



**BUREAU
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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 26, 2018

Report Date: July 21, 2018

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CERTIFICATE OF ANALYSIS

WHI18000176.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-005
P.O. Number
Number of Samples: 143

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	140	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
AQ250	143	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	143	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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



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	Method Analyte Unit MDL	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
3199337	Soil	5.46	12.53	14.30	48.7	620	6.0	1.2	25	1.15	22.6	0.4	2.1	<0.1	9.2	0.06	1.92	0.27	38	<0.01	0.037
3199338	Soil	9.62	30.75	32.34	121.0	1234	23.2	5.8	213	4.43	70.3	1.5	8.9	1.3	26.8	0.24	5.79	0.43	67	0.03	0.185
3199339	Soil	8.35	35.96	13.62	128.7	251	17.9	3.0	49	2.15	22.2	0.5	6.2	0.1	8.0	0.12	3.04	0.41	57	<0.01	0.053
3199340	Soil	8.90	31.96	58.01	96.3	1125	15.3	2.7	55	2.59	40.2	0.8	3.7	<0.1	18.9	0.09	5.15	0.77	63	<0.01	0.109
3199341	Soil	10.40	48.37	56.08	155.7	1004	23.1	3.9	67	2.96	34.7	0.6	11.4	0.2	20.7	0.12	5.15	0.78	69	<0.01	0.095
3199342	Soil	4.51	8.66	14.95	40.9	128	7.8	1.6	26	1.02	13.4	0.5	3.1	0.2	7.9	0.02	0.93	0.25	39	<0.01	0.032
3199343	Soil	6.84	17.71	23.05	73.1	419	16.4	4.1	103	3.85	37.8	1.2	1.5	1.2	16.4	0.13	2.47	0.34	64	0.04	0.182
3199344	Soil	4.30	13.60	3.43	9.5	130	0.9	0.4	6	12.69	101.4	1.9	0.3	0.2	2.3	0.03	3.85	0.05	294	0.01	0.415
3199345	Soil	1.54	60.99	2.97	9.4	4380	5.0	0.6	9	0.81	4.3	4.2	2.7	<0.1	5.4	0.11	0.47	0.06	11	0.02	0.089
3199346	Soil	1.65	61.56	6.08	12.1	2805	5.3	0.7	9	1.54	4.7	5.7	1.7	<0.1	5.3	0.11	0.53	0.06	13	0.02	0.091
3199347	Soil	10.96	35.81	49.46	99.3	985	17.9	3.4	106	4.55	35.5	2.1	11.8	5.4	39.6	0.17	4.98	0.54	67	0.05	0.174
3199348	Soil	6.95	14.28	24.43	30.8	1415	6.5	1.2	30	1.80	16.3	1.4	2.8	0.3	32.4	0.14	1.81	0.35	36	0.04	0.119
3199349	Soil	24.77	36.38	75.87	88.5	1398	19.6	3.0	79	3.77	54.1	5.2	17.0	10.4	167.6	0.27	5.37	0.74	115	0.23	0.502
3199350	Soil	27.41	48.95	50.82	101.7	956	19.7	3.4	94	3.65	68.3	7.7	6.5	4.8	66.6	0.36	6.01	0.60	106	0.06	0.224
3199351	Soil	14.16	45.47	36.86	49.7	1574	11.3	0.8	22	1.08	38.2	15.5	0.4	1.6	20.4	0.58	3.90	0.30	53	0.21	0.230
3199352	Soil	14.37	67.24	28.07	706.2	1285	109.4	12.5	115	3.12	42.0	8.2	0.7	2.3	27.8	4.15	5.75	0.26	49	0.48	0.230
3199353	Soil	9.98	44.31	32.68	277.2	745	53.4	17.5	518	3.07	29.3	3.5	3.2	4.2	19.1	1.00	4.00	0.27	43	0.18	0.147
3199354	Soil	9.56	38.54	30.74	216.9	658	43.1	10.9	351	2.84	23.6	3.2	2.6	2.5	16.7	0.98	3.41	0.26	37	0.13	0.122
3199355	Soil	12.02	40.54	40.88	277.3	445	69.4	8.6	177	3.31	37.9	3.5	2.6	4.6	29.9	1.24	4.50	0.34	46	0.17	0.170
3199356	Soil	0.32	3.13	2.00	4.9	420	1.3	0.3	10	0.23	0.9	0.2	<0.2	<0.1	5.2	0.06	0.13	0.03	4	0.02	0.023
3199357	Soil	6.70	25.42	26.25	119.9	325	25.7	4.3	103	3.17	38.9	1.4	1.2	0.9	15.5	0.49	2.12	0.32	42	0.03	0.091
3199358	Soil	0.27	1.73	1.70	3.1	256	1.0	0.2	5	0.13	0.3	0.2	<0.2	<0.1	4.3	0.04	0.06	<0.02	4	0.02	0.025
3199359	Soil	3.04	22.07	15.34	42.0	270	8.8	0.8	13	0.54	7.0	1.3	0.5	<0.1	6.3	0.68	0.66	0.14	20	<0.01	0.036
3199360	Rock Pulp	0.63	23.07	1.99	20.1	25	16.5	5.7	245	1.40	0.5	0.4	1.3	2.8	26.7	0.03	0.04	<0.02	21	0.59	0.055
3199361	Soil	5.00	16.73	16.40	68.0	675	17.2	1.9	34	1.11	11.2	1.2	0.3	<0.1	6.9	0.27	1.16	0.14	26	0.02	0.063
3199362	Soil	6.10	17.05	21.98	95.5	532	18.9	3.3	121	1.68	21.8	1.3	0.9	0.1	9.2	0.20	1.33	0.22	41	0.04	0.076
3199363	Soil	22.60	59.82	23.15	588.2	211	55.3	11.6	131	4.08	56.1	1.3	1.5	1.5	1.9	0.66	6.02	0.22	64	<0.01	0.053
3199364	Soil	11.12	35.21	35.51	297.8	1060	38.4	6.6	98	3.34	36.7	1.2	2.6	3.9	7.2	0.43	3.64	0.24	45	0.07	0.167
3199365	Soil	11.46	35.20	42.63	398.4	328	35.5	9.9	376	4.06	30.5	1.6	1.6	0.5	6.5	0.94	3.16	0.21	39	0.04	0.102
3199366	Soil	6.17	18.41	19.66	141.7	355	16.2	3.5	102	2.05	20.8	0.9	0.5	<0.1	10.1	0.47	1.20	0.22	41	0.06	0.060



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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
3199337	Soil	13.7	5.8	0.02	87.5	0.006	<20	0.39	0.009	0.03	0.1	0.3	0.31	<0.02	21	1.7	0.09	3.7
3199338	Soil	14.5	27.9	0.24	211.1	0.017	<20	1.13	0.005	0.10	0.2	1.5	0.48	0.08	49	4.9	0.17	4.3
3199339	Soil	18.2	8.4	<0.01	53.7	0.005	<20	0.30	0.004	0.03	0.1	0.3	0.13	<0.02	16	2.0	0.13	2.6
3199340	Soil	12.2	11.4	0.03	107.1	0.005	<20	0.52	0.006	0.05	0.1	0.4	0.37	0.05	18	3.4	0.18	4.6
3199341	Soil	14.9	11.9	0.01	90.2	0.006	<20	0.37	0.003	0.05	0.1	0.5	0.30	0.04	11	3.6	0.19	3.2
3199342	Soil	19.2	5.7	0.02	74.3	0.008	<20	0.38	0.003	0.03	0.1	0.4	0.18	<0.02	<5	0.8	0.06	3.8
3199343	Soil	14.5	27.5	0.18	150.9	0.014	<20	1.04	0.004	0.07	0.2	1.2	0.28	0.05	39	2.5	0.10	4.7
3199344	Soil	0.9	22.6	<0.01	25.3	0.007	<20	0.28	0.016	0.01	<0.1	0.3	<0.02	0.18	31	1.1	<0.02	1.0
3199345	Soil	2.3	6.6	0.02	86.4	0.003	<20	0.36	0.020	0.02	<0.1	0.3	0.26	0.08	194	2.7	<0.02	0.8
3199346	Soil	3.3	6.4	0.02	242.2	0.003	<20	0.40	0.018	0.02	<0.1	0.5	0.27	0.11	194	2.3	<0.02	0.8
3199347	Soil	20.7	28.4	0.33	326.7	0.047	<20	1.18	0.007	0.17	0.5	2.6	0.76	0.12	80	4.2	0.13	6.8
3199348	Soil	7.8	11.9	0.08	217.3	0.011	<20	0.54	0.017	0.05	0.2	0.8	0.38	0.05	76	1.5	0.06	2.8
3199349	Soil	21.4	40.8	0.21	1030.6	0.021	<20	1.39	0.007	0.13	0.4	3.7	0.99	0.09	74	5.1	0.25	5.5
3199350	Soil	18.3	30.0	0.25	725.9	0.023	<20	1.20	0.007	0.14	0.3	3.9	0.98	0.12	79	4.5	0.21	4.7
3199351	Soil	17.4	18.4	0.13	143.2	0.002	<20	0.62	0.002	0.05	0.1	2.3	1.04	0.02	310	4.0	0.10	1.6
3199352	Soil	13.7	13.9	0.15	183.9	0.003	<20	0.75	0.003	0.05	0.1	2.0	0.45	0.02	243	2.0	0.12	1.5
3199353	Soil	22.5	19.1	0.33	176.9	0.017	<20	1.11	0.005	0.09	0.1	2.5	0.27	<0.02	151	2.2	0.08	3.0
3199354	Soil	19.2	17.0	0.28	191.6	0.016	<20	1.07	0.009	0.09	0.2	2.0	0.28	<0.02	140	1.9	0.08	3.0
3199355	Soil	20.2	19.2	0.30	307.5	0.019	<20	1.29	0.006	0.13	0.2	2.5	0.32	0.05	105	3.0	0.08	3.3
3199356	Soil	1.4	1.3	0.01	33.4	0.003	<20	0.31	0.027	0.03	<0.1	0.1	0.03	<0.02	17	0.1	<0.02	0.9
3199357	Soil	20.6	20.3	0.24	242.7	0.010	<20	1.18	0.005	0.11	0.2	1.3	0.24	0.03	19	1.5	0.10	4.2
3199358	Soil	0.6	1.2	<0.01	13.0	0.003	<20	0.14	0.024	0.02	<0.1	<0.1	0.03	<0.02	19	<0.1	<0.02	0.5
3199359	Soil	19.1	8.2	0.01	83.0	0.004	<20	0.39	0.003	0.03	<0.1	0.3	0.22	<0.02	24	0.3	0.05	2.6
3199360	Rock Pulp	16.0	26.2	0.44	54.6	0.067	<20	0.74	0.075	0.11	<0.1	2.6	0.07	<0.02	8	<0.1	<0.02	2.5
3199361	Soil	8.2	8.9	0.06	111.9	0.003	<20	0.48	0.009	0.04	<0.1	0.3	0.16	0.03	54	0.7	0.03	2.0
3199362	Soil	14.0	13.8	0.12	123.6	0.011	<20	0.65	0.009	0.06	0.1	0.7	0.21	<0.02	52	0.9	0.05	3.2
3199363	Soil	16.6	5.5	0.02	51.2	0.004	<20	0.39	0.002	0.04	0.2	1.7	0.15	<0.02	10	1.8	0.13	2.1
3199364	Soil	17.3	9.9	0.06	83.2	0.008	<20	0.55	0.003	0.05	0.1	1.7	0.19	<0.02	12	1.4	0.08	2.7
3199365	Soil	11.2	12.5	0.07	145.6	0.005	<20	0.70	0.006	0.05	<0.1	1.0	0.24	<0.02	37	2.6	0.08	2.1
3199366	Soil	15.7	10.7	0.07	289.6	0.006	<20	0.73	0.005	0.04	0.1	0.5	0.19	<0.02	31	0.9	0.06	3.4



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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
3199367	Soil	7.34	37.36	26.50	156.1	581	36.8	3.5	101	1.60	11.2	4.9	1.9	0.2	13.3	0.29	1.55	0.15	35	0.11	0.071
3199368	Soil	33.29	32.42	39.24	232.1	1137	60.9	4.2	118	2.11	20.2	2.9	5.3	0.3	12.9	0.28	3.68	0.18	104	0.07	0.099
3199369	Soil	40.22	59.95	56.38	437.6	702	118.6	9.1	349	3.78	27.3	5.3	3.0	1.4	17.5	0.62	6.15	0.20	107	0.17	0.161
3199370	Soil	33.55	489.94	43.07	1907.0	1350	574.2	83.6	2204	3.41	23.1	30.8	2.6	4.3	46.9	12.13	6.11	0.18	71	1.32	0.140
3199371	Soil	37.39	236.97	55.55	1097.6	1262	386.6	46.3	1782	3.32	27.0	15.8	2.0	3.2	34.3	7.05	6.47	0.22	84	0.55	0.146
3199372	Soil	13.17	144.01	69.85	39.4	1070	21.0	2.6	104	4.34	47.3	3.5	7.0	2.6	63.9	0.11	6.10	0.43	126	0.03	0.283
3199373	Soil	5.00	98.47	40.14	31.9	796	15.7	2.8	102	2.22	19.3	1.6	4.9	3.1	41.6	0.06	2.52	0.22	32	0.05	0.142
3199374	Soil	11.46	204.13	91.51	57.0	1216	33.9	4.9	180	4.67	41.1	3.4	6.5	5.3	86.5	0.09	4.65	0.48	71	0.03	0.265
3199375	Soil	8.64	78.91	41.99	59.6	558	31.3	4.2	94	2.49	20.2	1.3	8.7	0.2	23.7	0.11	2.99	0.35	39	0.01	0.101
3199376	Soil	9.15	79.98	37.53	66.0	854	34.7	5.2	204	2.64	20.0	1.2	6.8	<0.1	14.8	0.13	3.05	0.38	42	0.02	0.091
3199377	Soil	0.74	3.95	5.26	4.3	83	2.5	0.4	11	0.21	0.9	0.2	<0.2	<0.1	4.3	0.02	0.18	0.03	4	0.01	0.047
3199378	Soil	0.33	3.13	1.82	2.8	58	0.9	0.4	14	0.23	0.5	0.2	<0.2	<0.1	6.3	0.03	0.06	<0.02	4	0.02	0.031
3199379	Soil	8.99	41.93	31.43	126.4	194	27.8	3.7	52	1.99	40.4	0.6	7.4	0.3	10.8	0.14	3.24	0.21	38	<0.01	0.049
3199380	Soil	0.47	3.49	1.86	4.0	70	1.5	0.5	9	0.24	0.6	0.2	<0.2	<0.1	5.9	0.02	0.07	0.02	5	0.02	0.030
3199381	Soil	9.75	127.38	51.73	266.7	462	65.3	9.7	127	3.96	48.5	0.8	8.0	0.2	15.8	0.33	5.55	0.45	52	<0.01	0.095
3199382	Soil	7.45	64.25	57.51	155.3	460	41.8	5.6	149	2.42	56.6	1.0	4.2	<0.1	14.7	0.56	3.19	0.26	34	0.10	0.098
3199383	Soil	9.67	37.09	28.53	144.6	265	34.6	4.2	134	1.81	22.3	1.2	3.2	0.7	12.3	0.56	2.66	0.15	37	0.08	0.052
3199384	Soil	9.55	38.88	29.20	140.5	277	29.9	3.9	127	1.80	23.0	1.2	3.7	1.1	11.6	0.50	2.63	0.18	34	0.06	0.049
3199385	Soil	20.00	43.14	43.38	290.6	517	67.8	7.8	272	2.60	26.9	2.3	2.8	4.2	19.0	1.40	4.92	0.22	55	0.20	0.120
3199386	Soil	6.73	30.23	31.23	262.2	439	40.6	3.9	137	1.59	15.8	4.3	3.7	1.1	22.7	1.06	1.94	0.17	36	0.34	0.064
3199387	Soil	9.10	40.81	40.62	280.2	653	49.1	4.7	188	1.95	19.4	5.7	4.7	2.1	20.2	0.93	2.24	0.23	40	0.21	0.076
3199388	Soil	7.35	27.58	33.70	241.2	398	38.2	4.1	274	1.53	13.5	4.5	2.9	0.7	33.6	1.21	1.81	0.20	35	0.59	0.092
3199389	Soil	8.11	26.77	40.83	298.1	474	43.1	4.8	242	1.80	15.9	4.6	2.7	1.1	24.9	0.98	1.78	0.22	40	0.32	0.078
3199390	Soil	4.83	19.81	25.58	171.1	357	28.2	2.4	81	1.15	9.5	1.9	1.6	0.5	23.5	0.73	1.12	0.15	30	0.38	0.054
3199391	Soil	8.54	28.93	51.64	229.0	854	33.3	3.8	195	1.88	18.5	3.0	4.7	1.1	20.6	0.69	1.47	0.23	49	0.20	0.072
3199392	Soil	9.27	28.36	56.38	201.6	742	33.3	4.4	216	1.80	20.0	2.2	9.3	1.0	24.3	1.19	1.70	0.25	51	0.27	0.088
3199393	Soil	3.83	18.49	29.39	68.1	2903	15.2	1.0	27	0.74	6.6	1.2	2.1	0.2	21.5	0.53	0.79	0.10	27	0.26	0.071
3199394	Soil	11.90	26.33	50.79	136.8	273	30.1	7.6	379	2.33	24.3	1.7	1.5	1.5	17.3	0.39	2.66	0.18	44	0.16	0.101
3199395	Soil	8.10	20.17	46.77	59.2	1151	18.9	1.8	45	1.48	14.1	1.7	3.0	0.1	18.3	0.29	1.55	0.17	31	0.09	0.111
3199396	Soil	20.98	40.44	47.51	248.9	1333	65.7	7.5	199	2.28	16.3	6.3	2.1	0.4	16.3	0.44	3.74	0.15	52	0.10	0.123



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Project: MacMillan Pass

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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
		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
3199367	Soil	7.2	8.7	0.06	208.4	0.004	<20	0.80	0.018	0.05	<0.1	0.9	0.32	0.03	130	1.1	0.05	2.1
3199368	Soil	11.6	13.2	0.11	98.4	0.006	<20	0.61	0.005	0.04	0.1	0.8	0.54	0.02	136	2.6	0.10	3.5
3199369	Soil	11.4	16.5	0.14	116.2	0.004	<20	0.77	0.003	0.05	0.1	1.3	0.68	0.03	151	4.4	0.11	1.8
3199370	Soil	14.1	19.3	0.62	225.4	0.003	<20	1.86	0.004	0.06	<0.1	4.3	0.78	0.08	198	4.8	0.13	1.0
3199371	Soil	14.0	17.6	0.25	217.2	0.004	<20	1.03	0.003	0.07	<0.1	3.0	0.78	0.07	293	5.8	0.13	1.2
3199372	Soil	22.7	19.4	0.05	111.8	0.006	<20	0.87	0.002	0.08	<0.1	2.5	0.28	0.09	52	6.5	0.21	2.0
3199373	Soil	14.6	7.0	0.03	53.8	0.008	<20	0.57	0.013	0.05	<0.1	1.8	0.17	0.04	8	3.0	0.09	1.3
3199374	Soil	28.4	15.2	0.04	111.5	0.006	<20	0.86	0.003	0.08	<0.1	3.1	0.33	0.09	35	6.0	0.21	1.9
3199375	Soil	10.5	10.3	0.04	54.7	0.003	<20	0.53	0.004	0.04	<0.1	0.3	0.15	0.06	48	3.1	0.12	2.5
3199376	Soil	10.5	12.1	0.05	54.5	0.004	<20	0.65	0.007	0.04	<0.1	0.3	0.15	0.04	28	3.8	0.12	3.1
3199377	Soil	1.0	2.6	<0.01	11.7	0.003	<20	0.15	0.018	0.03	<0.1	<0.1	<0.02	0.03	14	0.2	<0.02	0.8
3199378	Soil	1.0	1.3	0.01	12.8	0.005	<20	0.24	0.023	0.02	<0.1	<0.1	<0.02	<0.02	19	0.2	<0.02	1.5
3199379	Soil	19.5	6.3	<0.01	48.8	0.006	<20	0.26	0.007	0.03	0.1	0.4	0.07	0.02	16	2.7	0.11	2.0
3199380	Soil	1.0	1.5	0.01	12.2	0.005	<20	0.21	0.022	0.02	<0.1	<0.1	<0.02	0.02	11	0.2	<0.02	1.3
3199381	Soil	22.1	10.0	0.01	75.4	0.003	<20	0.37	<0.001	0.04	<0.1	0.5	0.12	0.03	13	3.1	0.19	2.6
3199382	Soil	12.1	13.4	0.08	81.7	0.003	<20	0.51	0.008	0.05	<0.1	0.3	0.12	0.04	46	2.7	0.09	2.1
3199383	Soil	19.1	11.0	0.08	129.8	0.004	<20	0.47	0.001	0.06	<0.1	0.9	0.19	0.02	41	2.2	0.08	1.4
3199384	Soil	20.6	9.5	0.06	123.1	0.003	<20	0.40	0.002	0.06	<0.1	1.0	0.16	0.02	43	2.1	0.06	1.3
3199385	Soil	20.9	14.9	0.19	129.5	0.008	<20	0.61	0.003	0.07	0.1	1.9	0.31	0.02	118	3.7	0.10	1.6
3199386	Soil	13.3	12.5	0.14	224.4	0.005	<20	0.68	0.003	0.09	<0.1	1.5	0.25	0.03	90	2.2	0.08	2.0
3199387	Soil	18.0	13.7	0.14	249.3	0.007	<20	0.76	0.004	0.09	0.4	2.0	0.28	<0.02	125	1.6	0.07	2.0
3199388	Soil	9.3	12.3	0.14	310.9	0.006	<20	0.86	0.007	0.09	<0.1	1.2	0.25	0.05	93	2.5	0.05	2.3
3199389	Soil	13.3	13.7	0.14	302.5	0.007	<20	0.92	0.007	0.09	<0.1	1.5	0.29	0.02	121	1.5	0.06	2.5
3199390	Soil	9.8	11.1	0.12	294.1	0.004	<20	0.63	0.006	0.08	<0.1	0.9	0.22	0.03	54	1.6	0.05	2.0
3199391	Soil	13.8	13.7	0.13	397.0	0.005	<20	0.98	0.009	0.11	<0.1	1.5	0.33	<0.02	137	1.9	0.07	2.7
3199392	Soil	13.2	15.1	0.12	403.2	0.005	<20	0.93	0.007	0.12	<0.1	1.6	0.33	0.03	160	3.5	0.08	3.1
3199393	Soil	4.2	9.6	0.07	655.9	0.004	<20	0.58	0.023	0.09	<0.1	0.8	0.17	0.04	135	1.6	0.04	2.4
3199394	Soil	19.6	14.6	0.16	319.5	0.004	<20	0.62	0.002	0.08	<0.1	1.1	0.23	<0.02	48	2.4	0.09	2.0
3199395	Soil	9.5	17.3	0.10	363.2	0.001	<20	0.65	0.006	0.10	<0.1	0.4	0.25	0.06	150	1.8	0.06	2.3
3199396	Soil	10.7	12.5	0.09	162.8	0.005	<20	0.81	0.009	0.04	<0.1	0.8	0.41	0.04	164	2.6	0.08	2.0



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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
3199397	Soil	1.76	7.88	5.42	11.5	266	4.3	0.7	17	0.49	2.5	0.8	0.7	<0.1	8.2	0.08	0.51	0.04	9	0.03	0.055
3199398	Soil	15.71	26.08	24.40	112.6	464	39.7	3.2	116	1.75	16.0	1.8	2.0	<0.1	17.6	0.33	3.41	0.20	41	0.03	0.092
3199399	Soil	12.54	15.58	35.79	58.8	428	20.5	1.8	64	1.02	11.7	1.0	0.8	<0.1	28.1	0.17	2.53	0.21	37	0.03	0.097
3199400	Rock Pulp	12.47	158.30	283.69	206.6	104	79.3	49.7	273	1.61	9.4	0.4	38.2	3.1	31.1	0.50	0.17	0.14	24	0.57	0.052
3199401	Soil	23.97	33.45	47.47	32.3	1852	12.0	1.4	47	1.43	14.2	2.3	3.4	3.3	13.6	0.08	5.88	0.19	44	0.01	0.047
3199402	Soil	5.81	12.95	13.46	9.8	1192	3.4	0.5	23	0.49	3.5	1.4	2.5	<0.1	5.4	0.04	1.44	0.08	13	0.01	0.035
3199403	Soil	19.22	22.99	30.12	22.0	914	8.8	1.0	48	1.08	10.7	1.1	2.5	<0.1	8.9	0.07	3.96	0.15	37	<0.01	0.048
3199404	Soil	48.56	37.32	34.77	472.1	348	114.7	7.5	493	2.58	27.7	3.1	0.9	0.1	10.2	2.18	6.98	0.20	132	0.09	0.177
3199405	Soil	42.30	33.16	35.07	645.9	433	146.7	8.0	212	2.89	26.4	7.8	1.4	0.6	21.9	2.62	6.73	0.19	114	0.40	0.175
3199406	Soil	0.98	5.83	1.15	27.9	30	131.3	3.1	187	0.20	0.2	1.5	<0.2	<0.1	12.8	0.28	0.26	<0.02	5	0.27	0.050
3199407	Soil	3.29	9.01	5.25	53.0	464	20.4	0.6	25	0.27	2.5	1.3	<0.2	<0.1	11.5	0.30	0.75	<0.02	23	0.24	0.050
3199408	Soil	29.48	104.49	39.98	542.5	1036	159.4	11.5	270	2.89	24.0	6.6	4.9	1.9	31.0	3.08	7.30	0.29	88	0.38	0.153
3199409	Soil	36.24	112.30	42.05	629.3	1106	185.3	16.1	450	3.25	27.1	8.1	3.2	2.8	31.2	3.44	8.18	0.32	97	0.41	0.162
3199410	Soil	11.02	54.50	77.70	251.7	836	39.9	3.7	105	2.39	33.3	2.2	9.6	3.0	23.8	0.90	3.15	0.22	48	0.25	0.061
3199411	Soil	7.96	41.35	53.91	268.1	1572	41.0	3.1	231	1.81	20.0	5.7	6.7	0.9	44.1	1.36	2.19	0.21	44	0.65	0.109
3199412	Soil	21.69	50.26	94.82	481.9	630	60.9	4.5	197	2.60	36.8	2.9	4.9	3.0	19.9	1.09	3.77	0.19	49	0.16	0.068
3199413	Soil	19.85	47.81	101.05	403.0	784	55.6	4.2	223	2.51	33.8	3.2	13.7	1.8	27.8	1.12	3.38	0.22	56	0.30	0.085
3199414	Soil	12.92	37.86	101.28	332.6	1221	39.8	2.3	106	2.04	27.1	3.6	5.6	1.2	38.6	1.11	2.60	0.23	49	0.46	0.088
3199415	Soil	9.29	47.21	77.59	329.9	901	43.3	3.5	634	2.21	25.4	8.3	4.9	1.1	31.7	1.38	2.65	0.21	38	0.48	0.100
3199416	Soil	0.06	1.69	0.71	5.9	64	0.9	0.3	18	0.14	0.3	1.1	<0.2	<0.1	11.3	0.02	<0.02	<0.02	3	0.17	0.034
3199417	Soil	12.88	22.74	102.67	221.7	761	57.9	2.6	2634	1.72	13.5	7.3	1.1	0.4	36.2	1.10	2.65	0.11	30	0.64	0.090
3199418	Soil	8.13	47.97	60.03	128.1	780	27.4	4.1	293	2.42	29.2	6.0	6.2	2.4	24.4	0.41	2.65	0.20	49	0.36	0.070
3199419	Soil	5.39	40.50	71.32	159.5	777	28.0	4.4	168	2.19	22.1	7.8	4.0	2.5	33.8	0.83	2.37	0.23	45	0.35	0.105
3199420	Soil	5.77	40.98	71.16	157.7	796	29.8	5.9	260	2.37	24.0	8.3	4.4	2.3	34.9	0.94	2.48	0.23	45	0.38	0.118
3198309	Soil	10.75	18.15	29.88	100.8	919	24.0	3.9	127	5.75	60.1	1.2	3.4	1.6	11.9	0.19	4.80	0.36	72	<0.01	0.139
3198310	Soil	6.00	9.84	6.97	40.2	210	9.2	1.3	17	0.76	10.5	0.5	6.4	<0.1	5.1	0.04	1.26	0.14	29	<0.01	0.032
3198311	Soil	12.45	25.89	36.16	83.2	341	16.0	2.5	57	6.25	86.9	1.4	2.7	0.7	18.1	0.15	5.38	0.54	101	0.01	0.240
3198312	Soil	9.94	13.62	36.80	57.7	959	11.2	1.9	41	2.36	47.8	0.7	1.6	0.1	10.6	0.08	3.74	0.44	53	0.02	0.089
3198313	Soil	7.57	12.41	12.58	41.2	453	7.6	1.4	21	0.98	18.9	0.4	<0.2	<0.1	5.4	0.05	1.83	0.22	41	<0.01	0.040
3198314	Soil	21.26	221.91	27.76	1463.2	1430	233.0	64.0	1048	5.60	48.8	25.2	3.3	5.1	28.3	12.19	6.25	0.25	58	0.37	0.267



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		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
3199397	Soil	1.6	4.7	0.02	24.0	0.004	<20	0.49	0.022	0.03	<0.1	<0.1	0.04	0.04	34	0.7	<0.02
3199398	Soil	7.0	18.7	0.05	72.4	0.004	<20	0.80	0.009	0.04	<0.1	0.2	0.22	0.05	48	3.1	0.12
3199399	Soil	6.8	12.2	0.02	85.7	0.002	<20	0.36	0.013	0.06	<0.1	0.1	0.19	0.05	34	2.6	0.12
3199400	Rock Pulp	26.0	33.1	0.48	62.9	0.073	<20	0.83	0.089	0.11	<0.1	2.9	0.09	0.04	14	<0.1	<0.02
3199401	Soil	13.2	11.8	0.02	323.4	0.005	<20	0.24	0.003	0.06	<0.1	1.6	0.21	0.05	143	9.1	0.15
3199402	Soil	4.4	4.5	0.01	75.9	0.006	<20	0.42	0.018	0.03	<0.1	0.2	0.08	0.02	92	2.4	0.04
3199403	Soil	11.2	8.8	0.01	180.1	0.003	<20	0.29	0.004	0.04	<0.1	0.3	0.14	0.03	62	6.1	0.11
3199404	Soil	8.9	19.5	0.14	103.2	0.002	<20	0.61	0.005	0.06	0.1	0.4	0.77	0.05	43	4.2	0.14
3199405	Soil	11.6	23.8	0.23	110.4	0.004	<20	0.64	0.001	0.07	0.1	1.4	0.69	<0.02	96	3.4	0.15
3199406	Soil	2.7	1.3	0.03	17.2	0.015	<20	0.66	0.040	0.03	<0.1	0.4	0.12	0.04	15	1.0	<0.02
3199407	Soil	1.7	3.6	0.03	31.4	0.002	<20	0.21	0.029	0.02	<0.1	0.1	0.12	0.03	98	0.5	<0.02
3199408	Soil	12.9	14.9	0.13	183.1	0.003	<20	0.51	0.004	0.06	<0.1	2.0	0.65	0.05	278	4.5	0.15
3199409	Soil	16.8	16.1	0.13	182.1	0.003	<20	0.51	0.003	0.07	<0.1	2.4	0.67	0.06	305	5.1	0.15
3199410	Soil	15.8	11.6	0.05	259.5	0.002	<20	0.54	0.004	0.10	<0.1	2.4	0.25	0.03	109	3.1	0.11
3199411	Soil	8.0	11.8	0.11	361.3	0.004	<20	0.85	0.017	0.10	<0.1	1.6	0.27	0.06	167	2.4	0.09
3199412	Soil	18.3	9.4	0.04	272.9	0.002	<20	0.41	0.002	0.07	<0.1	1.9	0.28	0.02	137	3.2	0.10
3199413	Soil	12.7	9.9	0.05	346.6	0.002	<20	0.58	0.006	0.08	<0.1	1.7	0.33	0.04	257	3.2	0.11
3199414	Soil	13.4	11.1	0.08	451.1	0.002	<20	0.66	0.003	0.10	<0.1	1.6	0.32	0.04	220	3.2	0.11
3199415	Soil	12.0	10.8	0.10	641.3	0.004	<20	0.61	0.006	0.07	<0.1	1.6	0.20	0.06	151	2.7	0.08
3199416	Soil	1.3	0.8	0.02	29.5	0.009	<20	0.37	0.034	0.02	<0.1	0.2	0.02	<0.02	10	0.2	<0.02
3199417	Soil	7.1	6.2	0.05	212.8	0.007	<20	0.40	0.020	0.04	<0.1	0.8	0.14	0.06	156	1.8	0.05
3199418	Soil	16.3	13.4	0.08	1158.7	0.004	<20	0.72	0.003	0.12	<0.1	2.3	0.27	0.05	216	2.4	0.08
3199419	Soil	16.2	15.9	0.16	1806.5	0.004	<20	0.86	0.004	0.12	<0.1	2.1	0.23	0.06	215	2.2	0.08
3199420	Soil	15.2	16.5	0.18	1577.8	0.005	<20	0.93	0.005	0.14	<0.1	2.2	0.24	0.06	205	2.4	0.08
3198309	Soil	13.4	25.2	0.14	144.2	0.014	<20	1.02	0.004	0.07	0.1	1.3	0.31	0.05	46	4.7	0.17
3198310	Soil	10.8	3.7	0.01	46.2	0.004	<20	0.30	0.009	0.02	<0.1	0.2	0.15	<0.02	9	0.8	0.04
3198311	Soil	9.3	22.7	0.04	94.7	0.010	<20	0.89	0.002	0.04	0.1	0.9	0.23	0.04	47	4.9	0.18
3198312	Soil	9.8	12.5	0.05	126.3	0.005	<20	0.52	0.008	0.04	0.1	0.4	0.24	0.06	31	3.2	0.12
3198313	Soil	10.6	5.0	<0.01	53.4	0.004	<20	0.34	0.009	0.02	<0.1	0.2	0.10	<0.02	11	1.4	0.09
3198314	Soil	22.1	18.0	0.14	168.7	0.003	<20	2.76	0.005	0.06	0.1	3.1	0.69	0.10	217	6.1	0.12



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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
3198315	Soil	46.32	45.26	34.31	93.8	757	25.4	3.1	70	2.14	30.7	8.3	2.6	1.1	21.9	0.23	5.30	0.21	105	0.02	0.080
3198316	Soil	49.10	48.64	36.00	117.0	673	32.0	4.9	121	2.45	33.9	8.7	2.5	1.9	25.1	0.36	5.10	0.24	108	0.03	0.093
3198317	Soil	17.60	234.36	28.12	1712.9	1262	311.6	91.6	2054	4.99	39.8	22.1	0.6	5.0	30.2	13.83	5.13	0.22	51	0.47	0.250
3198318	Soil	16.01	268.32	38.10	1440.3	2734	318.1	61.8	1369	2.86	36.6	15.6	2.8	1.0	32.9	14.03	5.43	0.20	35	0.79	0.358
3198319	Soil	8.46	31.10	35.25	515.4	841	56.8	10.6	161	3.30	33.7	2.1	1.6	2.0	17.8	0.68	3.05	0.25	47	0.22	0.122
3198320	Soil	3.76	14.60	18.36	60.0	1890	9.2	1.4	40	0.74	12.5	0.9	0.7	<0.1	12.0	0.38	0.76	0.16	27	0.10	0.049
3198321	Soil	5.81	23.24	27.25	91.6	2455	17.7	2.1	51	1.18	15.7	1.2	2.1	<0.1	18.2	0.42	1.18	0.21	36	0.19	0.058
3198322	Soil	17.68	210.76	33.58	751.5	4219	46.0	6.8	358	3.39	60.1	4.3	9.6	1.2	21.8	8.30	7.39	0.16	54	0.71	0.465
3198323	Soil	3.46	8.79	17.34	30.4	546	7.2	0.9	19	0.52	8.8	1.0	1.1	<0.1	8.0	0.12	0.61	0.09	24	0.02	0.077
3198324	Soil	6.77	15.19	31.38	63.6	622	14.6	1.7	37	1.09	16.9	1.3	1.5	<0.1	10.9	0.19	1.17	0.16	36	0.02	0.080
3198325	Soil	5.97	14.08	17.52	74.4	253	14.7	1.8	35	1.16	26.7	0.9	<0.2	0.2	5.2	0.18	1.58	0.19	30	0.01	0.045
3198326	Soil	5.29	43.68	18.61	26.6	540	11.0	1.7	62	1.39	9.8	1.1	1.8	<0.1	12.1	0.08	1.82	0.17	25	0.02	0.090
3198327	Soil	13.68	67.95	31.41	98.3	468	34.7	3.0	79	2.02	23.5	2.6	28.6	<0.1	25.2	0.20	3.29	0.23	56	0.04	0.139
3198328	Soil	2.23	19.02	8.09	9.9	310	4.0	0.9	32	0.66	4.1	0.7	<0.2	<0.1	7.7	0.03	0.70	0.09	11	0.03	0.063
3198329	Soil	5.75	53.44	21.71	47.6	354	14.9	2.7	65	1.41	13.0	1.1	2.8	<0.1	11.7	0.16	2.04	0.20	25	0.02	0.085
3198330	Soil	4.32	45.16	40.35	79.8	1083	20.0	3.0	43	1.72	241.3	0.7	4.0	0.2	28.9	0.15	2.67	0.36	27	0.01	0.061
3198331	Soil	6.32	51.22	25.97	60.6	328	14.9	3.0	193	1.74	22.1	1.0	2.3	0.1	17.2	0.11	2.28	0.26	37	0.04	0.117
3198332	Soil	7.46	44.36	31.31	135.2	398	28.6	4.8	188	1.92	25.3	1.7	5.1	0.1	22.9	0.60	2.55	0.27	40	0.19	0.113
3198333	Soil	0.89	4.65	3.69	11.4	74	2.5	0.5	12	0.25	1.4	0.3	1.4	<0.1	8.5	0.05	0.22	0.07	6	0.09	0.027
3198334	Soil	15.76	44.45	49.67	276.7	578	51.1	9.4	588	2.84	26.7	3.1	7.6	5.5	21.4	1.59	3.02	0.23	50	0.25	0.104
3198335	Soil	7.21	11.84	28.10	114.9	84	21.9	3.2	106	1.62	14.5	1.2	2.0	0.6	12.2	0.48	1.09	0.21	57	0.07	0.073
3198336	Soil	8.82	30.65	49.80	288.6	555	46.3	6.6	283	2.51	20.3	1.9	2.6	2.5	28.0	1.18	2.07	0.24	53	0.47	0.102
3198337	Soil	11.20	32.50	59.32	272.6	392	40.3	6.0	309	2.74	26.6	2.9	5.8	1.8	21.2	0.97	2.21	0.26	55	0.27	0.104
3198338	Soil	42.00	58.20	71.02	615.9	671	142.7	26.5	996	3.53	30.3	6.4	3.4	1.2	25.3	3.84	7.66	0.24	101	0.31	0.204
3198339	Soil	9.83	24.39	48.81	109.5	300	25.6	3.2	110	2.66	29.6	1.4	1.3	1.6	14.2	0.22	2.71	0.26	44	0.07	0.111
3198340	Soil	4.23	9.24	17.55	37.4	423	8.3	1.2	37	0.94	10.8	0.5	1.3	<0.1	6.4	0.08	1.03	0.12	21	0.01	0.042
3198341	Soil	7.02	19.88	36.68	74.6	254	16.8	2.0	54	2.00	21.4	1.0	3.4	0.6	13.3	0.15	1.91	0.21	45	0.02	0.102
3198342	Soil	4.87	9.86	14.13	40.1	101	7.2	1.0	28	0.78	9.6	0.5	0.4	<0.1	6.7	0.05	0.88	0.08	26	<0.01	0.040
3198343	Soil	6.83	24.64	36.47	99.0	235	22.0	2.7	71	2.13	22.6	1.4	3.5	1.5	15.3	0.19	2.26	0.19	43	0.08	0.135
3198344	Soil	7.34	29.56	39.16	112.0	246	24.8	3.1	92	2.40	26.0	1.8	3.7	2.1	17.8	0.24	2.47	0.22	46	0.12	0.169



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		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
3198315	Soil	13.6	13.6	0.14	313.0	0.005	<20	0.65	0.004	0.09	0.3	1.0	1.34	0.07	353	4.8	0.13
3198316	Soil	14.4	15.2	0.17	338.2	0.005	<20	0.75	0.004	0.10	0.2	1.4	1.37	0.07	463	5.0	0.17
3198317	Soil	19.6	16.9	0.16	173.3	0.003	<20	2.59	0.004	0.06	<0.1	3.3	0.61	0.09	225	5.0	0.12
3198318	Soil	11.4	10.0	0.09	125.9	0.005	<20	1.52	0.009	0.06	<0.1	1.6	0.45	0.07	151	5.0	0.19
3198319	Soil	14.2	19.9	0.28	150.1	0.008	<20	1.01	0.005	0.07	<0.1	1.5	0.24	<0.02	111	1.9	0.09
3198320	Soil	7.1	6.2	0.04	126.6	0.005	<20	0.48	0.016	0.05	<0.1	0.5	0.22	<0.02	150	0.6	0.06
3198321	Soil	9.1	8.8	0.04	178.3	0.004	<20	0.62	0.012	0.07	<0.1	0.4	0.24	<0.02	157	0.8	0.07
3198322	Soil	10.5	11.4	0.04	111.2	0.005	<20	0.41	0.005	0.09	0.1	1.3	0.68	<0.02	523	4.2	0.19
3198323	Soil	7.1	8.4	0.03	149.6	0.003	<20	0.41	0.013	0.07	<0.1	0.4	0.21	0.03	98	0.5	0.03
3198324	Soil	9.4	11.8	0.06	208.8	0.003	<20	0.59	0.009	0.09	<0.1	0.4	0.28	0.03	121	1.1	0.06
3198325	Soil	18.5	6.2	0.04	82.9	0.005	<20	0.27	0.008	0.04	<0.1	0.4	0.16	<0.02	16	0.7	0.05
3198326	Soil	8.1	5.7	0.01	41.9	0.005	<20	0.61	0.016	0.05	<0.1	0.2	0.09	0.06	48	1.8	0.07
3198327	Soil	10.3	13.0	0.07	62.8	0.005	<20	0.74	0.011	0.05	0.1	0.4	0.25	0.04	52	2.8	0.10
3198328	Soil	4.0	3.1	0.01	27.5	0.008	<20	0.51	0.021	0.03	<0.1	0.2	0.05	0.04	38	0.9	0.04
3198329	Soil	13.6	5.5	0.01	54.3	0.005	<20	0.51	0.014	0.06	<0.1	0.3	0.06	0.04	31	1.8	0.09
3198330	Soil	19.1	5.5	0.01	73.6	0.004	<20	0.48	0.010	0.04	<0.1	0.4	0.10	0.04	27	1.8	0.15
3198331	Soil	13.7	8.3	0.02	66.2	0.006	<20	0.71	0.011	0.05	<0.1	0.4	0.10	0.05	37	2.3	0.11
3198332	Soil	11.9	10.8	0.11	152.9	0.006	<20	0.70	0.014	0.10	<0.1	0.8	0.21	0.04	57	2.3	0.09
3198333	Soil	1.7	1.9	0.03	36.2	0.006	<20	0.22	0.027	0.04	<0.1	0.2	0.04	<0.02	13	0.3	<0.02
3198334	Soil	24.1	17.4	0.27	242.3	0.023	<20	0.87	0.007	0.10	0.2	2.9	0.27	<0.02	83	1.7	0.09
3198335	Soil	14.7	16.0	0.23	155.1	0.012	<20	0.92	0.008	0.08	0.2	1.4	0.28	0.03	59	1.0	0.06
3198336	Soil	17.9	18.1	0.27	371.6	0.018	<20	1.08	0.008	0.11	0.2	2.6	0.28	0.02	106	1.5	0.07
3198337	Soil	20.6	18.1	0.25	391.1	0.014	<20	0.95	0.005	0.10	0.2	2.4	0.28	<0.02	86	1.4	0.07
3198338	Soil	11.7	17.2	0.16	175.6	0.004	<20	0.51	0.003	0.08	0.2	1.7	0.89	0.07	139	5.3	0.17
3198339	Soil	19.2	15.1	0.18	180.7	0.005	<20	0.69	0.002	0.07	0.1	1.2	0.21	0.03	66	1.8	0.07
3198340	Soil	9.9	5.8	0.06	83.2	0.005	<20	0.36	0.012	0.04	<0.1	0.2	0.13	0.02	32	0.7	0.05
3198341	Soil	15.8	12.0	0.09	240.2	0.003	<20	0.67	0.005	0.09	<0.1	0.9	0.29	0.04	41	1.6	0.09
3198342	Soil	21.1	4.3	0.01	97.8	0.002	<20	0.27	0.009	0.04	<0.1	0.2	0.15	<0.02	14	0.6	0.04
3198343	Soil	21.0	12.9	0.14	244.8	0.004	<20	0.61	0.004	0.10	<0.1	1.3	0.27	0.03	65	1.8	0.08
3198344	Soil	22.4	15.1	0.16	276.1	0.004	<20	0.70	0.003	0.11	0.1	1.5	0.31	0.03	87	1.9	0.10



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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
3198345	Soil	6.23	29.84	24.52	109.5	324	24.0	3.7	112	2.25	27.8	1.9	2.4	2.9	14.8	0.40	3.14	0.15	35	0.14	0.131
3198346	Soil	7.76	30.69	39.31	114.1	378	26.5	3.6	117	2.52	29.8	2.2	2.8	0.3	16.2	0.37	2.60	0.23	50	0.09	0.135
3198347	Soil	5.45	21.79	27.27	81.1	447	17.8	2.6	79	1.96	21.6	1.5	2.4	0.4	14.1	0.20	2.23	0.18	35	0.13	0.129
3198348	Soil	0.96	6.20	9.55	7.6	564	2.1	0.4	8	0.47	3.7	0.6	1.6	<0.1	5.1	0.02	0.47	0.04	10	0.01	0.049
3198349	Soil	7.32	30.36	39.65	101.3	488	23.7	3.1	97	2.46	25.7	2.2	3.5	0.7	20.0	0.20	2.34	0.22	49	0.13	0.162
3198350	Soil	7.67	20.20	38.20	78.5	486	18.3	2.4	60	1.74	19.7	1.3	3.0	0.4	14.9	0.18	1.73	0.20	43	0.03	0.103
3198351	Soil	2.10	10.99	14.74	11.7	1071	3.4	0.5	12	1.21	11.6	1.3	1.8	<0.1	6.8	0.05	0.51	0.09	21	0.02	0.076
3198352	Soil	3.52	14.56	28.40	25.0	904	5.5	0.8	30	1.26	13.1	1.6	3.6	0.1	11.1	0.06	0.74	0.18	31	0.03	0.100
3198353	Soil	1.15	6.93	8.50	22.5	307	5.6	0.7	15	0.51	10.9	0.5	1.0	<0.1	5.5	0.05	0.54	0.06	12	0.03	0.059
3198354	Soil	2.55	14.29	14.60	56.3	284	13.7	1.4	34	1.05	26.8	0.9	1.9	<0.1	9.0	0.13	1.29	0.11	21	0.09	0.102
3198355	Soil	2.57	12.53	11.53	36.3	268	8.5	1.0	24	0.95	14.7	1.0	1.5	<0.1	6.3	0.07	0.75	0.09	19	0.04	0.100
3198356	Soil	5.17	15.46	18.50	58.0	217	13.0	1.5	38	1.40	23.3	1.6	1.5	<0.1	7.9	0.09	1.02	0.17	34	0.03	0.184
3198357	Soil	11.57	28.45	34.31	68.3	494	20.7	2.5	85	2.10	31.8	2.0	2.1	0.2	74.7	0.21	2.79	0.29	97	0.04	0.120
3198358	Soil	11.80	31.95	24.62	115.7	497	32.1	3.5	162	2.30	30.0	2.2	2.1	<0.1	34.3	0.38	2.81	0.26	59	0.06	0.143
3198359	Soil	21.50	32.86	28.53	227.6	433	74.8	7.9	482	2.77	33.2	3.0	2.4	<0.1	25.3	0.52	4.62	0.20	86	0.11	0.215
3198360	Rock Pulp	12.28	155.71	286.75	206.4	107	79.9	48.7	277	1.58	9.6	0.4	40.6	3.1	33.4	0.50	0.16	0.14	24	0.56	0.053
3198361	Soil	2.15	4.01	11.07	5.3	347	2.1	0.5	14	0.35	2.2	0.5	0.9	<0.1	9.0	0.02	0.59	0.06	10	0.02	0.046
3198362	Soil	5.79	8.32	23.59	7.9	538	2.7	0.5	13	0.47	3.8	0.6	2.4	<0.1	14.2	0.03	1.35	0.10	17	0.02	0.038
3198363	Soil	12.90	26.29	46.97	14.2	1514	5.6	1.0	40	1.27	14.3	1.7	4.4	5.6	23.8	0.06	4.73	0.20	35	0.01	0.050
3198364	Soil	13.11	20.38	43.33	15.7	1792	5.5	0.8	21	1.12	13.9	1.3	3.9	0.5	23.1	0.13	3.67	0.21	38	0.01	0.057
3198365	Soil	12.70	22.29	47.51	13.8	2530	5.3	0.7	22	1.17	13.8	1.8	4.5	0.2	23.3	0.10	3.93	0.24	34	0.01	0.077
3198366	Soil	10.80	23.22	41.97	23.8	1359	8.1	1.0	50	1.27	14.4	1.3	4.4	0.7	23.4	0.07	4.09	0.19	32	0.01	0.059
3198367	Soil	12.67	18.61	48.37	16.4	968	6.2	0.7	16	1.09	13.8	1.2	4.0	0.6	25.3	0.04	3.80	0.21	34	0.02	0.050



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Project: MacMillan Pass

Report Date: July 21, 2018

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CERTIFICATE OF ANALYSIS

WHI18000176.1

	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
3198345	Soil	30.2	12.0	0.16	163.0	0.004	<20	0.53	0.002	0.07	<0.1	1.3	0.18	<0.02	83	1.8	0.07
3198346	Soil	18.3	19.0	0.17	288.1	0.004	<20	0.79	0.001	0.11	<0.1	0.8	0.34	0.03	95	1.7	0.10
3198347	Soil	16.3	13.0	0.15	193.7	0.004	<20	0.62	0.005	0.08	<0.1	0.8	0.22	<0.02	82	1.5	0.08
3198348	Soil	2.0	3.4	0.02	74.5	0.003	<20	0.28	0.020	0.04	<0.1	0.3	0.07	<0.02	51	0.4	<0.02
3198349	Soil	23.0	18.1	0.18	309.6	0.004	<20	0.76	0.002	0.12	<0.1	1.3	0.39	0.02	149	1.9	0.10
3198350	Soil	17.6	14.1	0.13	256.2	0.003	<20	0.62	0.003	0.11	<0.1	0.8	0.33	0.03	128	1.4	0.09
3198351	Soil	3.6	6.1	0.03	121.8	0.002	<20	0.51	0.020	0.05	<0.1	0.3	0.13	0.03	100	0.9	0.03
3198352	Soil	7.4	10.7	0.06	223.5	0.002	<20	0.72	0.016	0.09	<0.1	0.4	0.30	0.03	192	1.2	0.04
3198353	Soil	4.4	4.8	0.03	69.7	0.002	<20	0.31	0.020	0.05	<0.1	0.2	0.11	<0.02	45	0.2	<0.02
3198354	Soil	9.9	8.6	0.05	106.2	0.003	<20	0.43	0.012	0.06	<0.1	0.4	0.18	<0.02	42	0.6	0.04
3198355	Soil	6.2	8.5	0.05	91.6	0.002	<20	0.46	0.013	0.05	<0.1	0.3	0.16	<0.02	62	0.6	0.03
3198356	Soil	12.3	14.0	0.07	161.5	<0.001	<20	0.67	0.003	0.08	<0.1	0.3	0.28	<0.02	66	0.7	0.06
3198357	Soil	9.9	23.0	0.04	123.9	0.013	<20	0.48	0.005	0.07	0.2	2.8	0.24	0.08	55	2.6	0.12
3198358	Soil	7.3	17.6	0.10	93.2	0.002	<20	0.57	0.008	0.06	0.1	0.3	0.28	0.08	49	2.7	0.11
3198359	Soil	7.8	19.7	0.14	85.3	0.003	<20	0.69	0.009	0.05	0.1	0.3	0.40	0.06	49	3.1	0.12
3198360	Rock Pulp	26.4	32.2	0.48	64.9	0.071	<20	0.80	0.086	0.12	<0.1	3.0	0.09	0.04	7	<0.1	<0.02
3198361	Soil	2.1	3.4	0.01	45.6	0.003	<20	0.15	0.019	0.03	<0.1	0.1	0.05	0.03	45	0.8	0.03
3198362	Soil	7.0	5.5	0.01	99.5	0.004	<20	0.11	0.008	0.04	<0.1	0.4	0.09	0.04	62	2.0	0.06
3198363	Soil	12.0	11.6	0.02	200.2	0.005	<20	0.18	0.002	0.07	<0.1	2.1	0.19	0.09	61	6.3	0.12
3198364	Soil	9.1	10.1	0.01	181.3	0.003	<20	0.20	0.002	0.06	<0.1	1.0	0.16	0.06	71	5.2	0.15
3198365	Soil	8.9	12.2	<0.01	189.3	0.002	<20	0.17	0.001	0.07	<0.1	0.9	0.17	0.09	82	5.8	0.16
3198366	Soil	10.6	10.3	0.01	150.5	0.003	<20	0.13	0.002	0.06	<0.1	1.0	0.15	0.08	68	5.4	0.13
3198367	Soil	8.3	9.9	<0.01	188.0	0.003	<20	0.14	0.003	0.06	<0.1	0.8	0.16	0.08	74	5.2	0.14



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QUALITY CONTROL REPORT

WHI18000176.1

	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																					
3199357	Soil	6.70	25.42	26.25	119.9	325	25.7	4.3	103	3.17	38.9	1.4	1.2	0.9	15.5	0.49	2.12	0.32	42	0.03	0.091
REP 3199357	QC	6.61	24.84	25.44	117.3	319	23.5	4.3	100	3.12	37.5	1.3	0.6	0.8	15.4	0.52	2.14	0.33	42	0.03	0.091
3199393	Soil	3.83	18.49	29.39	68.1	2903	15.2	1.0	27	0.74	6.6	1.2	2.1	0.2	21.5	0.53	0.79	0.10	27	0.26	0.071
REP 3199393	QC	3.77	17.95	28.63	66.1	2830	14.6	1.0	27	0.74	6.4	1.1	2.0	0.2	21.0	0.51	0.80	0.10	27	0.26	0.070
3198317	Soil	17.60	234.36	28.12	1712.9	1262	311.6	91.6	2054	4.99	39.8	22.1	0.6	5.0	30.2	13.83	5.13	0.22	51	0.47	0.250
REP 3198317	QC	17.99	239.97	28.22	1741.4	1270	313.6	94.3	2103	5.08	40.0	21.1	1.7	4.6	30.7	13.67	5.14	0.22	51	0.48	0.240
3198353	Soil	1.15	6.93	8.50	22.5	307	5.6	0.7	15	0.51	10.9	0.5	1.0	<0.1	5.5	0.05	0.54	0.06	12	0.03	0.059
REP 3198353	QC	1.15	6.86	8.37	22.6	303	5.2	0.6	15	0.51	10.4	0.5	1.1	<0.1	5.3	0.05	0.54	0.05	11	0.03	0.059
Reference Materials																					
STD DS11	Standard	15.30	149.65	145.95	332.8	1657	82.9	13.9	1056	3.09	43.9	2.6	52.6	7.6	64.3	2.29	6.49	12.19	47	1.05	0.074
STD DS11	Standard	14.67	150.17	142.38	370.3	1726	81.0	14.0	1091	3.13	45.5	2.5	67.9	7.4	65.8	2.32	6.98	12.73	50	1.08	0.072
STD DS11	Standard	14.08	147.66	139.24	350.0	1746	80.6	13.5	1030	3.25	45.8	2.5	61.2	7.5	68.8	2.42	6.89	12.97	49	1.08	0.072
STD DS11	Standard	14.17	143.89	133.32	338.8	1665	75.5	13.0	1035	3.06	44.3	2.5	71.0	7.4	66.6	2.27	6.70	11.73	48	1.05	0.070
STD OREAS45EA	Standard	1.69	695.67	14.98	33.0	246	389.1	53.7	414	23.71	11.8	1.8	54.6	10.9	3.7	0.03	0.27	0.26	325	0.03	0.030
STD OREAS45EA	Standard	1.72	711.47	13.69	29.5	237	408.9	50.1	400	20.81	11.3	1.7	60.0	9.9	3.5	0.02	0.37	0.24	329	0.03	0.029
STD OREAS45EA	Standard	1.77	686.00	15.09	34.4	266	419.2	56.9	446	26.36	12.7	1.9	58.4	10.9	4.0	0.02	0.28	0.28	314	0.03	0.032
STD OREAS45EA	Standard	1.63	691.15	13.86	30.3	249	393.2	49.5	396	21.08	10.7	1.7	51.7	9.9	3.6	<0.01	0.30	0.26	314	0.03	0.029
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	<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



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Report Date:

July 21, 2018

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QUALITY CONTROL REPORT

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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
		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
Pulp Duplicates																		
3199357	Soil	20.6	20.3	0.24	242.7	0.010	<20	1.18	0.005	0.11	0.2	1.3	0.24	0.03	19	1.5	0.10	4.2
REP 3199357	QC	20.0	17.4	0.23	239.0	0.010	<20	1.13	0.004	0.11	0.2	1.2	0.24	0.03	25	1.3	0.09	4.0
3199393	Soil	4.2	9.6	0.07	655.9	0.004	<20	0.58	0.023	0.09	<0.1	0.8	0.17	0.04	135	1.6	0.04	2.4
REP 3199393	QC	4.2	9.8	0.06	649.2	0.004	<20	0.58	0.022	0.09	<0.1	0.7	0.18	0.04	126	1.8	0.04	2.2
3198317	Soil	19.6	16.9	0.16	173.3	0.003	<20	2.59	0.004	0.06	<0.1	3.3	0.61	0.09	225	5.0	0.12	1.4
REP 3198317	QC	19.3	17.2	0.15	173.0	0.003	<20	2.63	0.005	0.06	<0.1	3.2	0.59	0.09	209	5.2	0.11	1.3
3198353	Soil	4.4	4.8	0.03	69.7	0.002	<20	0.31	0.020	0.05	<0.1	0.2	0.11	<0.02	45	0.2	<0.02	1.4
REP 3198353	QC	4.3	4.5	0.03	68.0	0.003	<20	0.30	0.018	0.04	<0.1	0.2	0.12	<0.02	38	0.3	<0.02	1.4
Reference Materials																		
STD DS11	Standard	17.8	59.6	0.85	439.6	0.088	<20	1.15	0.072	0.40	2.7	3.1	5.15	0.27	238	2.3	4.63	5.0
STD DS11	Standard	18.5	60.7	0.88	456.1	0.090	<20	1.16	0.073	0.41	3.2	3.4	5.35	0.28	288	2.5	5.13	5.2
STD DS11	Standard	17.6	58.2	0.84	436.5	0.089	<20	1.14	0.072	0.39	2.6	3.5	5.26	0.28	257	2.3	4.98	5.1
STD DS11	Standard	17.5	56.8	0.84	422.4	0.086	<20	1.13	0.073	0.40	2.6	3.2	5.19	0.27	306	2.3	4.78	4.9
STD OREAS45EA	Standard	7.1	944.3	0.10	151.5	0.097	<20	3.25	0.018	0.05	<0.1	81.0	0.06	0.02	13	1.1	0.09	13.6
STD OREAS45EA	Standard	6.6	867.4	0.09	139.7	0.090	<20	3.18	0.020	0.05	<0.1	78.0	0.06	0.03	13	1.3	0.11	12.6
STD OREAS45EA	Standard	7.2	937.4	0.11	161.4	0.098	<20	3.46	0.021	0.06	<0.1	86.9	0.08	0.04	11	1.5	0.09	13.9
STD OREAS45EA	Standard	6.7	858.4	0.10	142.5	0.090	<20	3.22	0.020	0.05	<0.1	77.8	0.07	0.02	15	1.1	0.08	12.5
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