2.6	3.2	4.90	0.27	231	1.8	4.37	4.7
STD DS11	Standard	17.3	58.0	0.83	366.4	0.093	<20	1.09	0.071	0.40	2.9	3.3	4.97	0.29	276	1.9	4.83	5.1
STD DS11	Standard	17.5	57.0	0.86	410.0	0.092	<20	1.15	0.072	0.41	2.6	3.3	5.00	0.29	276	2.3	4.89	4.9
STD OREAS45EA	Standard	7.1	820.4	0.09	151.3	0.093	<20	3.27	0.023	0.05	<0.1	78.6	0.06	0.04	9	1.3	0.18	12.9
STD OREAS45EA	Standard	7.5	857.3	0.09	150.3	0.101	<20	3.40	0.023	0.06	<0.1	79.5	0.07	0.04	8	0.8	0.07	13.1
STD OREAS45EA	Standard	7.4	839.7	0.10	149.2	0.099	<20	3.41	0.025	0.06	<0.1	82.6	0.07	0.04	7	1.5	0.05	13.5
STD OREAS45EA	Standard	7.9	872.5	0.10	159.2	0.100	<20	3.44	0.019	0.06	<0.1	78.8	0.07	0.03	<5	1.1	0.15	13.0



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Page:

2 of 2

Part:

1 of 2

## QUALITY CONTROL REPORT

WHI18000125.1

		AQ250 Mo ppm 0.01	AQ250 Cu ppm 0.01	AQ250 Pb ppm 0.01	AQ250 Zn ppm 0.1	AQ250 Ag ppb 2	AQ250 Ni ppm 0.1	AQ250 Co ppm 0.1	AQ250 Mn ppm 1	AQ250 Fe % 0.01	AQ250 As ppm 0.1	AQ250 U ppm 0.1	AQ250 Au ppb 0.2	AQ250 Th ppm 0.1	AQ250 Sr ppm 0.5	AQ250 Cd ppm 0.01	AQ250 Sb ppm 0.02	AQ250 Bi ppm 0.02	AQ250 V ppm 1	AQ250 Ca % 0.01	AQ250 P % 0.001
STD OREAS45EA	Standard	1.51	686.88	13.71	29.6	233	379.4	51.6	411	20.96	10.5	1.7	50.6	9.7	3.8	0.01	0.36	0.25	298	0.04	0.028
STD OREAS45EA	Standard	1.42	679.43	13.88	28.9	238	387.3	50.8	405	21.15	9.8	1.8	54.6	9.8	3.8	<0.01	0.31	0.26	312	0.04	0.026
STD OREAS45EA	Standard	1.61	722.26	15.10	33.2	253	410.0	55.4	443	23.42	11.3	1.8	50.8	10.7	4.0	<0.01	0.26	0.27	322	0.04	0.028
STD OREAS45EA	Standard	1.55	705.88	13.88	31.0	246	390.7	50.8	415	22.68	11.6	1.9	58.4	10.4	3.8	<0.01	0.33	0.27	305	0.04	0.030
STD OREAS45EA Expected		1.6	709	14.3	31.4	260	381	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029
STD DS11 Expected		13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	8	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.05	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.01	<0.1	6	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.09	0.2	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



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**Project:**

MacMillan Pass

**Report Date:**

July 06, 2018

**Page:**

2 of 2

**Part:**

2 of 2

## QUALITY CONTROL REPORT

WHI18000125.1

		AQ250 La ppm 0.5	AQ250 Cr ppm 0.5	AQ250 Mg % 0.01	AQ250 Ba ppm 0.5	AQ250 Ti % 0.001	AQ250 B ppm 20	AQ250 Al % 0.01	AQ250 Na % 0.001	AQ250 K % 0.01	AQ250 W ppm 0.1	AQ250 Sc ppm 0.1	AQ250 Ti ppm 0.02	AQ250 S % 0.02	AQ250 Hg ppb 5	AQ250 Se ppm 0.1	AQ250 Te ppm 0.02	AQ250 Ga ppm 0.1
STD OREAS45EA	Standard	6.9	796.4	0.09	140.9	0.098	<20	3.30	0.015	0.06	<0.1	76.1	0.06	0.03	<5	1.2	0.09	12.0
STD OREAS45EA	Standard	6.7	782.1	0.09	138.2	0.095	<20	3.18	0.017	0.06	<0.1	74.7	0.07	0.03	9	0.5	0.08	11.8
STD OREAS45EA	Standard	7.6	871.6	0.10	149.2	0.103	<20	3.49	0.016	0.06	<0.1	80.2	0.06	0.04	22	1.2	0.09	13.3
STD OREAS45EA	Standard	6.8	852.7	0.10	140.0	0.098	<20	3.39	0.015	0.05	<0.1	76.9	0.08	0.03	6	1.1	0.12	13.0
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.32	0.02	0.053		78	0.072	0.036	10	0.78	0.1	12.4
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	8	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1