



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: Dennis Arne
Receiving Lab: Canada-Whitehorse
Received: July 04, 2018
Report Date: August 09, 2018
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CERTIFICATE OF ANALYSIS

WHI18000262.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-006
P.O. Number
Number of Samples: 130

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: Jack Milton
Gilles Dessureau
Jill Moore
Maeve Murphy

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	127	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
AQ250	129	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	129	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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	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
3198368	Soil	5.79	20.70	34.89	106.0	822	64.2	2.7	103	1.37	12.6	1.5	4.3	1.2	28.3	0.37	2.07	0.19	33	0.22	0.073
3198369	Soil	5.26	25.93	29.10	188.8	450	69.2	4.6	150	1.93	14.5	1.6	3.1	1.5	28.3	0.39	1.83	0.19	41	0.29	0.096
3198370	Soil	28.90	169.45	41.19	521.1	1500	180.7	25.7	663	2.80	23.5	11.1	2.5	3.2	34.9	2.50	7.78	0.25	69	0.37	0.145
3198371	Soil	15.63	61.87	129.98	237.1	642	50.6	4.9	329	3.12	42.5	2.5	3.0	4.5	17.2	0.87	5.19	0.22	46	0.07	0.085
3198372	Soil	2.21	10.60	36.84	17.0	500	5.0	0.6	20	0.53	7.1	1.1	2.4	<0.1	6.7	0.10	0.66	0.08	15	0.01	0.046
3198373	Soil	11.69	64.39	117.05	142.2	1645	37.9	4.6	313	2.94	36.8	3.6	4.8	0.8	37.7	0.50	3.87	0.30	70	0.37	0.101
3198374	Soil	8.72	37.85	66.03	67.4	505	19.8	2.5	140	1.97	29.2	2.0	11.1	1.4	15.9	0.21	2.79	0.22	43	0.10	0.066
3198375	Soil	8.47	33.06	52.81	66.9	694	17.8	2.4	136	2.04	23.8	1.8	4.4	1.0	15.2	0.16	2.71	0.20	43	0.06	0.069
3198376	Soil	10.82	51.89	114.22	102.7	2353	28.6	3.4	99	2.95	29.7	5.7	6.2	1.2	42.8	0.48	3.00	0.35	62	0.20	0.175
3198377	Soil	6.24	27.67	48.98	54.6	1702	14.3	2.0	60	1.66	15.7	3.3	3.2	0.5	19.1	0.24	2.00	0.17	32	0.08	0.132
3198378	Soil	6.53	22.15	51.71	63.7	687	16.2	2.4	98	1.87	20.1	1.8	3.6	1.0	19.5	0.12	2.43	0.21	40	0.06	0.075
3198379	Soil	7.96	25.50	51.01	84.4	514	19.4	2.7	97	2.21	22.1	2.2	3.0	1.9	25.9	0.29	2.69	0.24	44	0.13	0.086
3198380	Soil	7.71	24.78	48.84	81.8	463	19.1	2.6	97	2.20	21.6	2.2	3.1	2.1	24.7	0.21	2.78	0.23	42	0.13	0.084
3198381	Soil	6.29	26.11	54.84	60.1	1319	17.4	2.3	59	1.56	15.6	3.6	2.8	0.4	25.0	0.45	1.75	0.22	40	0.10	0.132
3198382	Soil	4.64	16.43	36.12	50.7	966	10.6	2.4	119	1.68	12.1	2.2	3.5	0.5	16.6	0.47	1.70	0.16	30	0.05	0.094
3198383	Soil	7.55	30.63	57.87	104.5	787	21.6	4.5	195	2.35	20.6	3.1	5.4	1.4	28.2	0.47	2.33	0.26	49	0.12	0.126
3198384	Soil	3.50	13.27	32.00	52.6	852	10.7	1.6	33	1.04	10.1	2.3	2.8	0.6	16.6	0.31	1.10	0.16	29	0.06	0.101
3198385	Soil	10.28	43.49	62.03	164.6	1045	36.1	13.0	849	3.01	25.7	7.7	5.3	1.1	41.0	0.79	3.11	0.31	62	0.38	0.161
3198386	Soil	5.14	30.39	33.81	121.6	721	30.3	7.2	469	1.89	15.7	7.4	4.2	1.0	41.1	1.70	2.24	0.18	34	0.45	0.136
3198387	Soil	4.22	24.78	28.54	80.1	1003	20.6	2.6	50	1.61	31.3	4.4	3.8	0.6	21.4	0.63	1.56	0.22	35	0.18	0.129
3198388	Soil	1.75	9.61	10.23	28.4	757	7.6	1.1	22	0.58	6.3	1.7	0.4	<0.1	10.1	0.33	0.63	0.11	14	0.06	0.088
3198389	Soil	8.40	23.84	46.25	112.7	255	25.0	3.8	104	4.12	57.4	0.9	0.4	0.9	13.7	0.23	3.80	0.31	55	0.07	0.269
3198390	Soil	5.26	12.08	28.00	59.7	250	11.8	1.7	36	1.24	24.3	0.5	2.5	0.1	8.2	0.10	1.71	0.21	33	<0.01	0.087
3198391	Soil	27.70	65.99	75.31	445.0	961	114.8	11.4	264	3.68	35.3	3.2	4.8	3.1	21.8	1.56	7.08	0.27	92	0.16	0.174
3198392	Soil	21.70	85.78	71.60	454.1	1457	110.2	29.5	504	3.56	31.1	4.8	6.3	3.4	22.9	3.22	6.67	0.26	62	0.22	0.174
3198393	Soil	17.79	27.29	114.82	239.6	738	56.3	6.5	206	4.01	39.7	1.4	1.4	1.1	11.2	0.70	4.96	0.26	67	0.05	0.216
3198394	Soil	0.81	8.88	3.95	5.8	359	1.9	0.5	11	0.40	2.2	0.9	0.7	<0.1	6.1	0.07	0.30	0.07	8	0.02	0.054
3198395	Soil	1.76	13.41	8.48	14.4	833	3.7	1.0	22	0.73	4.6	1.6	1.8	<0.1	10.1	0.10	0.67	0.12	15	0.03	0.088
3198396	Soil	6.83	27.32	24.25	89.3	589	23.3	5.1	111	3.56	24.6	1.8	5.4	2.4	25.9	0.16	2.34	0.26	35	0.06	0.137
3198397	Soil	7.11	26.04	22.57	93.9	483	23.2	5.3	113	3.48	25.0	1.8	2.5	3.4	25.1	0.12	2.67	0.23	36	0.06	0.142



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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
3198368	Soil	12.8	13.7	0.16	155.4	0.011	<20	0.63	0.007	0.05	0.1	1.4	0.17	0.03	83	2.0	0.07	2.5
3198369	Soil	14.6	17.5	0.32	191.9	0.021	<20	1.07	0.008	0.07	0.1	2.2	0.20	0.02	67	1.0	0.05	3.3
3198370	Soil	15.6	13.2	0.11	192.1	0.003	<20	0.79	0.002	0.07	<0.1	2.5	0.64	0.11	280	6.2	0.17	1.2
3198371	Soil	22.2	11.4	0.04	1671.1	0.005	<20	0.46	0.002	0.10	<0.1	2.2	0.25	0.06	162	3.7	0.14	1.4
3198372	Soil	3.4	4.0	0.01	238.6	0.003	<20	0.34	0.018	0.06	<0.1	0.4	0.12	<0.02	85	0.5	<0.02	1.5
3198373	Soil	14.1	18.8	0.10	1596.3	0.004	<20	1.15	0.006	0.25	<0.1	2.0	0.49	0.08	398	3.5	0.17	3.3
3198374	Soil	19.3	11.6	0.05	1264.2	0.004	<20	0.59	0.002	0.10	<0.1	1.6	0.25	0.03	135	2.5	0.10	2.1
3198375	Soil	17.3	11.9	0.07	1050.6	0.005	<20	0.66	0.003	0.10	<0.1	1.4	0.29	0.03	135	2.0	0.07	2.3
3198376	Soil	11.2	22.8	0.12	1450.6	0.005	<20	1.44	0.006	0.26	<0.1	2.5	0.55	0.10	476	4.2	0.09	3.9
3198377	Soil	10.3	12.0	0.10	672.6	0.003	<20	0.73	0.004	0.11	<0.1	0.9	0.24	0.06	234	1.8	0.09	2.3
3198378	Soil	13.7	14.7	0.13	532.6	0.005	<20	0.80	0.012	0.13	<0.1	1.5	0.30	0.03	155	2.0	0.08	2.9
3198379	Soil	21.2	16.8	0.20	740.2	0.004	<20	0.88	0.004	0.15	<0.1	1.6	0.30	0.04	131	2.5	0.10	2.9
3198380	Soil	21.1	16.3	0.19	727.1	0.004	<20	0.85	0.003	0.14	<0.1	1.7	0.28	0.03	126	1.9	0.07	2.6
3198381	Soil	9.2	15.9	0.11	897.5	0.003	<20	0.93	0.011	0.17	<0.1	0.8	0.35	0.07	243	2.7	0.06	3.1
3198382	Soil	7.7	11.4	0.08	366.4	0.005	<20	0.73	0.018	0.10	<0.1	1.0	0.22	0.03	167	1.7	0.06	2.5
3198383	Soil	18.6	18.6	0.17	793.6	0.004	<20	1.15	0.006	0.15	<0.1	1.9	0.33	0.02	207	2.5	0.06	3.5
3198384	Soil	10.2	12.3	0.10	427.1	0.003	<20	0.69	0.009	0.11	<0.1	1.3	0.27	0.04	180	0.7	0.05	2.9
3198385	Soil	12.9	22.2	0.22	1075.5	0.004	<20	1.35	0.006	0.19	<0.1	2.2	0.46	0.07	292	3.7	0.13	4.0
3198386	Soil	10.2	13.4	0.12	880.4	0.003	<20	0.88	0.007	0.10	<0.1	1.6	0.26	0.06	170	3.2	0.06	2.4
3198387	Soil	9.3	16.3	0.11	451.3	0.003	<20	0.85	0.006	0.12	0.1	1.4	0.28	0.06	216	2.0	0.06	2.5
3198388	Soil	4.1	6.7	0.04	181.9	0.003	<20	0.34	0.015	0.06	0.1	0.7	0.12	0.05	98	0.9	<0.02	1.4
3198389	Soil	14.9	21.1	0.16	137.0	0.006	<20	1.07	0.003	0.07	0.2	0.9	0.23	0.04	40	2.9	0.07	3.5
3198390	Soil	16.2	7.2	0.03	107.3	0.004	<20	0.58	0.005	0.06	<0.1	0.3	0.22	0.02	23	1.3	0.10	4.4
3198391	Soil	19.9	19.9	0.20	136.8	0.006	<20	0.81	0.002	0.08	0.1	2.3	0.45	0.02	167	3.4	0.20	2.5
3198392	Soil	24.1	21.1	0.29	194.5	0.006	<20	0.97	0.002	0.07	<0.1	2.8	0.36	<0.02	345	2.4	0.17	2.2
3198393	Soil	13.6	15.4	0.13	83.2	0.005	<20	0.65	0.004	0.06	<0.1	0.9	0.24	0.03	43	2.3	0.14	2.9
3198394	Soil	2.6	3.3	0.02	29.1	0.005	<20	0.50	0.024	0.02	<0.1	0.2	0.07	0.03	37	0.8	<0.02	1.9
3198395	Soil	4.6	6.4	0.04	57.7	0.005	<20	0.59	0.019	0.03	<0.1	0.3	0.12	0.05	72	1.5	0.02	2.5
3198396	Soil	24.5	21.7	0.28	155.4	0.006	<20	1.01	0.004	0.09	<0.1	1.6	0.20	0.06	109	3.4	0.13	3.0
3198397	Soil	24.5	20.9	0.25	142.1	0.006	<20	0.87	0.003	0.07	<0.1	1.7	0.19	0.05	118	4.5	0.14	2.6



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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
3198398	Soil	8.46	28.08	27.89	78.2	675	21.1	5.2	132	3.78	28.7	2.1	4.6	1.9	18.6	0.10	3.40	0.35	59	0.04	0.125
3198399	Soil	13.43	13.45	128.04	23.9	1421	12.9	1.9	50	1.78	18.1	1.0	10.5	1.6	27.9	0.06	12.45	0.43	31	<0.01	0.069
3198400	Rock Pulp	0.67	24.55	1.99	20.4	27	17.4	6.0	251	1.40	0.8	0.4	1.5	2.7	28.0	0.03	0.05	0.06	21	0.60	0.055
3198401	Soil	4.51	12.83	16.88	45.4	464	12.0	2.9	60	1.86	12.5	1.0	1.7	<0.1	11.9	0.07	1.22	0.18	25	0.03	0.101
3198402	Soil	6.22	25.22	22.60	77.7	705	22.6	5.9	123	3.22	21.8	1.9	3.1	0.6	19.0	0.10	2.27	0.26	37	0.05	0.138
3198403	Soil	18.76	8.26	31.81	13.1	2007	3.6	0.8	17	1.06	9.8	0.9	1.8	0.1	20.4	0.04	9.50	0.16	33	0.01	0.052
3198404	Soil	15.73	7.15	36.71	16.0	1438	3.9	0.7	18	1.05	10.5	1.0	1.8	0.2	28.5	0.04	6.73	0.17	32	0.01	0.056
3198405	Soil	6.36	10.93	13.67	45.1	850	9.8	1.7	45	1.68	17.1	1.2	2.9	<0.1	8.7	0.14	2.76	0.17	31	0.01	0.097
3198406	Soil	10.26	15.40	17.90	98.8	218	20.8	2.6	46	2.43	41.4	1.1	2.0	<0.1	6.9	0.16	2.69	0.28	65	<0.01	0.094
3198407	Soil	6.49	8.41	8.95	41.1	167	7.8	1.4	19	0.83	15.8	0.6	1.3	<0.1	5.3	0.06	1.06	0.16	33	<0.01	0.056
3198408	Soil	14.30	30.42	33.10	168.2	718	38.8	6.5	140	5.51	93.7	1.9	6.0	0.8	11.0	0.43	6.32	0.39	53	0.02	0.145
3198409	Soil	9.80	17.79	21.41	65.4	983	13.8	2.4	63	2.44	30.7	1.5	4.3	0.8	18.7	0.09	4.51	0.22	34	0.01	0.087
3198410	Soil	11.72	43.04	26.56	139.9	546	31.5	7.5	241	4.95	96.6	1.9	3.4	2.0	11.4	0.46	4.95	0.36	55	0.01	0.163
3198411	Soil	4.71	7.05	13.61	33.8	256	6.4	1.2	22	0.86	14.9	0.5	2.2	<0.1	6.5	0.08	1.24	0.14	23	<0.01	0.061
3198412	Soil	8.09	27.61	23.66	128.0	236	29.1	5.0	124	3.24	45.5	1.3	2.6	0.9	10.7	0.22	2.90	0.27	40	<0.01	0.110
3198413	Soil	12.14	17.74	30.53	49.2	676	10.0	1.6	29	1.72	26.4	1.6	7.1	0.9	16.8	0.11	4.65	0.28	24	<0.01	0.078
3198414	Soil	7.88	21.03	23.40	67.3	859	17.6	3.0	70	2.12	21.6	1.5	6.3	0.6	13.4	0.13	2.64	0.21	29	0.01	0.073
3198415	Soil	6.58	28.16	19.75	97.8	778	21.4	3.8	77	2.44	24.9	1.4	2.8	2.3	10.9	0.23	2.34	0.18	29	0.01	0.072
3198416	Soil	6.40	22.64	23.31	96.4	224	24.6	3.6	86	2.46	28.9	1.0	3.2	1.6	12.0	0.24	2.35	0.22	31	<0.01	0.066
3198417	Soil	17.77	149.68	37.94	1152.4	1350	202.5	47.3	1144	4.73	39.9	10.3	1.7	4.1	45.1	9.86	6.48	0.27	48	1.47	0.290
3198418	Soil	0.34	5.49	7.22	8.6	477	4.2	0.6	7	0.36	1.4	0.3	1.8	<0.1	6.0	0.09	0.22	0.05	4	0.03	0.054
3198419	Soil	5.27	99.92	16.54	495.0	248	239.5	29.4	233	3.42	470.1	1.7	1.5	0.3	4.4	1.01	10.05	0.12	32	0.11	0.201
3198420	Soil	5.55	109.07	17.89	499.5	239	260.6	29.9	255	3.83	609.1	1.8	2.4	0.4	4.4	0.99	11.35	0.12	34	0.11	0.215
3198421	Soil	1.89	17.90	7.12	72.4	227	46.2	5.6	15	0.71	92.2	0.5	0.5	<0.1	2.0	0.14	1.74	0.04	16	0.01	0.068
3198422	Soil	1.20	6.59	4.76	8.1	43	2.2	0.6	18	0.35	4.3	0.3	0.7	<0.1	5.6	0.06	0.28	0.04	5	0.02	0.032
3198423	Soil	5.09	11.97	14.10	21.9	78	5.0	1.7	46	0.79	16.4	0.5	0.7	<0.1	7.5	0.08	1.00	0.10	14	0.02	0.046
3198424	Soil	2.44	38.02	24.32	156.9	118	59.7	27.2	479	4.31	22.4	1.2	13.4	8.9	16.9	0.14	0.74	0.28	28	0.09	0.085
3198425	Soil	11.60	41.62	49.30	128.2	169	47.8	15.4	238	4.39	43.2	1.7	3.3	3.5	21.9	0.10	2.53	0.36	31	0.03	0.095
3198426	Soil	2.01	16.78	12.72	46.4	151	17.2	4.4	87	1.66	10.4	0.7	1.4	0.3	8.8	0.06	0.52	0.17	17	0.05	0.078
3198427	Soil	2.53	18.11	14.63	52.5	151	19.3	5.3	106	2.02	13.5	0.7	2.3	0.2	9.2	0.06	0.64	0.20	25	0.04	0.082



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Project: MacMillan Pass

Report Date: August 09, 2018

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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
3198398	Soil	23.1	28.3	0.29	204.0	0.016	<20	1.33	0.003	0.10	0.1	1.9	0.29	0.05	95	5.1	0.11	5.1
3198399	Soil	20.0	20.3	0.08	347.7	0.006	<20	0.46	0.003	0.15	<0.1	0.8	0.68	0.21	101	13.3	0.12	2.2
3198400	Rock Pulp	15.7	27.4	0.46	55.0	0.070	<20	0.77	0.076	0.11	<0.1	2.6	0.06	<0.02	7	<0.1	<0.02	2.4
3198401	Soil	12.5	15.3	0.16	93.0	0.003	<20	0.67	0.006	0.07	<0.1	0.4	0.15	0.05	84	1.7	0.07	2.8
3198402	Soil	17.7	23.1	0.26	160.8	0.006	<20	1.18	0.006	0.08	<0.1	1.1	0.21	0.05	95	3.4	0.09	3.8
3198403	Soil	5.7	5.7	0.02	361.4	0.008	<20	0.30	0.015	0.08	0.1	0.3	0.34	0.11	117	9.4	0.08	1.8
3198404	Soil	6.3	6.0	0.02	445.3	0.007	<20	0.28	0.013	0.06	0.1	0.4	0.28	0.09	103	7.8	0.06	2.1
3198405	Soil	7.4	10.1	0.09	118.1	0.005	<20	0.52	0.012	0.06	<0.1	0.4	0.16	0.06	136	2.7	0.06	2.1
3198406	Soil	11.4	14.0	0.06	92.8	0.003	<20	0.69	0.003	0.06	0.1	0.3	0.26	0.04	68	2.3	0.07	4.7
3198407	Soil	16.6	6.6	0.02	61.1	0.003	<20	0.41	0.005	0.05	<0.1	0.4	0.19	<0.02	24	0.5	0.06	3.5
3198408	Soil	13.3	21.5	0.20	186.4	0.005	<20	1.03	0.003	0.09	<0.1	0.9	0.34	0.06	140	8.1	0.23	3.1
3198409	Soil	15.8	14.7	0.21	264.0	0.004	<20	0.83	0.005	0.12	<0.1	0.8	0.21	0.10	180	5.1	0.11	2.5
3198410	Soil	13.5	22.1	0.19	150.8	0.005	<20	1.13	0.003	0.10	<0.1	1.2	0.25	0.06	129	6.4	0.16	3.1
3198411	Soil	12.7	6.3	0.03	79.1	0.003	<20	0.35	0.007	0.05	<0.1	0.4	0.15	0.02	35	0.9	0.04	2.3
3198412	Soil	13.9	19.2	0.22	118.8	0.004	<20	0.89	0.005	0.10	<0.1	0.9	0.22	0.03	56	2.8	0.11	3.1
3198413	Soil	9.1	9.9	0.06	126.7	0.003	<20	0.40	0.004	0.06	0.1	0.8	0.21	0.06	51	5.0	0.15	2.1
3198414	Soil	12.3	16.2	0.20	112.9	0.004	<20	0.78	0.008	0.08	<0.1	0.7	0.24	0.04	101	1.8	0.10	3.0
3198415	Soil	16.2	17.4	0.24	114.6	0.003	<20	0.89	0.004	0.09	<0.1	1.2	0.17	0.04	69	1.7	0.06	2.5
3198416	Soil	19.6	22.2	0.26	115.1	0.002	<20	0.88	0.003	0.10	<0.1	1.2	0.13	0.04	27	1.5	0.09	2.4
3198417	Soil	14.4	15.1	0.55	197.3	0.003	<20	0.91	0.004	0.07	0.1	3.1	0.52	0.05	203	3.3	0.11	1.0
3198418	Soil	0.8	1.7	0.01	22.5	0.002	<20	0.16	0.027	0.02	<0.1	0.1	0.03	<0.02	26	<0.1	<0.02	0.5
3198419	Soil	14.1	21.9	0.02	47.4	0.002	<20	0.34	0.004	0.06	0.2	1.2	0.20	<0.02	60	1.5	0.10	1.1
3198420	Soil	15.2	22.4	0.02	48.0	0.002	<20	0.34	0.003	0.06	0.2	1.4	0.22	<0.02	50	1.9	0.09	0.8
3198421	Soil	5.4	10.6	0.01	27.4	0.001	<20	0.26	0.011	0.05	<0.1	0.3	0.10	<0.02	22	0.4	0.03	1.2
3198422	Soil	1.8	2.7	0.01	21.2	0.007	<20	0.46	0.025	0.02	<0.1	0.2	0.04	0.02	17	0.1	<0.02	1.4
3198423	Soil	4.8	5.5	0.02	39.3	0.007	<20	0.43	0.022	0.03	<0.1	0.3	0.09	0.03	25	0.4	0.04	1.8
3198424	Soil	34.3	38.2	0.85	48.1	0.006	<20	1.97	0.003	0.08	<0.1	2.4	0.09	<0.02	76	0.5	0.07	4.6
3198425	Soil	24.2	31.7	0.52	101.0	0.004	<20	1.67	0.004	0.10	<0.1	2.0	0.36	0.07	191	1.8	0.09	4.2
3198426	Soil	12.5	14.5	0.23	38.1	0.007	<20	1.17	0.014	0.04	<0.1	0.5	0.09	0.03	37	0.4	0.03	3.3
3198427	Soil	14.9	15.9	0.22	48.3	0.006	<20	0.98	0.010	0.04	<0.1	0.5	0.11	0.03	29	0.3	0.06	3.8



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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
3198428	Soil	6.39	25.52	38.01	69.2	733	12.6	2.7	113	2.41	35.6	1.1	0.9	0.2	21.8	0.21	3.18	0.37	35	0.04	0.149
3198429	Soil	11.31	48.35	73.27	135.4	1458	34.0	9.8	220	5.18	71.9	2.5	7.7	5.5	52.1	0.20	6.85	0.45	72	0.05	0.199
3198430	Soil	28.45	40.47	50.36	161.1	788	51.5	9.4	221	4.33	154.3	3.9	4.2	1.4	22.9	0.44	6.42	0.28	59	0.09	0.181
3198431	Soil	8.12	34.54	32.03	137.7	682	47.0	14.3	273	4.17	49.6	1.9	1.9	7.5	22.4	0.15	3.36	0.28	30	0.06	0.121
3198432	Soil	7.29	31.48	26.50	128.0	591	44.4	12.7	247	3.88	44.1	1.8	2.1	7.3	20.8	0.16	3.36	0.23	27	0.07	0.118
3199421	Soil	4.42	21.30	34.05	74.4	377	17.3	3.7	129	1.92	15.7	3.9	2.2	3.3	19.4	0.18	1.84	0.15	30	0.20	0.074
3199422	Soil	3.51	21.64	45.92	109.8	571	18.8	3.9	234	1.69	13.8	10.0	3.2	1.0	41.4	0.73	1.59	0.17	35	0.67	0.101
3199423	Soil	3.78	22.97	36.92	119.1	492	26.1	6.2	543	1.67	14.6	9.3	2.0	1.0	52.7	1.01	1.69	0.20	30	0.96	0.118
3199424	Soil	5.45	19.03	40.86	145.9	628	26.4	6.9	264	2.74	25.4	4.0	1.7	2.5	31.7	0.34	1.40	0.26	42	0.37	0.107
3199425	Soil	6.68	34.62	33.63	164.1	411	34.1	6.4	221	2.56	19.4	5.8	2.5	4.2	24.5	0.49	1.92	0.23	41	0.23	0.116
3199426	Soil	3.39	22.77	34.89	169.5	668	32.6	7.7	689	2.82	20.8	5.2	3.0	2.6	38.7	0.75	1.28	0.18	33	0.53	0.110
3199427	Soil	2.28	24.22	35.87	113.1	632	28.3	5.1	188	2.00	15.5	6.9	2.6	1.5	30.4	0.90	1.23	0.18	35	0.49	0.093
3199428	Soil	5.40	34.32	22.34	120.7	374	25.7	4.9	117	1.71	17.2	2.3	3.1	3.6	22.1	0.56	2.39	0.14	34	0.25	0.141
3199429	Soil	1.20	27.84	14.05	55.5	335	14.9	1.4	30	0.62	3.9	8.3	3.4	0.4	14.1	0.68	1.06	0.11	16	0.12	0.080
3199430	Soil	5.12	32.59	24.82	107.8	281	24.6	2.8	77	1.77	35.8	1.7	3.4	1.4	15.1	0.30	2.17	0.18	38	0.18	0.155
3199431	Soil	4.53	31.44	20.24	101.9	172	23.2	3.1	78	1.59	31.4	1.7	1.9	2.8	18.3	0.45	2.56	0.19	31	0.25	0.163
3199432	Soil	7.97	36.62	30.29	171.1	493	38.2	4.0	92	2.51	61.3	1.7	3.4	4.2	18.1	0.51	2.68	0.25	48	0.18	0.162
3199433	Soil	7.85	28.45	25.89	172.2	463	36.8	4.2	87	2.33	41.8	1.4	1.0	1.9	18.0	0.72	3.01	0.20	43	0.17	0.155
3199434	Soil	5.02	20.25	22.40	129.3	403	26.5	3.2	97	1.70	32.5	1.3	1.9	1.3	22.6	0.90	1.98	0.18	33	0.33	0.154
3199435	Soil	6.49	24.01	25.30	174.0	493	36.9	4.1	106	2.01	38.9	1.5	1.0	1.5	27.3	1.08	2.25	0.20	39	0.41	0.192
3199436	Soil	0.21	4.74	1.47	4.0	127	1.8	0.4	7	0.19	0.3	0.2	0.4	<0.1	4.2	0.04	0.08	0.03	4	0.02	0.021
3199437	Soil	1.67	78.06	18.12	64.3	130	57.5	4.7	68	3.25	4.8	0.7	<0.2	0.8	2.1	0.13	0.74	0.23	11	0.02	0.084
3199438	Soil	0.16	3.08	1.46	2.3	307	0.6	0.3	11	0.17	0.3	0.2	<0.2	<0.1	5.4	0.03	0.06	0.03	3	0.02	0.028
3199439	Soil	2.08	97.70	45.25	79.1	258	70.4	15.9	261	4.57	21.3	0.7	0.8	0.7	5.0	0.16	2.36	0.61	16	0.06	0.244
3199440	Rock Pulp																				
3199441	Soil	3.72	182.40	47.15	297.7	502	142.5	9.6	167	5.34	15.9	2.3	<0.2	2.4	4.5	0.52	2.70	0.48	12	0.10	0.242
3199442	Soil	1.94	12.66	7.08	21.6	1322	5.5	1.3	33	0.97	5.5	0.9	0.6	<0.1	10.0	0.07	0.51	0.13	19	0.06	0.096
3199443	Soil	7.29	49.73	21.61	97.0	1501	28.8	7.4	228	3.90	23.6	3.3	2.7	0.5	19.4	0.20	1.92	0.34	53	0.10	0.282
3199444	Soil	1.18	8.00	6.26	10.9	979	2.9	0.8	19	0.60	4.1	0.9	1.1	<0.1	10.0	0.05	0.68	0.07	9	0.03	0.108
3199445	Soil	5.89	25.85	27.93	43.1	3183	12.4	2.9	81	2.69	23.9	3.4	5.3	<0.1	41.2	0.14	2.44	0.26	36	0.07	0.437



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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
3198428	Soil	8.1	12.5	0.09	64.2	0.004	<20	0.71	0.013	0.04	<0.1	0.3	0.24	0.07	61	3.4	0.10	2.5
3198429	Soil	19.3	27.3	0.36	144.5	0.004	<20	1.10	0.004	0.09	<0.1	2.2	0.49	0.10	135	9.1	0.18	3.7
3198430	Soil	13.1	23.1	0.25	102.6	0.003	<20	0.79	0.004	0.06	<0.1	1.1	0.49	0.07	122	6.1	0.10	1.9
3198431	Soil	27.6	32.1	0.60	103.5	0.004	<20	1.58	0.002	0.08	<0.1	2.1	0.15	0.03	146	1.9	0.09	3.8
3198432	Soil	27.9	27.9	0.55	81.3	0.004	<20	1.36	0.001	0.06	<0.1	1.8	0.12	0.03	98	2.2	0.11	3.2
3199421	Soil	20.2	13.0	0.18	985.0	0.005	<20	0.64	0.001	0.06	<0.1	1.4	0.15	0.03	142	1.2	0.06	1.5
3199422	Soil	8.9	14.2	0.18	740.1	0.005	<20	0.96	0.014	0.11	<0.1	1.3	0.20	0.07	164	2.0	0.04	2.7
3199423	Soil	7.4	13.6	0.19	665.0	0.004	<20	0.93	0.015	0.10	<0.1	1.2	0.18	0.08	146	3.7	0.08	2.4
3199424	Soil	12.6	22.1	0.27	547.3	0.003	<20	1.31	0.009	0.11	<0.1	1.8	0.21	0.03	153	1.5	0.08	3.3
3199425	Soil	22.8	19.7	0.27	491.1	0.003	<20	1.03	0.002	0.11	<0.1	2.2	0.25	<0.02	153	1.4	0.10	2.6
3199426	Soil	11.8	16.7	0.22	540.7	0.004	<20	1.04	0.009	0.12	<0.1	1.8	0.22	0.05	202	2.5	0.05	2.6
3199427	Soil	11.8	14.8	0.21	536.8	0.003	<20	0.99	0.008	0.09	<0.1	1.5	0.18	0.04	143	3.0	0.05	2.4
3199428	Soil	23.1	12.7	0.14	260.2	0.004	<20	0.56	0.002	0.09	<0.1	1.5	0.35	0.02	120	0.8	0.08	1.5
3199429	Soil	5.4	7.5	0.06	258.5	0.006	<20	0.84	0.019	0.06	<0.1	0.7	0.20	0.06	95	3.0	0.02	2.2
3199430	Soil	18.7	15.2	0.12	212.3	0.003	<20	0.65	0.002	0.12	<0.1	1.3	0.29	<0.02	92	1.2	0.06	1.9
3199431	Soil	30.1	12.2	0.11	166.3	0.005	<20	0.48	0.001	0.08	<0.1	1.3	0.24	<0.02	64	0.9	0.04	1.2
3199432	Soil	20.3	19.6	0.19	232.8	0.003	<20	0.94	0.004	0.16	<0.1	2.0	0.34	0.02	82	1.4	0.08	2.5
3199433	Soil	20.4	17.9	0.19	255.1	0.003	<20	0.83	0.004	0.14	<0.1	1.5	0.27	0.02	97	1.4	0.09	2.3
3199434	Soil	15.8	15.4	0.18	242.4	0.003	<20	0.69	0.004	0.13	<0.1	1.2	0.27	0.02	87	1.3	0.06	2.0
3199435	Soil	17.6	17.5	0.19	283.7	0.004	<20	0.77	0.005	0.14	0.1	1.4	0.30	0.03	124	1.4	0.07	2.3
3199436	Soil	0.7	1.7	0.01	12.6	0.006	<20	0.28	0.029	0.02	<0.1	0.1	<0.02	<0.02	12	<0.1	<0.02	0.9
3199437	Soil	2.3	13.4	0.24	28.6	0.003	<20	0.64	0.012	0.05	<0.1	0.7	0.05	<0.02	45	0.7	0.04	1.5
3199438	Soil	0.8	1.2	0.01	14.5	0.003	<20	0.27	0.032	0.02	<0.1	<0.1	0.04	<0.02	20	<0.1	<0.02	0.9
3199439	Soil	5.2	15.0	0.20	49.2	0.005	<20	0.72	0.008	0.06	<0.1	0.8	0.07	0.02	60	1.6	0.11	2.2
3199440	Rock Pulp																	
3199441	Soil	5.5	14.0	0.08	40.7	0.002	<20	0.50	0.008	0.09	<0.1	1.6	0.09	0.02	93	2.8	0.12	1.1
3199442	Soil	5.9	7.6	0.06	49.8	0.005	<20	0.68	0.020	0.04	<0.1	0.3	0.10	0.03	106	1.0	0.05	2.6
3199443	Soil	17.7	32.7	0.38	134.1	0.013	<20	1.63	0.005	0.11	0.2	1.5	0.31	0.04	336	5.0	0.09	5.1
3199444	Soil	3.1	5.1	0.03	39.6	0.002	<20	0.36	0.025	0.03	<0.1	0.1	0.07	0.04	106	1.6	0.03	1.3
3199445	Soil	13.3	22.2	0.11	149.9	0.002	<20	1.10	0.014	0.10	<0.1	0.3	0.26	0.12	280	8.2	0.13	3.8



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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	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
3199446	Soil	7.98	26.80	25.37	42.8	2454	12.5	2.7	63	2.10	18.0	2.9	4.6	0.2	35.6	0.09	3.36	0.26	33	0.05	0.218
3199447	Soil	6.26	16.29	13.49	35.0	482	9.9	2.4	58	1.62	13.9	1.0	0.8	0.1	12.2	0.05	2.13	0.18	27	0.04	0.071
3199448	Soil	10.11	20.25	20.08	58.5	539	15.5	4.0	101	2.50	22.4	1.4	4.7	0.3	16.1	0.09	3.52	0.25	42	0.03	0.087
3199449	Soil	5.05	8.79	10.33	22.7	685	5.2	1.2	28	0.95	8.0	0.8	1.4	<0.1	7.5	0.03	2.00	0.13	23	0.01	0.045
3199450	Soil	6.38	51.25	21.28	129.2	321	38.5	10.9	240	3.51	24.2	2.2	2.6	3.0	17.6	0.29	2.67	0.25	42	0.07	0.100
3199451	Soil	6.94	55.78	22.93	132.4	478	38.0	11.0	222	3.78	28.3	2.7	1.5	6.7	18.8	0.34	2.68	0.24	44	0.05	0.112
3199452	Soil	8.71	23.53	23.86	131.4	524	32.5	5.4	164	4.89	51.1	1.5	2.5	1.8	8.4	0.24	3.62	0.30	58	0.01	0.085
3199453	Soil	8.62	45.13	21.35	207.2	502	63.6	20.9	587	4.66	68.3	2.3	3.4	4.3	9.5	0.60	3.82	0.26	52	0.03	0.136
3199454	Soil	3.58	6.11	8.04	24.3	113	5.7	1.2	16	0.67	9.5	0.6	0.6	<0.1	5.6	0.07	0.53	0.13	26	<0.01	0.046
3199455	Soil	10.45	28.20	22.79	181.3	269	44.6	6.4	155	3.74	50.2	1.8	1.3	1.3	12.1	0.52	3.29	0.28	62	0.07	0.168
3199456	Soil	4.56	22.08	10.76	43.4	1107	11.3	1.9	33	1.13	11.6	1.6	1.5	<0.1	8.1	0.16	0.98	0.13	23	0.01	0.092
3199457	Soil	11.58	35.85	21.20	226.3	259	48.4	8.7	219	3.41	39.0	2.0	3.4	2.3	15.1	0.74	2.81	0.24	52	0.04	0.105
3199458	Soil	13.28	25.44	17.27	177.8	622	38.0	3.3	62	2.04	19.4	1.4	1.8	0.9	9.7	0.57	2.55	0.15	50	0.02	0.082
3199459	Soil	10.06	51.90	20.75	193.5	765	42.1	12.5	281	3.58	24.4	1.7	0.7	5.6	17.0	0.98	3.15	0.24	35	0.05	0.085
3199460	Soil	16.97	34.96	20.20	230.0	324	49.4	4.8	94	2.92	27.7	1.6	3.1	1.6	11.7	0.68	2.98	0.23	60	0.03	0.093
3199461	Soil	15.91	56.05	26.15	188.3	884	37.8	5.1	91	3.65	31.2	2.0	6.9	1.3	23.1	0.68	3.31	0.33	55	0.02	0.103
3199462	Soil	15.63	38.50	24.96	145.1	1340	32.3	4.3	87	2.78	25.7	1.9	5.0	1.1	20.3	0.44	2.87	0.27	48	0.03	0.083
3199463	Soil	19.18	20.86	20.40	121.3	304	29.6	3.2	68	2.01	19.8	1.6	1.5	0.5	13.2	0.28	2.56	0.21	44	0.02	0.069
3199464	Soil	27.08	135.97	27.39	1225.9	1031	248.3	90.4	2156	5.08	51.1	14.2	1.0	4.8	37.3	11.52	7.14	0.24	62	0.88	0.339
3199465	Soil	3.35	8.93	10.97	27.7	809	9.0	2.1	41	1.26	10.1	0.6	1.5	0.2	6.0	0.04	1.17	0.13	17	<0.01	0.050
3199466	Soil	4.84	13.04	18.32	44.6	1589	13.3	3.1	68	2.08	15.8	0.7	2.0	0.2	7.7	0.13	2.25	0.18	27	0.02	0.071
3199467	Soil	3.23	9.67	11.91	30.0	1392	8.8	2.1	40	1.39	10.6	0.6	0.8	<0.1	6.6	0.09	2.02	0.13	15	0.01	0.062
3199468	Soil	7.02	16.03	20.89	49.3	415	12.6	2.6	54	2.24	24.0	1.1	1.5	0.2	25.1	0.08	2.98	0.23	34	0.01	0.114
3199469	Soil	16.02	12.28	66.17	40.5	4379	11.3	3.6	94	2.60	30.5	1.2	4.4	2.5	56.9	0.13	18.33	0.27	16	0.01	0.154
3199470	Soil	7.71	25.38	51.68	44.5	10017	11.2	3.2	127	2.84	23.7	4.2	11.6	0.3	53.5	0.16	4.59	0.31	44	0.22	0.656
3199471	Soil	11.96	81.42	41.20	231.7	1127	41.0	6.6	100	6.98	29.6	1.5	4.5	5.9	52.1	0.27	4.65	0.51	47	0.01	0.243
3199472	Soil	7.18	35.01	32.34	92.7	565	20.8	4.5	87	4.03	29.9	1.0	1.2	1.0	29.0	0.12	2.89	0.39	54	0.01	0.173
3199473	Soil	14.41	107.06	79.36	210.4	3195	42.3	13.2	496	7.32	42.6	1.7	15.0	7.0	97.2	0.61	7.90	0.77	88	0.06	0.194
3199474	Soil	17.88	52.36	70.69	144.6	3576	24.9	3.4	90	4.04	46.3	5.3	8.8	9.4	91.8	0.14	8.15	0.52	52	0.02	0.149
3199475	Soil	3.96	11.83	24.12	33.5	1584	6.6	1.2	26	1.15	10.8	0.5	4.1	0.2	23.5	0.03	2.42	0.17	16	0.01	0.051



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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
3199446	Soil	12.3	16.8	0.15	170.5	0.004	<20	0.89	0.012	0.10	<0.1	0.4	0.27	0.11	429	6.3	0.12	2.8
3199447	Soil	11.3	12.0	0.11	93.2	0.008	<20	0.79	0.012	0.06	<0.1	0.5	0.18	0.04	122	1.7	0.08	3.0
3199448	Soil	17.2	17.7	0.18	136.9	0.009	<20	0.95	0.007	0.08	<0.1	0.7	0.26	0.06	119	3.3	0.09	3.8
3199449	Soil	8.2	6.2	0.04	72.1	0.007	<20	0.47	0.015	0.05	<0.1	0.4	0.16	0.04	110	1.7	0.05	2.6
3199450	Soil	21.2	30.1	0.43	158.5	0.015	<20	1.71	0.004	0.11	0.2	2.1	0.28	0.04	198	4.2	0.08	3.9
3199451	Soil	22.1	28.5	0.44	193.9	0.017	<20	1.72	0.003	0.13	0.2	2.8	0.26	0.04	148	4.4	0.05	3.9
3199452	Soil	14.7	27.5	0.21	105.7	0.008	<20	1.19	0.003	0.08	0.1	1.3	0.25	0.02	142	5.4	0.12	4.4
3199453	Soil	15.6	27.8	0.32	133.3	0.003	<20	1.60	0.002	0.13	<0.1	1.9	0.31	0.02	285	6.6	0.13	3.0
3199454	Soil	19.2	6.5	0.03	45.8	0.004	<20	0.46	0.001	0.04	<0.1	0.3	0.21	<0.02	27	0.3	<0.02	3.3
3199455	Soil	15.4	21.5	0.23	103.1	0.006	<20	1.10	0.001	0.09	<0.1	1.1	0.29	0.02	90	3.5	0.15	2.7
3199456	Soil	8.2	8.5	0.05	62.8	0.002	<20	0.67	0.010	0.05	<0.1	0.3	0.25	0.03	221	1.1	0.04	2.3
3199457	Soil	17.7	20.8	0.29	98.7	0.004	<20	1.15	0.005	0.09	<0.1	1.5	0.23	<0.02	71	1.9	0.11	2.9
3199458	Soil	9.5	15.3	0.18	87.5	0.003	<20	0.73	0.009	0.07	<0.1	0.9	0.24	0.03	90	1.1	0.06	2.1
3199459	Soil	20.0	20.7	0.37	70.9	0.005	<20	0.96	0.002	0.05	<0.1	1.8	0.14	<0.02	68	2.5	0.11	2.1
3199460	Soil	14.2	17.7	0.26	92.5	0.002	<20	0.92	0.003	0.08	<0.1	1.1	0.27	0.02	53	1.6	0.11	2.3
3199461	Soil	13.2	19.4	0.26	133.7	0.003	<20	0.95	0.002	0.08	<0.1	1.2	0.23	0.04	104	2.5	0.13	2.8
3199462	Soil	11.2	17.9	0.23	143.9	0.003	<20	0.87	0.007	0.08	<0.1	1.2	0.32	0.03	172	2.1	0.11	2.7
3199463	Soil	14.0	13.4	0.17	78.8	0.003	<20	0.59	0.003	0.06	0.1	0.7	0.24	0.02	72	1.7	0.08	2.0
3199464	Soil	18.5	14.1	0.26	160.8	0.004	<20	1.29	0.002	0.05	0.1	3.2	0.51	0.11	193	4.1	0.12	0.8
3199465	Soil	9.5	8.5	0.09	54.2	0.005	<20	0.54	0.009	0.04	<0.1	0.4	0.12	0.03	79	1.1	0.03	2.4
3199466	Soil	11.9	13.1	0.13	80.0	0.006	<20	0.72	0.005	0.06	0.1	0.6	0.15	0.05	71	2.0	0.06	2.6
3199467	Soil	6.8	9.6	0.10	65.9	0.005	<20	0.47	0.014	0.05	<0.1	0.5	0.13	0.04	73	1.4	0.02	1.9
3199468	Soil	12.0	13.0	0.07	98.3	0.003	<20	0.77	0.007	0.06	0.1	0.4	0.22	0.05	70	2.0	0.09	3.1
3199469	Soil	10.9	8.2	0.12	243.0	0.003	<20	0.42	0.003	0.23	<0.1	0.9	1.69	0.38	440	10.4	0.08	1.1
3199470	Soil	14.1	17.8	0.08	352.1	0.006	<20	0.66	0.011	0.14	0.1	1.0	0.46	0.18	474	13.6	0.25	2.7
3199471	Soil	8.3	20.5	0.16	234.8	0.004	<20	0.84	0.004	0.11	<0.1	1.8	0.47	0.13	62	9.3	0.24	2.9
3199472	Soil	12.9	16.3	0.11	157.3	0.006	<20	0.71	0.006	0.09	<0.1	1.0	0.29	0.09	33	3.7	0.14	3.9
3199473	Soil	8.1	21.4	0.18	239.7	0.004	<20	1.01	0.008	0.08	<0.1	3.6	0.78	0.10	167	11.7	0.32	3.7
3199474	Soil	12.0	15.9	0.09	287.8	0.004	<20	0.64	0.006	0.13	<0.1	2.2	1.21	0.15	178	12.1	0.36	3.4
3199475	Soil	3.9	5.6	0.04	70.1	0.006	<20	0.38	0.019	0.05	<0.1	0.4	0.25	0.04	104	2.2	0.09	1.4



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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
3199476	Soil	8.93	32.84	31.98	130.7	885	29.8	5.1	106	3.70	38.2	1.5	5.3	3.0	42.5	0.32	2.93	0.31	48	0.02	0.123
3199477	Soil	8.79	35.84	26.26	241.1	479	49.1	8.6	201	3.15	30.7	2.4	1.5	2.4	19.0	0.73	2.79	0.20	39	0.14	0.127
3199478	Soil	7.04	38.02	34.77	144.7	1567	40.8	6.8	77	2.36	18.4	3.3	2.8	0.1	24.6	1.14	2.29	0.23	32	0.09	0.185
3199479	Soil	5.18	21.31	20.18	117.4	175	27.2	3.1	69	2.19	21.0	0.9	1.4	0.2	7.3	0.33	1.83	0.16	30	0.01	0.101
3199480	Rock Pulp	12.15	161.94	279.04	208.9	99	81.0	48.1	260	1.53	9.1	0.5	39.3	3.4	31.5	0.50	0.16	0.13	23	0.53	0.050
3199481	Soil	6.65	19.37	17.71	109.9	301	22.7	3.3	82	2.76	32.7	1.1	2.4	1.1	15.2	0.23	3.07	0.19	32	0.01	0.114
3199482	Soil	8.32	34.57	29.52	166.8	730	37.0	5.9	115	3.71	41.1	1.6	2.4	2.1	44.2	0.28	4.16	0.28	37	0.03	0.151
3199483	Soil	6.67	35.68	25.17	180.8	822	42.8	4.6	74	2.73	28.8	1.6	1.9	1.2	33.3	0.37	4.36	0.22	31	0.03	0.169
3199484	Soil	5.49	19.98	21.58	123.5	124	28.0	4.0	99	2.93	23.5	0.9	1.0	2.9	8.3	0.22	1.41	0.18	39	0.01	0.082
3199485	Soil	6.93	42.59	24.60	195.9	141	45.7	13.1	246	4.02	35.1	2.4	2.9	6.6	12.2	0.48	2.32	0.23	36	0.05	0.110



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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
3199476	Soil	16.3	21.5	0.26	151.3	0.003	<20	0.98	0.004	0.13	<0.1	2.0	0.64	0.09	88	3.6	0.13	3.0
3199477	Soil	20.9	21.0	0.33	184.2	0.003	<20	1.10	0.004	0.10	<0.1	1.9	0.25	<0.02	118	2.3	0.07	2.6
3199478	Soil	12.6	16.0	0.11	248.4	0.001	<20	1.04	0.005	0.14	<0.1	0.5	0.27	0.11	208	1.8	0.07	2.3
3199479	Soil	12.1	13.1	0.14	75.7	0.001	<20	0.61	0.006	0.07	<0.1	0.4	0.12	0.03	46	1.0	0.08	2.3
3199480	Rock Pulp	26.9	33.5	0.47	60.6	0.075	<20	0.80	0.085	0.12	<0.1	3.0	0.08	0.04	15	<0.1	<0.02	2.4
3199481	Soil	15.4	16.1	0.20	128.3	0.003	<20	0.78	0.007	0.08	<0.1	0.8	0.16	0.05	57	1.9	0.09	2.6
3199482	Soil	15.5	23.0	0.31	242.4	0.006	<20	1.22	0.012	0.10	<0.1	1.6	0.25	0.07	49	2.7	0.09	3.4
3199483	Soil	12.7	14.2	0.17	158.8	0.005	<20	0.74	0.007	0.05	0.1	1.0	0.14	0.05	82	2.2	0.08	2.1
3199484	Soil	17.0	19.5	0.26	101.3	0.003	<20	1.14	0.003	0.08	<0.1	1.4	0.14	<0.02	21	0.9	0.09	3.2
3199485	Soil	20.2	28.2	0.42	168.5	0.003	<20	1.54	0.002	0.12	<0.1	2.3	0.20	<0.02	103	1.5	0.08	3.2



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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	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																					
3198375	Soil	8.47	33.06	52.81	66.9	694	17.8	2.4	136	2.04	23.8	1.8	4.4	1.0	15.2	0.16	2.71	0.20	43	0.06	0.069
REP 3198375	QC	8.74	32.44	53.47	66.1	684	17.5	2.6	136	2.04	24.2	1.8	3.6	1.0	15.2	0.17	2.79	0.21	43	0.06	0.076
3198411	Soil	4.71	7.05	13.61	33.8	256	6.4	1.2	22	0.86	14.9	0.5	2.2	<0.1	6.5	0.08	1.24	0.14	23	<0.01	0.061
REP 3198411	QC	4.84	7.50	13.79	36.2	251	6.6	1.3	22	0.88	15.7	0.5	1.3	<0.1	6.9	0.10	1.30	0.14	23	<0.01	0.063
3199435	Soil	6.49	24.01	25.30	174.0	493	36.9	4.1	106	2.01	38.9	1.5	1.0	1.5	27.3	1.08	2.25	0.20	39	0.41	0.192
REP 3199435	QC	6.13	23.32	24.13	170.3	477	35.0	3.8	97	1.91	36.7	1.4	1.3	1.5	25.7	0.95	2.25	0.19	39	0.40	0.172
3199469	Soil	16.02	12.28	66.17	40.5	4379	11.3	3.6	94	2.60	30.5	1.2	4.4	2.5	56.9	0.13	18.33	0.27	16	0.01	0.154
REP 3199469	QC	16.34	12.41	65.58	41.6	4318	10.5	3.6	92	2.64	30.3	1.2	6.5	2.4	58.3	0.15	18.84	0.29	16	0.01	0.148
Reference Materials																					
STD DS11	Standard	14.33	146.82	134.39	349.5	1643	78.9	13.8	973	3.11	42.4	2.5	79.2	7.6	69.1	2.53	7.97	11.72	48	1.04	0.070
STD DS11	Standard	14.31	148.83	140.70	339.0	1743	77.7	14.0	1039	3.16	42.2	2.6	136.9	7.4	68.2	2.35	6.49	11.00	48	1.06	0.065
STD DS11	Standard	13.54	147.50	138.33	336.3	1675	75.6	13.4	954	3.00	39.4	2.8	75.6	7.0	60.7	2.11	5.98	10.47	47	1.03	0.071
STD DS11	Standard	13.83	145.04	130.50	312.2	1726	74.1	12.8	999	3.01	41.5	2.6	240.7	7.6	59.3	2.22	6.54	10.46	47	1.03	0.067
STD OREAS45EA	Standard	1.79	715.52	15.53	33.1	267	395.2	55.2	421	24.48	12.8	1.9	57.1	11.3	4.1	0.02	0.43	0.28	328	0.03	0.029
STD OREAS45EA	Standard	1.68	700.61	14.78	32.6	240	413.5	54.0	424	22.57	10.5	1.9	54.4	11.2	3.8	0.04	0.24	0.24	331	0.03	0.029
STD OREAS45EA	Standard	1.55	695.32	13.39	30.1	235	398.8	50.8	398	20.48	10.7	1.7	49.1	10.3	3.4	0.03	0.27	0.23	313	0.03	0.029
STD OREAS45EA	Standard	1.49	668.25	13.13	29.3	221	389.3	49.2	389	19.77	10.4	1.7	49.1	10.4	3.3	0.03	0.25	0.22	308	0.03	0.027
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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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																		
3198375	Soil	17.3	11.9	0.07	1050.6	0.005	<20	0.66	0.003	0.10	<0.1	1.4	0.29	0.03	135	2.0	0.07	2.3
REP 3198375	QC	17.1	12.7	0.07	1061.0	0.005	<20	0.66	0.003	0.10	<0.1	1.3	0.27	0.03	149	2.0	0.12	2.3
3198411	Soil	12.7	6.3	0.03	79.1	0.003	<20	0.35	0.007	0.05	<0.1	0.4	0.15	0.02	35	0.9	0.04	2.3
REP 3198411	QC	12.7	6.5	0.03	79.7	0.003	<20	0.35	0.007	0.05	<0.1	0.4	0.16	0.02	34	0.8	0.04	2.2
3199435	Soil	17.6	17.5	0.19	283.7	0.004	<20	0.77	0.005	0.14	0.1	1.4	0.30	0.03	124	1.4	0.07	2.3
REP 3199435	QC	16.7	16.7	0.20	284.4	0.004	<20	0.74	0.005	0.14	0.1	1.4	0.26	0.03	106	1.1	0.07	2.1
3199469	Soil	10.9	8.2	0.12	243.0	0.003	<20	0.42	0.003	0.23	<0.1	0.9	1.69	0.38	440	10.4	0.08	1.1
REP 3199469	QC	11.2	8.3	0.13	236.4	0.003	<20	0.43	0.004	0.24	<0.1	0.8	1.68	0.39	416	10.3	0.07	1.0
Reference Materials																		
STD DS11	Standard	18.1	56.9	0.83	436.4	0.090	<20	1.14	0.071	0.40	2.7	3.3	5.05	0.27	286	2.3	4.90	5.2
STD DS11	Standard	17.9	59.8	0.83	408.9	0.091	<20	1.09	0.071	0.40	2.7	3.1	5.05	0.27	236	2.3	4.63	4.8
STD DS11	Standard	17.1	57.0	0.81	385.9	0.088	<20	1.11	0.072	0.38	2.4	3.0	4.96	0.27	280	1.8	4.62	4.6
STD DS11	Standard	16.7	54.8	0.80	386.4	0.088	<20	1.06	0.068	0.39	2.8	3.1	4.62	0.26	219	2.2	4.28	4.5
STD OREAS45EA	Standard	7.6	881.8	0.09	156.8	0.100	<20	3.32	0.020	0.05	<0.1	85.2	0.07	0.03	18	1.7	0.12	13.7
STD OREAS45EA	Standard	7.3	928.9	0.11	142.2	0.099	<20	3.31	0.021	0.06	<0.1	80.5	0.07	0.03	10	1.1	0.13	12.9
STD OREAS45EA	Standard	6.6	873.7	0.10	129.9	0.096	<20	3.33	0.021	0.06	<0.1	77.1	0.06	0.03	14	1.4	0.07	11.8
STD OREAS45EA	Standard	6.3	841.8	0.10	127.7	0.097	<20	3.12	0.020	0.06	<0.1	75.3	0.07	0.02	10	1.3	0.09	11.5
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	6	<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	9	<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