



BUREAU MINERAL LABORATORIES
VERITAS Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

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

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: August 02, 2018
Report Date: September 07, 2018
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI18000524.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID:
P.O. Number
Number of Samples: 285

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	278	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	7	Sort, label and box pulps			WHI
AQ250	285	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	285	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


KERRY JAY
Geochem Project Specialist

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 11

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
3198825	Soil	33.17	29.97	65.20	37.4	2817	8.3	1.6	28	1.29	27.5	4.4	12.1	0.2	33.7	0.23	9.54	0.43	119	0.03	0.066
3198826	Soil	69.90	16.91	126.13	24.4	2634	5.1	0.7	27	2.36	74.8	4.4	9.2	2.4	38.3	0.12	32.05	0.69	135	0.01	0.088
3198827	Soil	53.63	26.25	131.78	34.0	3852	6.7	1.1	50	3.22	75.0	4.7	5.6	1.9	32.7	0.09	24.90	0.62	130	0.01	0.112
3198828	Soil	71.30	22.34	118.82	26.3	3623	5.6	0.5	20	2.26	76.0	4.9	6.7	5.0	43.2	0.09	33.90	0.76	126	<0.01	0.083
3198829	Soil	20.61	13.59	50.18	25.1	1138	4.3	0.9	20	0.88	21.4	1.2	0.8	0.2	18.3	0.06	6.13	0.22	69	0.02	0.047
3198830	Soil	26.63	19.68	123.28	24.3	1178	4.9	0.5	8	3.05	51.1	4.3	2.7	0.3	26.1	0.90	10.94	0.22	109	<0.01	0.090
3198831	Soil	35.24	21.49	266.08	46.8	1300	5.8	0.9	21	3.42	95.7	2.4	4.6	2.7	38.1	0.08	15.70	0.36	93	0.01	0.105
3198832	Soil	36.54	24.55	205.72	54.4	989	7.7	1.2	26	4.13	91.8	2.6	4.9	3.3	35.0	0.10	15.44	0.39	103	<0.01	0.120
3198833	Soil	19.89	14.34	148.77	19.7	769	3.4	0.5	11	1.16	33.1	1.5	1.8	0.1	24.0	0.07	4.29	0.34	66	<0.01	0.054
3198834	Soil	19.36	27.44	411.62	54.5	671	4.7	0.7	22	2.84	104.6	1.7	3.8	4.5	33.0	0.08	10.93	0.21	63	<0.01	0.073
3198835	Soil	29.42	32.78	375.23	34.7	5245	6.4	0.9	17	3.11	80.5	3.9	6.5	0.9	54.5	0.10	10.46	0.53	79	0.02	0.134
3198836	Soil	14.78	26.56	391.37	46.7	890	5.0	0.6	23	1.85	46.2	1.6	3.9	6.8	28.9	0.11	8.67	0.27	42	<0.01	0.052
3198837	Soil	20.93	59.02	127.76	22.5	2009	6.9	0.8	29	4.85	102.9	5.1	7.0	2.2	65.6	0.13	14.46	0.51	80	0.02	0.403
3198838	Soil	18.28	43.48	361.28	58.4	2089	8.8	1.0	31	3.09	47.3	2.2	10.7	2.7	38.6	0.14	8.80	0.44	63	<0.01	0.079
3198839	Soil	23.23	37.52	148.31	73.3	850	13.9	2.0	74	3.20	57.5	2.0	3.5	1.8	41.7	0.14	8.72	0.30	52	0.01	0.092
3198840	Rock Pulp	0.63	22.73	1.97	19.5	26	17.2	5.7	244	1.35	0.8	0.4	0.9	2.9	27.3	0.03	0.05	<0.02	21	0.58	0.051
3198841	Soil	32.66	37.51	182.38	97.9	1028	17.8	3.1	95	3.72	81.8	2.3	4.3	3.2	53.5	0.18	13.96	0.45	68	0.02	0.110
3198842	Soil	17.38	11.21	108.97	30.4	684	4.9	0.7	19	1.15	34.4	0.8	1.4	1.8	31.8	0.07	8.19	0.32	46	<0.01	0.057
3198843	Soil	27.09	25.59	210.09	45.6	1362	9.4	1.1	26	2.49	51.4	1.8	4.8	1.3	51.0	0.10	8.38	0.45	59	0.01	0.087
3198844	Soil	16.60	17.16	113.44	44.8	814	8.4	1.2	34	3.14	61.6	1.4	5.3	2.9	43.1	0.08	8.05	0.41	65	0.01	0.083
3198845	Soil	48.91	340.80	94.98	345.7	732	160.5	13.2	3812	12.31	188.7	15.7	13.6	4.2	42.1	1.96	7.78	0.27	125	0.10	0.243
3198846	Soil	24.07	47.58	42.14	155.2	802	61.3	11.3	3003	2.74	37.0	7.8	3.6	2.4	44.8	2.50	4.55	0.23	52	0.36	0.148
3198847	Soil	61.15	71.91	64.59	530.2	1317	129.9	5.1	413	4.29	73.5	7.3	2.9	0.6	27.1	2.38	10.03	0.17	123	0.13	0.146
3198848	Soil	17.89	28.91	41.95	105.8	1081	32.1	9.6	1610	3.11	66.1	5.9	8.8	2.2	63.5	1.06	4.08	0.24	47	0.49	0.148
3198849	Soil	12.99	43.91	38.55	249.9	1411	63.0	9.3	2226	2.31	30.7	11.0	2.7	1.1	62.6	2.54	3.63	0.20	40	0.63	0.155
3198850	Soil	10.17	30.51	38.97	143.9	382	23.2	5.9	390	3.46	29.3	1.7	0.5	2.1	40.2	0.95	2.51	0.25	46	0.26	0.135
3198851	Soil	30.69	29.42	56.20	96.6	4710	21.1	2.7	52	3.97	50.7	2.4	3.6	6.7	51.4	0.13	10.10	0.31	70	0.02	0.118
3198852	Soil	14.85	23.02	35.56	33.0	1893	8.0	1.2	20	2.99	38.7	0.7	2.0	0.3	12.3	0.17	5.74	0.20	106	0.02	0.091
3198853	Soil	33.16	30.89	178.15	35.4	1154	5.4	0.7	17	6.09	110.1	4.7	1.9	0.9	33.1	0.07	14.18	0.28	268	<0.01	0.155
3198854	Soil	18.99	31.13	99.15	20.6	1187	3.3	0.5	11	3.89	102.2	2.5	2.6	1.4	23.8	0.07	9.84	0.22	250	<0.01	0.117



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Page: 2 of 11

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
3198825	Soil	24.9	22.1	0.01	604.2	0.009	<20	0.63	0.005	0.05	0.3	0.6	0.28	0.03	88	6.1	0.22	3.0
3198826	Soil	17.6	17.3	0.02	822.7	0.014	<20	0.32	0.002	0.14	0.5	0.9	1.24	0.23	325	24.7	0.35	3.3
3198827	Soil	14.7	24.0	0.05	631.8	0.012	<20	0.59	0.003	0.14	0.5	1.1	1.05	0.17	485	23.7	0.34	3.6
3198828	Soil	18.2	16.4	0.02	1381.6	0.012	<20	0.38	0.003	0.18	0.7	1.2	1.45	0.31	1376	32.5	0.36	2.4
3198829	Soil	15.2	8.4	<0.01	336.1	0.010	<20	0.33	0.010	0.04	0.2	0.5	0.22	0.03	53	3.2	0.07	2.0
3198830	Soil	14.1	18.3	0.01	2709.2	0.004	<20	0.32	0.003	0.05	0.2	0.7	0.55	0.17	398	15.5	0.14	1.8
3198831	Soil	16.7	12.4	0.02	878.9	0.011	<20	0.30	0.003	0.11	0.2	1.0	0.78	0.19	154	15.1	0.23	2.8
3198832	Soil	18.2	14.0	0.02	1728.3	0.012	<20	0.39	0.004	0.10	0.3	1.1	0.69	0.17	196	14.1	0.21	3.6
3198833	Soil	19.3	7.8	0.02	343.9	0.005	<20	0.52	0.006	0.05	0.2	0.3	0.42	0.05	69	3.7	0.09	3.9
3198834	Soil	21.5	10.5	<0.01	3387.9	0.004	<20	0.20	0.001	0.08	<0.1	1.0	0.43	0.19	168	7.0	0.11	1.7
3198835	Soil	29.5	27.7	0.02	470.4	0.003	<20	0.48	0.002	0.08	0.1	0.6	0.69	0.12	215	7.9	0.26	4.0
3198836	Soil	30.2	12.1	0.03	1733.1	0.003	<20	0.40	0.001	0.08	<0.1	1.3	0.37	0.11	345	5.0	0.13	1.9
3198837	Soil	21.2	54.2	0.03	395.1	0.004	<20	0.90	0.004	0.11	<0.1	1.7	1.00	0.29	202	12.1	0.40	3.6
3198838	Soil	27.5	21.1	0.06	487.6	0.003	<20	0.74	0.003	0.10	<0.1	1.6	0.47	0.11	307	7.0	0.17	3.7
3198839	Soil	22.8	15.9	0.05	413.3	0.004	<20	0.52	0.004	0.08	<0.1	1.1	0.42	0.12	135	6.3	0.14	2.5
3198840	Rock Pulp	15.4	26.6	0.42	53.2	0.066	<20	0.74	0.085	0.11	<0.1	2.5	0.06	<0.02	10	<0.1	<0.02	2.3
3198841	Soil	29.0	22.5	0.07	533.0	0.003	<20	0.48	0.003	0.09	<0.1	1.6	0.63	0.14	196	8.8	0.18	2.8
3198842	Soil	37.0	7.3	0.01	254.5	0.003	<20	0.21	0.003	0.06	0.1	0.7	0.33	0.07	30	3.6	0.14	2.1
3198843	Soil	28.7	13.4	0.01	759.4	0.004	<20	0.41	0.006	0.16	<0.1	1.0	0.93	0.27	151	6.6	0.15	2.6
3198844	Soil	18.1	12.7	0.03	555.4	0.011	<20	0.47	0.004	0.09	0.2	1.1	0.44	0.11	55	5.1	0.16	4.8
3198845	Soil	20.4	21.9	0.06	380.8	0.004	<20	1.34	<0.001	0.06	1.3	5.4	0.33	0.04	230	8.3	0.19	1.5
3198846	Soil	12.5	14.8	0.05	857.9	0.005	<20	0.73	0.003	0.05	0.2	2.9	0.43	0.06	203	3.0	0.08	1.9
3198847	Soil	7.9	14.5	0.04	220.2	0.003	<20	0.38	0.005	0.04	0.2	1.4	1.10	0.06	249	5.2	0.11	1.1
3198848	Soil	11.9	14.3	0.10	850.1	0.006	<20	0.75	0.005	0.05	0.3	1.9	0.43	0.05	174	3.6	0.08	2.2
3198849	Soil	8.8	12.1	0.08	830.9	0.005	<20	0.68	0.007	0.04	0.1	1.8	0.32	0.07	241	4.0	0.06	1.8
3198850	Soil	15.3	13.9	0.12	350.6	0.008	<20	0.66	<0.001	0.05	0.3	1.3	0.25	0.02	29	2.1	0.06	2.8
3198851	Soil	16.4	20.0	0.08	556.7	0.008	<20	0.76	0.004	0.09	0.3	1.5	0.87	0.17	1011	6.6	0.17	2.9
3198852	Soil	10.0	9.9	<0.01	180.2	0.012	<20	0.35	0.013	0.03	0.1	0.6	0.11	0.03	56	2.4	0.08	1.7
3198853	Soil	12.8	22.6	0.02	2061.6	0.004	<20	0.34	0.003	0.10	0.2	1.3	0.95	0.28	436	16.2	0.17	2.2
3198854	Soil	14.8	12.8	<0.01	1395.0	0.005	<20	0.25	0.004	0.06	0.1	1.0	0.58	0.10	122	7.8	0.11	1.9



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Page:

3 of 11

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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
3198855	Soil	31.63	27.47	158.66	29.1	1272	4.5	0.5	15	5.69	99.0	4.6	3.0	1.3	32.4	0.07	13.92	0.26	268	0.04	0.162
3198856	Soil	23.97	85.59	59.38	446.3	1084	106.8	14.2	232	4.43	82.4	7.5	3.2	3.6	53.6	2.80	8.49	0.30	116	0.31	0.254
3198857	Soil	20.95	98.69	35.26	521.0	1121	131.9	17.1	267	4.07	78.0	7.3	2.2	3.4	66.8	3.89	7.39	0.35	74	0.63	0.261
3198858	Soil	49.22	14.01	96.47	62.1	931	9.8	1.5	30	1.93	62.1	1.5	1.4	0.3	82.4	0.11	9.69	0.44	105	0.01	0.104
3198859	Soil	33.87	14.73	80.72	55.1	811	8.5	1.2	25	2.14	69.3	1.8	2.3	0.9	84.4	0.09	8.04	0.41	98	0.01	0.108
3198860	Soil	41.44	17.30	67.34	62.9	832	7.4	1.0	24	2.21	70.8	2.0	3.6	1.9	104.2	0.09	10.58	0.42	95	0.01	0.106
3198861	Soil	41.51	16.75	78.82	60.1	1004	7.5	0.9	23	2.22	72.5	2.2	4.6	1.1	103.5	0.10	10.66	0.42	101	0.01	0.117
3198862	Soil	33.27	10.66	63.55	20.3	558	3.2	0.4	8	0.98	31.9	1.3	2.9	0.2	53.0	0.04	5.09	0.33	53	<0.01	0.053
3198863	Soil	14.88	4.58	15.32	11.4	356	1.7	0.2	5	0.31	9.1	0.7	0.9	0.6	36.7	<0.01	1.74	0.15	24	<0.01	0.022
3198864	Soil	82.41	19.64	123.89	31.1	2442	6.9	0.7	18	2.48	97.9	6.1	6.8	2.5	91.1	0.13	21.92	0.55	133	0.02	0.118
3198865	Soil	37.22	26.07	204.47	55.7	859	8.2	1.1	28	2.71	77.0	2.8	3.6	3.7	66.5	0.11	12.53	0.42	115	<0.01	0.084
3198866	Soil	34.96	13.12	132.77	45.2	2608	5.0	0.7	20	1.47	50.4	2.5	3.2	1.0	83.5	0.10	8.68	0.35	77	0.01	0.063
3198867	Soil	34.26	20.76	114.51	54.5	1138	8.0	1.3	29	2.44	77.0	2.2	3.8	1.9	88.3	0.07	11.10	0.40	103	0.01	0.096
3198868	Soil	13.25	25.18	32.90	39.6	969	8.0	1.1	21	1.19	28.0	1.2	2.3	0.2	24.7	0.09	2.22	0.26	41	0.01	0.040
3198869	Soil	9.64	10.82	14.81	33.8	558	5.1	0.9	17	0.86	16.6	0.5	0.5	<0.1	10.9	0.04	1.94	0.12	38	<0.01	0.027
3198870	Soil	38.06	33.84	66.68	59.1	1520	11.0	1.5	31	6.16	123.5	1.8	3.3	3.0	42.3	0.09	10.02	0.65	161	0.02	0.234
3198871	Soil	15.49	33.70	37.88	91.7	1413	23.0	3.2	66	2.89	50.1	2.3	3.2	3.9	32.9	0.13	4.57	0.27	56	0.02	0.089
3198872	Soil	14.18	41.10	31.62	76.6	1274	17.9	2.5	49	3.75	35.8	3.4	3.5	1.3	25.5	0.10	4.16	0.27	57	0.02	0.112
3198873	Soil	8.28	20.62	23.65	40.1	523	8.8	1.6	27	2.20	29.5	1.0	1.3	0.2	12.9	0.07	2.38	0.20	76	0.02	0.069
3198874	Soil	55.02	22.12	120.16	43.7	1652	6.6	0.9	27	2.68	78.3	4.0	4.7	0.9	78.7	0.09	14.31	0.43	95	0.01	0.107
3198875	Soil	43.01	17.34	147.80	13.5	1942	3.7	0.9	48	1.14	30.2	4.3	2.5	0.8	14.9	0.05	11.02	0.39	67	0.04	0.055
3198876	Soil	63.73	9.20	151.57	13.2	1155	2.9	0.4	8	0.86	30.3	3.0	2.3	0.5	17.9	0.05	14.17	0.41	98	<0.01	0.039
3198877	Soil	93.75	12.76	254.55	15.5	2118	5.7	0.8	19	1.37	52.4	5.0	4.4	0.7	23.6	0.06	14.84	0.64	143	0.02	0.062
3198878	Soil	99.34	22.33	118.92	22.3	866	7.2	1.4	59	1.66	44.7	3.1	8.4	0.9	24.7	0.13	24.49	0.51	127	0.05	0.063
3198879	Soil	17.02	10.81	27.09	15.4	747	5.8	0.9	30	0.56	9.8	1.0	1.0	0.1	11.6	0.04	2.83	0.16	44	0.02	0.051
3198880	Soil	46.88	13.45	76.74	36.3	1155	7.5	1.2	24	0.96	36.8	2.0	2.0	0.4	27.1	0.08	7.67	0.37	94	0.02	0.059
3198881	Soil	54.89	9.50	108.83	12.3	1511	4.0	0.5	14	1.07	34.3	2.4	4.8	0.1	20.9	0.04	11.69	0.42	108	<0.01	0.054
3198882	Soil	223.70	41.91	79.23	27.7	3569	4.2	0.7	40	5.03	436.3	33.2	6.6	15.0	233.2	0.21	85.94	0.99	426	0.04	0.213
3198883	Soil	55.02	13.23	58.83	52.9	1174	7.8	0.7	19	2.16	69.0	3.2	3.3	2.2	106.4	0.09	16.73	0.38	97	0.01	0.140
3198884	Soil	38.86	13.80	110.97	71.9	1810	7.1	1.0	28	2.56	78.8	3.2	4.9	1.0	104.0	0.08	14.35	0.34	106	0.01	0.130



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

Project: MacMillan Pass
Report Date: September 07, 2018

Page: 3 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3198855	Soil	12.8	20.7	0.01	2440.7	0.005	<20	0.35	0.004	0.09	0.2	1.3	0.88	0.22	426	14.9	0.16	2.2
3198856	Soil	20.5	15.9	0.08	1805.4	0.006	<20	0.69	0.002	0.07	0.2	2.4	0.62	0.09	255	5.9	0.12	1.6
3198857	Soil	20.7	14.5	0.17	803.5	0.006	<20	0.72	0.002	0.06	0.2	2.3	0.55	0.04	253	3.4	0.11	1.6
3198858	Soil	11.8	10.5	0.08	962.3	0.010	<20	0.34	0.005	0.14	0.5	0.6	1.15	0.25	82	9.4	0.20	3.2
3198859	Soil	13.7	10.8	0.03	1246.4	0.011	<20	0.42	0.003	0.16	0.3	0.8	1.05	0.26	118	8.1	0.16	3.7
3198860	Soil	14.2	12.1	0.04	1798.3	0.006	<20	0.37	0.003	0.17	0.3	1.0	1.28	0.32	103	11.9	0.20	2.8
3198861	Soil	15.9	12.9	0.03	1554.0	0.008	<20	0.38	0.003	0.19	0.3	0.9	1.44	0.34	109	12.1	0.21	3.0
3198862	Soil	14.7	7.0	0.02	2174.3	0.004	<20	0.32	0.001	0.08	0.3	0.5	0.68	0.13	105	5.5	0.20	2.5
3198863	Soil	14.9	3.4	<0.01	2505.2	0.004	<20	0.16	0.001	0.04	0.2	0.4	0.24	0.07	43	1.2	0.10	1.2
3198864	Soil	14.1	17.3	0.03	1155.4	0.010	<20	0.33	0.005	0.23	0.7	1.3	1.87	0.44	599	23.1	0.42	3.7
3198865	Soil	15.4	17.0	0.03	1355.3	0.012	<20	0.43	0.002	0.14	0.3	1.8	1.08	0.25	400	12.4	0.28	3.5
3198866	Soil	13.4	10.1	0.02	1207.0	0.008	<20	0.32	0.007	0.12	0.4	0.8	1.13	0.23	292	10.6	0.25	3.1
3198867	Soil	15.8	13.2	0.02	1428.1	0.010	<20	0.39	0.001	0.12	0.3	1.1	0.98	0.21	258	10.0	0.24	3.7
3198868	Soil	17.2	6.1	0.01	346.5	0.006	<20	0.43	0.008	0.04	0.2	0.5	0.29	0.03	62	1.6	0.10	2.6
3198869	Soil	15.2	4.2	<0.01	134.2	0.005	<20	0.18	0.005	0.03	0.2	0.3	0.16	0.02	33	0.8	0.04	1.7
3198870	Soil	10.9	14.8	0.04	1048.2	0.025	<20	0.77	0.006	0.13	0.3	1.2	1.25	0.28	129	7.7	0.37	7.8
3198871	Soil	18.2	19.1	0.11	311.6	0.013	<20	0.85	0.004	0.07	0.3	1.5	0.43	0.06	246	3.4	0.11	3.2
3198872	Soil	15.4	17.9	0.10	1963.2	0.012	<20	0.63	0.003	0.07	0.2	1.1	0.92	0.10	209	7.4	0.09	3.2
3198873	Soil	10.8	8.4	0.02	203.9	0.010	<20	0.41	0.009	0.04	0.2	0.5	0.21	0.04	61	1.6	0.04	2.6
3198874	Soil	14.7	13.9	0.04	1162.4	0.006	<20	0.37	0.004	0.17	0.4	0.9	1.44	0.31	415	14.9	0.32	3.2
3198875	Soil	8.5	10.3	0.03	356.9	0.019	<20	0.52	0.018	0.13	0.8	0.9	1.39	0.21	328	15.8	0.33	2.5
3198876	Soil	18.6	10.4	0.01	379.9	0.008	<20	0.21	<0.001	0.06	0.6	0.6	0.73	0.09	111	16.6	0.46	1.9
3198877	Soil	15.8	17.8	0.03	462.9	0.016	<20	0.34	0.003	0.11	1.3	0.8	1.53	0.18	316	29.3	0.66	3.4
3198878	Soil	17.9	15.3	0.03	466.0	0.018	<20	0.46	0.009	0.09	0.7	0.9	0.66	0.14	111	32.9	0.60	2.2
3198879	Soil	8.6	11.3	0.01	178.5	0.011	<20	0.30	0.022	0.06	0.2	0.4	0.16	0.03	70	1.9	0.07	1.8
3198880	Soil	18.9	13.9	0.02	439.8	0.010	<20	0.33	0.007	0.07	0.4	0.6	0.40	0.06	112	6.1	0.23	2.7
3198881	Soil	11.3	12.6	0.03	474.6	0.009	<20	0.42	0.010	0.12	0.6	0.6	0.96	0.13	256	11.0	0.27	3.0
3198882	Soil	26.9	37.6	0.03	1662.4	0.024	<20	0.45	0.006	0.28	1.5	2.3	3.47	0.48	994	94.3	0.98	16.4
3198883	Soil	12.7	15.1	0.02	1313.4	0.013	<20	0.31	0.006	0.21	0.6	1.0	1.87	0.38	191	18.7	0.34	3.3
3198884	Soil	15.0	14.2	0.04	1449.8	0.009	<20	0.43	0.001	0.19	0.4	0.9	1.57	0.33	546	15.7	0.27	2.7



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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

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Page:

4 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3198885	Soil	48.94	20.47	70.37	47.1	2241	8.0	0.8	22	2.63	135.3	3.8	4.2	2.8	97.9	0.08	12.18	0.84	107	0.02	0.149
3198886	Soil	56.82	36.87	152.38	74.1	631	9.9	1.1	30	2.28	73.1	5.9	1.6	2.9	101.3	0.14	11.68	0.42	91	0.01	0.099
3198887	Soil	37.04	10.89	98.93	38.7	1394	5.4	0.6	16	1.77	63.0	1.5	3.5	1.5	87.2	0.05	9.43	0.41	75	0.01	0.093
3198888	Soil	42.54	8.38	103.52	24.8	863	2.6	0.3	8	1.28	64.8	2.0	2.1	2.3	53.6	0.03	10.82	0.32	70	<0.01	0.058
3198889	Soil	20.11	21.63	66.65	18.6	1771	4.8	0.5	8	0.93	26.1	3.4	0.9	<0.1	44.6	0.09	4.62	0.34	39	0.02	0.090
3198890	Soil	35.98	12.67	110.12	30.2	992	4.1	0.6	13	1.32	50.1	2.1	3.0	0.3	56.6	0.05	8.21	0.35	63	0.01	0.066
3198951	Soil	10.56	57.36	48.33	134.4	971	32.1	5.3	182	3.92	48.9	2.0	2.6	1.4	54.9	0.42	3.91	0.30	50	0.29	0.401
3198952	Soil	13.02	104.33	47.79	286.2	891	61.4	8.8	288	3.92	42.6	3.8	7.3	5.3	38.8	1.94	5.06	0.28	42	0.27	0.132
3198953	Soil	13.12	66.77	66.35	464.9	1293	89.1	10.8	611	3.23	38.6	7.8	5.3	2.0	76.6	2.66	4.20	0.26	50	1.11	0.189
3198954	Soil	9.52	70.27	76.10	330.0	1462	63.4	8.9	316	3.19	40.5	5.5	5.8	2.1	62.2	2.44	3.24	0.28	47	0.80	0.154
3198955	Soil	41.99	19.43	76.21	37.3	1055	8.5	2.2	82	2.27	57.5	2.6	2.5	0.9	30.7	0.08	10.85	0.45	125	0.02	0.077
3198956	Soil	66.49	7.10	97.19	9.5	2966	1.1	0.1	8	1.40	37.8	2.0	4.4	2.0	39.6	0.15	18.07	1.69	129	<0.01	0.042
3198957	Soil	64.26	12.63	183.31	25.2	2213	5.2	0.5	14	1.30	55.5	6.4	4.4	4.6	64.5	0.16	21.26	2.57	108	0.01	0.063
3198958	Soil	62.19	23.18	144.99	34.8	3639	7.8	1.2	21	2.05	57.1	3.9	9.5	1.4	46.0	0.16	16.90	0.64	129	<0.01	0.069
3198959	Soil	58.74	16.12	102.97	31.0	1258	6.6	0.9	18	1.67	41.7	1.9	2.5	0.7	37.9	0.19	16.17	0.37	71	0.01	0.081
3198960	Soil	38.65	16.62	76.41	42.5	926	7.9	1.3	22	1.94	48.6	1.4	1.7	0.7	30.5	0.13	11.10	0.35	87	0.01	0.069
3198961	Soil	40.05	16.56	84.43	47.5	1156	8.5	1.5	21	2.13	51.5	1.5	1.9	1.2	31.7	0.12	11.97	0.33	101	<0.01	0.071
3198962	Soil	32.33	28.62	53.99	28.9	1885	6.5	1.0	16	1.49	29.4	2.1	1.2	0.3	24.9	0.15	6.82	0.30	109	0.02	0.055
3198963	Soil	42.55	17.57	95.43	54.8	1093	8.7	1.6	27	2.79	50.8	1.7	3.4	3.7	42.7	0.13	12.48	0.39	71	<0.01	0.066
3198964	Soil	69.47	15.19	102.05	20.8	3039	4.5	0.9	8	2.76	69.9	2.6	3.2	0.2	42.3	0.16	19.02	0.50	309	<0.01	0.100
3198965	Soil	32.63	28.44	144.85	35.5	1491	6.3	1.3	18	4.77	88.0	3.5	1.8	2.0	29.8	0.19	11.60	0.29	180	<0.01	0.142
3198966	Soil	12.29	37.93	161.20	68.3	644	12.0	2.0	46	2.21	35.4	1.5	5.3	3.3	31.2	0.16	4.81	0.26	43	<0.01	0.059
3198967	Soil	19.24	34.62	104.95	80.9	620	17.8	3.1	70	2.94	49.8	1.4	2.7	1.4	31.1	0.15	4.91	0.33	63	<0.01	0.092
3198968	Soil	7.92	37.35	34.34	71.6	828	17.9	2.3	58	2.10	27.0	0.9	3.0	0.8	17.2	0.15	3.00	0.17	36	<0.01	0.048
3198969	Soil	9.02	73.91	48.79	119.4	547	24.7	3.6	60	2.87	27.3	1.5	11.7	4.3	28.5	0.29	3.70	0.27	40	<0.01	0.060
3198970	Soil	18.17	31.39	71.93	69.9	538	13.2	2.2	44	2.87	42.0	1.2	3.5	1.5	28.0	0.14	4.82	0.29	57	<0.01	0.065
3198971	Soil	17.94	34.93	84.09	75.4	703	14.9	2.6	37	3.55	45.3	1.3	5.3	2.4	38.6	0.14	5.27	0.32	65	<0.01	0.076
3198972	Soil	15.21	23.07	74.09	54.4	383	10.0	1.9	30	2.98	35.4	1.2	3.6	2.3	24.3	0.08	6.29	0.27	51	<0.01	0.051
3198973	Soil	14.13	25.57	90.18	55.8	1529	11.4	2.3	39	3.41	41.1	1.8	5.0	3.0	24.1	0.13	4.56	0.32	52	0.01	0.091
3198974	Soil	16.68	16.62	27.82	48.2	315	8.0	1.4	23	1.22	33.1	0.7	1.5	0.8	15.0	0.08	3.35	0.20	48	<0.01	0.039



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Page: 4 of 11

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
3198885	Soil	10.0	16.1	0.05	1294.2	0.006	<20	0.49	0.005	0.17	0.3	1.1	1.37	0.33	534	12.0	0.20	3.4
3198886	Soil	12.0	15.6	0.04	1792.7	0.004	<20	0.48	0.003	0.14	0.3	1.8	1.16	0.29	483	11.7	0.22	2.2
3198887	Soil	13.9	11.0	0.02	1205.7	0.010	<20	0.24	0.004	0.16	0.3	1.1	1.33	0.30	106	10.5	0.25	2.6
3198888	Soil	14.9	7.1	0.02	1862.0	0.008	<20	0.28	<0.001	0.10	0.4	0.8	0.91	0.17	133	7.9	0.20	2.3
3198889	Soil	10.8	9.7	0.01	763.3	0.004	<20	0.36	0.009	0.10	0.2	0.3	0.63	0.12	189	5.1	0.13	2.3
3198890	Soil	16.2	9.1	0.02	1654.3	0.006	<20	0.26	0.001	0.10	0.3	0.6	0.89	0.17	116	7.5	0.17	2.2
3198951	Soil	15.9	14.8	0.11	248.0	0.009	<20	0.70	<0.001	0.08	0.4	1.2	0.27	0.03	54	2.9	0.11	2.5
3198952	Soil	23.8	13.9	0.15	593.5	0.010	<20	0.64	<0.001	0.08	0.1	3.5	0.27	0.02	225	2.3	0.08	1.4
3198953	Soil	13.0	15.1	0.13	411.6	0.005	<20	0.77	0.004	0.07	0.1	2.7	0.35	0.05	239	2.9	0.12	1.9
3198954	Soil	13.3	15.4	0.12	410.5	0.005	<20	0.75	0.005	0.07	0.1	2.6	0.31	0.06	321	3.4	0.09	2.0
3198955	Soil	13.5	17.9	0.06	421.6	0.020	<20	0.57	0.001	0.08	0.2	0.9	0.65	0.11	75	10.3	0.23	4.7
3198956	Soil	10.0	7.8	0.01	401.2	0.005	<20	0.50	0.002	0.09	0.5	0.7	1.02	0.12	257	6.4	0.31	3.2
3198957	Soil	16.6	15.1	0.02	671.7	0.008	<20	0.49	0.001	0.12	0.7	1.2	0.95	0.17	433	25.3	0.40	3.4
3198958	Soil	15.7	14.5	0.02	836.4	0.008	<20	0.48	0.001	0.12	0.6	0.9	0.77	0.18	564	22.3	0.35	3.7
3198959	Soil	11.6	10.7	0.01	746.7	0.008	<20	0.33	0.007	0.10	0.5	0.7	0.67	0.15	201	13.5	0.21	3.0
3198960	Soil	13.4	10.1	0.01	446.8	0.009	<20	0.26	0.004	0.08	0.3	0.6	0.52	0.12	69	9.4	0.19	2.7
3198961	Soil	13.1	10.8	0.01	462.4	0.010	<20	0.27	0.004	0.08	0.4	0.9	0.56	0.13	85	9.4	0.18	3.1
3198962	Soil	10.3	11.2	<0.01	461.2	0.008	<20	0.50	0.004	0.05	0.4	0.7	0.24	0.07	119	6.6	0.17	2.9
3198963	Soil	10.3	10.7	0.03	1440.5	0.007	<20	0.35	0.003	0.12	0.2	1.1	0.95	0.21	276	12.3	0.24	2.7
3198964	Soil	10.9	17.7	0.01	1010.0	0.005	<20	0.36	0.002	0.13	0.4	0.5	1.06	0.23	213	20.7	0.34	3.8
3198965	Soil	11.9	20.9	0.02	1742.2	0.006	<20	0.35	0.003	0.10	0.2	1.4	0.77	0.24	366	13.6	0.21	2.2
3198966	Soil	27.2	15.1	0.07	453.6	0.004	<20	0.56	0.002	0.07	<0.1	1.8	0.29	0.06	156	3.8	0.13	2.7
3198967	Soil	13.0	15.0	0.03	350.1	0.004	<20	0.53	0.002	0.10	0.2	1.2	0.59	0.11	75	3.8	0.16	3.0
3198968	Soil	15.0	10.6	0.05	152.2	0.003	<20	0.51	0.003	0.05	<0.1	1.0	0.18	0.03	61	2.1	0.07	2.0
3198969	Soil	29.7	14.4	0.14	197.7	0.003	<20	0.67	<0.001	0.06	<0.1	2.3	0.18	0.03	112	3.3	0.11	2.4
3198970	Soil	15.6	12.5	0.03	278.9	0.007	<20	0.51	0.002	0.08	0.2	1.1	0.39	0.06	69	4.7	0.16	3.0
3198971	Soil	15.9	16.7	0.04	419.0	0.007	<20	0.54	0.001	0.09	0.2	1.6	0.46	0.09	112	5.7	0.18	3.4
3198972	Soil	12.6	10.6	0.02	279.2	0.005	<20	0.49	0.003	0.07	0.1	1.2	0.37	0.06	103	5.5	0.15	2.8
3198973	Soil	14.2	15.8	0.06	440.8	0.011	<20	0.71	0.003	0.07	0.5	1.3	0.52	0.10	305	4.6	0.14	4.5
3198974	Soil	24.7	6.2	<0.01	184.2	0.009	<20	0.23	0.002	0.03	0.2	0.7	0.22	0.02	15	1.5	0.10	2.2



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

Project:

MacMillan Pass

Report Date:

September 07, 2018

Page:

5 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3198975	Soil	27.87	23.48	93.03	67.5	1821	13.2	2.3	38	3.84	47.6	1.3	3.6	4.2	40.5	0.16	7.65	0.46	64	0.01	0.099
3198976	Soil	38.11	23.34	43.37	35.3	4566	7.5	1.4	21	1.31	25.0	1.6	4.0	0.9	22.5	0.13	4.36	0.45	64	<0.01	0.042
3198977	Soil	26.76	30.88	71.48	78.1	1001	14.2	2.4	40	3.31	43.8	1.6	3.6	3.7	43.4	0.12	6.50	0.31	49	<0.01	0.075
3198978	Soil	6.14	35.76	23.01	25.8	6523	7.4	3.6	414	2.54	17.5	4.7	2.4	0.1	25.8	0.08	1.66	0.15	24	0.40	0.104
3198979	Soil	5.55	37.90	55.95	110.4	2099	45.7	4.1	397	2.09	24.8	14.9	4.1	1.2	77.2	1.20	1.86	0.28	42	0.81	0.114
3198980	Soil	26.17	76.01	132.64	185.4	2500	22.2	3.4	56	5.75	73.9	2.3	3.4	2.9	69.2	0.19	10.81	0.33	73	0.19	0.414
3198981	Rock Pulp	12.07	153.55	259.30	193.6	103	74.7	49.4	244	1.47	8.7	0.4	36.3	2.7	26.4	0.50	0.17	0.15	21	0.53	0.050
3198982	Soil	13.09	120.84	74.00	281.5	2167	58.1	10.8	162	4.90	46.9	3.0	7.4	4.2	35.8	0.76	5.11	0.35	43	0.18	0.331
3198983	Soil	82.67	13.59	140.91	18.8	2852	3.9	0.9	19	2.31	47.3	4.2	4.8	1.1	37.4	0.13	19.27	1.29	134	0.01	0.070
3198984	Soil	75.71	8.69	130.09	16.4	1364	2.8	0.6	11	2.10	48.8	1.3	4.5	1.9	24.2	0.15	22.80	0.91	112	<0.01	0.043
3198985	Soil	37.94	10.12	77.14	25.0	761	2.9	0.5	11	1.19	44.7	2.1	2.9	0.6	27.4	0.09	11.81	0.21	65	<0.01	0.042
3198986	Soil	61.10	15.74	82.64	45.9	1720	6.4	1.3	23	2.73	80.5	3.3	5.4	1.7	59.6	0.15	13.84	0.38	141	0.01	0.101
3198987	Soil	40.58	12.38	59.95	35.0	921	5.3	0.9	16	1.47	40.4	2.4	1.9	1.2	51.9	0.10	6.52	0.31	73	0.01	0.072
3198988	Soil	43.32	16.52	98.04	60.6	1053	8.8	1.4	28	2.10	58.6	2.0	3.7	1.5	50.5	0.12	9.76	0.39	90	0.01	0.090
3198989	Soil	56.83	16.17	80.22	41.5	1102	7.6	0.9	20	1.94	53.0	2.5	3.5	3.4	39.5	0.12	10.58	0.35	61	<0.01	0.064
3198990	Soil	27.16	7.17	21.10	27.2	743	3.8	0.4	13	0.74	21.0	0.8	0.9	0.2	9.6	0.07	6.51	0.18	35	<0.01	0.031
3198991	Soil	22.37	8.84	26.62	24.3	720	7.6	0.9	15	1.18	27.3	0.6	1.2	<0.1	9.8	0.06	4.11	0.14	50	0.01	0.036
3198992	Soil	21.10	17.40	99.28	55.6	394	7.3	1.1	23	2.25	41.6	1.2	3.7	3.4	16.7	0.07	9.34	0.31	45	<0.01	0.042
3198993	Soil	36.39	32.95	113.37	67.5	1757	11.1	1.6	27	6.35	130.0	2.0	7.4	5.7	14.9	0.07	12.74	0.57	106	<0.01	0.108
3198994	Soil	20.40	34.11	67.85	58.0	485	8.1	1.4	24	6.19	56.3	1.4	4.2	4.6	11.6	0.05	9.79	0.37	90	<0.01	0.122
3198995	Soil	26.24	21.43	36.55	64.5	735	9.3	1.3	27	1.67	41.6	2.2	6.7	2.6	36.6	0.07	8.22	0.33	38	<0.01	0.060
3198996	Soil	32.81	15.47	22.72	42.8	584	6.0	1.1	19	1.38	29.8	0.9	3.5	2.1	20.4	0.05	7.46	0.32	63	<0.01	0.039
3198997	Soil	29.16	17.73	38.01	52.2	334	8.2	1.4	26	2.31	38.3	1.0	1.1	1.5	19.8	0.06	6.05	0.33	93	0.01	0.064
3198998	Soil	35.22	19.84	77.89	67.0	870	13.6	2.0	31	2.81	44.8	1.1	3.7	2.1	22.0	0.10	11.01	0.47	59	<0.01	0.069
3198999	Soil	30.85	18.79	46.67	67.9	558	12.7	1.8	29	2.67	46.4	1.0	2.0	1.7	16.5	0.07	8.67	0.44	78	<0.01	0.057
3199000	Soil	2.05	70.59	26.34	31.6	1738	13.9	0.7	6	36.31	12.7	24.1	1.5	0.9	3.7	0.60	0.82	0.16	3728	<0.01	0.226
3199774	Soil	18.83	44.33	123.49	41.1	1943	9.4	1.6	58	2.76	33.7	1.9	10.3	3.2	30.3	0.09	13.51	0.45	37	0.01	0.083
3199775	Soil	3.88	32.84	36.36	38.5	592	8.1	1.5	28	1.18	10.5	0.8	2.6	0.1	29.7	0.18	3.11	0.20	24	0.03	0.080
3199776	Soil	11.60	99.64	105.86	212.2	1282	42.8	6.6	90	5.75	89.3	1.5	7.9	5.7	78.7	0.35	9.10	0.50	54	0.02	0.183
3199777	Soil	12.99	118.06	141.16	201.8	2406	36.9	4.9	62	6.06	135.5	1.9	27.9	3.5	223.3	0.48	12.10	0.66	55	0.03	0.236



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

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Page: 5 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3198975	Soil	12.7	14.9	0.06	710.3	0.012	<20	0.61	0.006	0.12	0.3	1.4	1.24	0.21	175	7.2	0.24
3198976	Soil	16.7	11.5	0.01	483.4	0.010	<20	0.41	0.002	0.05	0.1	0.8	0.72	0.02	376	3.1	0.23
3198977	Soil	14.5	13.2	0.04	937.1	0.008	<20	0.43	0.002	0.10	0.1	1.8	0.87	0.15	222	7.0	0.23
3198978	Soil	4.8	9.0	0.07	882.0	0.004	<20	0.52	0.020	0.04	<0.1	0.6	0.67	0.09	636	3.8	0.06
3198979	Soil	10.3	15.4	0.11	486.6	0.004	<20	0.76	<0.001	0.05	0.2	1.9	0.39	0.07	320	3.5	0.08
3198980	Soil	13.7	19.7	0.03	612.1	0.008	<20	0.52	0.004	0.13	0.5	1.8	0.77	0.19	72	5.5	0.16
3198981	Rock Pulp	24.4	31.4	0.44	58.2	0.064	<20	0.76	0.080	0.11	0.1	2.9	0.08	0.04	19	<0.1	<0.02
3198982	Soil	19.9	17.5	0.10	247.2	0.006	<20	0.96	0.001	0.06	0.3	2.0	0.29	0.03	232	5.0	0.17
3198983	Soil	13.3	15.9	0.03	836.4	0.007	<20	0.64	0.007	0.19	0.6	0.7	1.96	0.32	608	32.0	0.41
3198984	Soil	10.9	8.1	0.02	568.5	0.012	<20	0.29	0.002	0.19	0.6	0.8	1.41	0.34	108	19.2	0.22
3198985	Soil	14.7	7.3	0.01	1225.0	0.006	<20	0.26	0.004	0.08	0.3	0.8	0.69	0.12	153	7.8	0.14
3198986	Soil	13.5	16.8	0.03	1268.8	0.011	<20	0.41	0.003	0.19	0.3	1.2	1.29	0.29	328	17.3	0.28
3198987	Soil	14.1	9.5	0.02	1026.3	0.010	<20	0.35	0.007	0.11	0.3	0.8	0.74	0.15	122	9.4	0.18
3198988	Soil	13.6	11.6	0.03	869.2	0.011	<20	0.45	0.005	0.13	0.3	1.2	0.91	0.19	189	9.4	0.16
3198989	Soil	17.8	11.9	0.03	1720.1	0.009	<20	0.38	<0.001	0.10	0.2	1.0	0.61	0.15	342	9.2	0.26
3198990	Soil	11.5	4.0	<0.01	183.1	0.004	<20	0.14	<0.001	0.04	0.2	0.3	0.18	0.03	59	2.4	0.18
3198991	Soil	7.4	10.2	<0.01	146.6	0.008	<20	0.23	0.014	0.04	0.2	0.2	0.14	<0.02	40	2.0	0.12
3198992	Soil	21.1	7.1	0.01	823.7	0.009	<20	0.19	0.001	0.04	0.1	0.7	0.25	0.06	126	7.4	0.19
3198993	Soil	18.0	12.5	0.01	236.4	0.013	<20	0.40	0.001	0.05	0.2	1.0	0.45	<0.02	466	16.6	0.54
3198994	Soil	19.5	9.7	<0.01	170.4	0.010	<20	0.29	<0.001	0.03	0.1	0.8	0.22	<0.02	205	8.9	0.27
3198995	Soil	22.1	7.4	<0.01	283.0	0.005	<20	0.19	0.001	0.04	0.1	0.7	0.44	0.04	111	4.0	0.21
3198996	Soil	18.4	5.9	<0.01	480.8	0.011	<20	0.19	0.002	0.03	0.2	0.5	0.39	0.02	92	2.7	0.19
3198997	Soil	19.1	6.8	<0.01	322.1	0.011	<20	0.21	0.002	0.05	0.3	0.6	0.36	0.04	47	3.3	0.17
3198998	Soil	18.2	10.3	0.03	345.2	0.010	<20	0.27	0.003	0.06	0.2	0.7	0.65	0.08	228	6.9	0.23
3198999	Soil	19.3	9.6	0.01	189.9	0.013	<20	0.24	0.001	0.04	0.2	0.6	0.40	0.03	111	4.6	0.21
3199000	Soil	4.3	71.4	<0.01	42.0	0.008	<20	0.34	0.002	<0.01	<0.1	1.2	0.81	0.23	202	2.8	0.03
3199774	Soil	30.9	18.5	0.07	197.0	0.006	<20	0.54	0.002	0.06	<0.1	1.1	0.39	0.06	277	8.0	0.21
3199775	Soil	11.0	7.7	0.03	121.4	0.006	<20	0.46	0.020	0.03	<0.1	0.5	0.10	0.05	67	1.7	0.05
3199776	Soil	32.9	21.2	0.23	301.3	0.003	<20	0.86	0.003	0.08	<0.1	3.2	0.20	0.09	126	5.8	0.19
3199777	Soil	29.4	24.1	0.18	451.5	0.003	<20	1.06	0.002	0.08	<0.1	3.0	0.27	0.12	321	7.1	0.20



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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

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Report Date:

September 07, 2018

Page:

6 of 11

Part:

1 of 2

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WHI18000524.1

	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
3199778	Soil	11.89	92.30	126.59	163.4	1697	33.5	5.3	77	5.14	69.5	1.7	10.7	4.2	59.9	0.25	7.72	0.53	56	0.01	0.164
3199779	Soil	17.90	488.74	139.42	1487.0	1193	303.7	81.2	6089	13.30	262.1	8.9	21.4	6.0	47.3	11.21	11.28	0.41	94	0.04	0.299
3199780	Soil	14.12	371.58	394.37	1742.8	1768	277.4	69.1	5089	12.18	350.9	9.9	53.8	7.0	52.7	15.40	11.33	0.31	83	0.04	0.265
3199781	Soil	19.70	426.21	87.88	926.1	1240	426.4	99.5	3667	10.79	46.1	6.9	4.9	5.2	42.0	19.94	6.23	0.24	105	0.22	0.250
3199782	Soil	8.84	139.82	40.13	348.2	607	143.2	33.0	1102	3.82	23.4	2.8	3.1	1.5	46.8	5.03	2.94	0.15	42	0.55	0.150
3199783	Soil	9.24	108.39	66.42	301.2	1261	46.8	8.9	256	5.06	63.9	3.5	5.9	3.4	59.3	1.05	4.83	0.42	58	0.29	0.439
3199784	Soil	14.65	173.90	77.31	413.3	1916	78.1	19.3	747	5.94	80.3	3.8	9.8	4.2	51.6	3.32	8.25	0.54	54	0.37	0.255
3199785	Soil	48.40	98.43	394.85	369.5	4743	40.9	8.6	213	4.70	112.3	9.9	2.7	3.5	54.1	0.87	13.67	0.44	131	0.66	0.499
3199786	Soil	12.58	61.21	128.01	24.0	2130	5.0	0.6	14	1.90	77.8	3.0	8.0	3.6	35.9	0.07	8.14	0.34	67	<0.01	0.070
3199787	Soil	13.27	51.50	143.19	18.1	1814	4.5	0.5	7	1.84	86.6	2.1	10.0	5.1	34.4	0.05	11.30	0.41	50	<0.01	0.049
3199788	Soil	12.62	46.76	175.58	19.7	1066	3.1	0.4	7	2.21	75.3	2.2	9.5	7.0	28.8	0.06	9.30	0.34	61	<0.01	0.058
3199789	Soil	24.28	19.63	166.67	9.6	1313	1.4	0.2	5	1.26	35.7	1.9	6.7	2.7	17.2	0.02	9.62	0.41	35	<0.01	0.028
3199790	Soil	21.75	27.01	387.28	22.4	1993	2.0	0.3	10	1.39	58.3	2.1	8.4	5.3	19.7	0.05	11.92	0.38	33	0.01	0.032
3199791	Soil	17.37	34.60	551.84	37.1	1441	3.8	0.4	13	1.84	76.2	1.7	10.7	5.0	29.2	0.08	10.81	0.58	48	<0.01	0.055
3199792	Soil	12.18	26.85	392.84	34.6	1330	4.0	0.6	15	1.41	96.0	1.2	9.5	2.9	18.5	0.11	9.28	0.32	38	<0.01	0.042
3199793	Soil	12.73	35.57	688.22	40.4	1389	3.9	0.5	17	1.79	114.5	1.8	11.5	5.3	26.0	0.09	8.19	0.35	46	<0.01	0.049
3199794	Soil	17.02	44.24	1219.30	71.6	2273	5.3	0.6	18	2.34	142.3	2.6	8.9	7.9	37.8	0.16	10.97	0.46	55	<0.01	0.068
3199795	Soil	15.13	28.95	354.73	32.4	672	3.6	0.5	16	1.58	98.6	1.7	8.4	5.4	21.9	0.09	6.31	0.37	47	0.01	0.044
3199796	Soil	11.63	28.13	487.31	32.2	1117	3.0	0.4	12	1.34	52.8	2.1	4.6	5.2	17.9	0.04	8.00	0.27	33	<0.01	0.037
3199797	Soil	24.07	52.62	329.05	52.8	1872	7.0	1.1	21	3.28	77.8	5.7	7.4	8.5	26.4	0.10	9.07	0.54	72	<0.01	0.067
3199798	Soil	25.52	40.01	878.80	59.1	3887	6.3	0.7	20	2.35	52.9	3.3	5.5	8.5	31.4	0.07	10.20	0.45	49	<0.01	0.063
3199799	Soil	56.41	55.14	139.01	52.0	1489	7.4	0.5	19	10.30	255.7	3.4	9.6	17.0	73.1	0.09	11.89	0.75	126	0.03	0.298
3199800	Rock Pulp	0.68	26.75	2.53	22.6	30	19.2	6.3	248	1.43	0.9	0.5	0.4	3.4	31.6	0.04	0.06	0.04	22	0.62	0.065
3199801	Soil	39.13	38.69	2043.86	81.8	5315	8.9	1.6	24	3.38	148.6	4.5	9.7	7.3	40.9	0.18	19.31	0.45	83	<0.01	0.119
3199802	Soil	15.74	16.67	233.14	14.8	3710	3.0	0.3	16	2.14	62.1	2.8	28.2	8.4	39.6	0.06	11.83	0.71	50	0.01	0.072
3199803	Soil	18.62	38.78	510.07	57.6	2128	7.7	1.2	17	2.92	76.5	2.4	2.4	9.9	50.4	0.20	9.51	0.52	57	<0.01	0.092
3199804	Soil	13.12	37.09	292.17	40.3	1128	7.4	1.3	20	2.61	45.1	1.8	3.2	7.7	33.7	0.08	7.21	0.34	52	<0.01	0.072
3199805	Soil	14.11	35.73	243.45	47.7	1306	7.8	1.4	21	2.43	43.8	1.5	4.5	5.2	29.9	0.09	7.32	0.31	50	<0.01	0.061
3199806	Soil	12.15	56.69	161.85	61.2	1387	11.2	1.8	27	2.59	35.8	1.9	7.2	1.7	39.9	0.09	4.94	0.34	57	0.01	0.079
3199807	Soil	10.35	46.15	109.84	56.9	617	9.7	1.7	20	2.04	31.8	1.1	4.5	1.6	32.5	0.16	4.26	0.27	51	<0.01	0.067



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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

Project: MacMillan Pass
Report Date: September 07, 2018

Page: 6 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199778	Soil	32.3	22.3	0.13	342.7	0.004	<20	0.83	0.003	0.10	<0.1	2.9	0.26	0.09	267	6.2	0.20	3.2
3199779	Soil	30.1	56.8	0.13	449.7	0.003	<20	1.54	0.003	0.11	<0.1	10.8	0.36	0.08	240	4.6	0.16	3.0
3199780	Soil	31.6	55.9	0.13	510.0	0.003	<20	1.38	0.003	0.10	<0.1	10.8	0.32	0.06	370	3.7	0.16	3.1
3199781	Soil	35.6	54.9	0.11	486.3	0.003	<20	1.27	0.003	0.06	<0.1	14.1	0.53	0.03	318	4.5	0.10	1.8
3199782	Soil	15.5	21.4	0.07	363.9	0.007	<20	0.89	0.017	0.05	<0.1	4.2	0.32	0.04	192	2.3	0.04	1.9
3199783	Soil	20.0	16.3	0.08	374.0	0.005	<20	0.89	0.001	0.09	0.2	1.7	0.29	<0.02	116	4.3	0.16	2.1
3199784	Soil	25.4	14.5	0.11	408.4	0.005	<20	0.66	0.002	0.08	0.2	3.6	0.43	0.02	419	4.1	0.16	1.7
3199785	Soil	31.4	16.7	0.04	444.1	0.006	<20	0.71	0.006	0.17	0.2	2.0	1.33	0.12	2128	13.7	0.21	1.7
3199786	Soil	37.1	18.1	<0.01	619.6	0.003	<20	0.36	0.004	0.04	<0.1	1.9	0.38	0.03	150	7.0	0.15	2.7
3199787	Soil	39.1	14.9	<0.01	418.5	0.003	<20	0.36	0.002	0.04	<0.1	1.9	0.26	0.03	254	7.2	0.16	2.5
3199788	Soil	43.7	12.5	<0.01	395.8	0.002	<20	0.32	<0.001	0.04	<0.1	1.8	0.22	0.03	221	5.8	0.17	1.7
3199789	Soil	45.3	6.0	0.01	194.7	0.003	<20	0.37	0.001	0.04	<0.1	0.6	0.42	0.02	217	4.8	0.14	1.7
3199790	Soil	43.4	6.5	<0.01	894.2	0.003	<20	0.39	0.003	0.04	<0.1	0.9	0.39	0.05	436	6.1	0.13	1.7
3199791	Soil	36.1	11.2	0.01	984.8	0.004	<20	0.40	0.003	0.06	<0.1	1.1	0.47	0.07	327	5.5	0.14	2.5
3199792	Soil	32.3	9.5	0.02	1134.9	0.005	<20	0.35	0.002	0.05	<0.1	1.0	0.30	0.07	229	4.0	0.12	1.7
3199793	Soil	25.6	10.6	0.02	2842.2	0.004	<20	0.41	0.003	0.08	<0.1	1.4	0.39	0.13	538	4.8	0.13	1.9
3199794	Soil	26.6	14.4	0.02	3326.3	0.004	<20	0.44	0.003	0.12	0.1	2.3	0.65	0.19	1099	8.3	0.17	2.2
3199795	Soil	30.7	10.0	0.02	317.8	0.004	<20	0.54	0.006	0.07	<0.1	1.5	0.40	0.04	192	4.3	0.11	2.6
3199796	Soil	32.0	8.2	<0.01	839.4	0.003	<20	0.24	0.002	0.06	<0.1	1.0	0.34	0.06	356	4.6	0.13	1.5
3199797	Soil	29.3	18.3	0.02	476.8	0.006	<20	0.62	0.002	0.10	0.1	2.3	0.66	0.06	460	10.2	0.19	3.5
3199798	Soil	29.9	17.2	0.04	1438.8	0.003	<20	0.64	0.004	0.13	<0.1	2.2	0.83	0.17	1037	10.1	0.22	2.2
3199799	Soil	22.0	54.2	0.06	487.8	0.003	<20	0.90	0.002	0.10	0.1	3.2	0.79	0.15	234	25.6	0.41	5.8
3199800	Rock Pulp	19.4	29.1	0.45	59.4	0.077	<20	0.75	0.075	0.11	<0.1	3.0	0.08	<0.02	15	<0.1	<0.02	2.5
3199801	Soil	23.0	22.7	0.03	2213.5	0.006	<20	0.57	0.003	0.15	0.2	2.9	0.98	0.24	1378	12.8	0.25	3.4
3199802	Soil	55.2	18.6	0.02	553.2	0.002	<20	0.57	0.004	0.12	<0.1	1.6	0.55	0.20	245	5.2	0.35	2.6
3199803	Soil	27.0	20.1	0.07	1718.7	0.003	<20	0.54	0.005	0.17	<0.1	2.6	0.77	0.29	1196	10.8	0.30	3.9
3199804	Soil	27.5	17.4	0.07	1567.7	0.003	<20	0.51	0.003	0.10	<0.1	2.3	0.42	0.15	329	6.7	0.16	2.6
3199805	Soil	34.6	17.5	0.09	454.3	0.004	<20	0.49	0.003	0.08	<0.1	1.8	0.38	0.09	249	6.5	0.14	2.7
3199806	Soil	23.7	19.0	0.08	399.7	0.004	<20	0.71	0.004	0.09	<0.1	2.0	0.35	0.07	232	6.1	0.15	3.3
3199807	Soil	28.1	14.4	0.04	278.2	0.003	<20	0.44	0.004	0.07	<0.1	1.3	0.24	0.05	67	4.0	0.13	2.8



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

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Report Date:

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Page:

7 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199808	Soil	10.64	48.59	109.87	61.3	802	11.6	2.1	25	2.29	34.8	1.1	4.5	2.1	33.4	0.12	4.41	0.30	53	<0.01	0.082
3199809	Soil	8.27	97.94	92.81	208.6	816	69.1	13.7	291	4.45	45.1	2.0	5.5	2.4	37.1	1.04	3.57	0.25	51	0.30	0.090
3199810	Soil	4.75	31.64	43.60	52.2	732	10.7	3.1	182	1.83	18.6	1.4	3.6	0.5	25.5	0.22	2.15	0.17	29	0.27	0.063
3199811	Soil	4.00	57.87	62.98	76.7	819	18.8	6.8	246	1.86	18.0	3.3	6.0	1.4	34.2	0.60	2.12	0.23	31	0.30	0.065
3199812	Soil	32.44	85.95	78.22	286.0	1015	110.0	8.9	895	4.93	75.1	5.3	7.1	3.5	37.8	1.99	5.68	0.27	111	0.28	0.099
3199813	Soil	4.22	20.93	14.60	57.0	528	19.9	2.6	322	0.95	10.0	6.2	2.3	0.4	22.3	0.51	1.40	0.07	21	0.44	0.068
3199814	Soil	12.49	79.81	77.34	242.7	1656	76.0	9.4	771	3.06	36.7	17.7	7.1	1.3	46.7	1.15	3.67	0.25	51	0.63	0.117
3199815	Soil	17.82	44.17	117.06	564.7	1458	97.2	16.5	676	4.38	59.2	5.2	7.0	2.3	62.7	1.71	4.21	0.35	95	0.70	0.185
3199816	Soil	10.42	40.78	51.31	188.1	291	35.2	16.3	495	3.78	36.0	2.7	1.9	3.3	50.6	0.75	3.42	0.35	69	0.48	0.261
3199817	Soil	11.56	39.05	66.89	100.2	527	22.6	4.6	60	2.62	43.9	1.6	2.6	1.0	25.9	0.30	3.54	0.41	48	0.13	0.239
3199818	Soil	33.81	9.71	57.19	13.4	670	3.0	0.6	12	1.08	25.2	3.4	1.9	0.4	27.0	0.08	7.91	0.28	44	0.02	0.056
3199819	Soil	62.78	14.88	95.56	33.6	1253	5.2	0.9	22	2.01	55.2	4.6	4.1	0.7	48.0	0.11	14.04	0.52	110	0.01	0.084
3199820	Rock Pulp	0.70	25.20	1.93	21.3	25	17.1	6.7	241	1.43	0.6	0.4	0.9	2.7	28.2	0.04	0.06	0.03	23	0.63	0.055
3199821	Soil	35.97	18.93	51.63	38.8	1869	8.3	1.6	27	1.74	39.0	2.3	2.6	0.8	24.2	0.11	9.35	0.32	92	0.01	0.066
3199822	Soil	30.14	23.97	89.83	40.8	787	7.7	2.2	44	3.15	68.1	2.0	3.3	0.2	23.0	0.11	8.25	0.36	98	0.01	0.115
3199823	Soil	29.82	17.36	172.22	29.4	1950	5.3	1.4	26	2.56	56.7	1.5	2.5	0.6	20.8	0.10	12.92	0.22	67	0.01	0.106
3199824	Soil	25.19	19.10	264.99	37.6	1657	4.1	1.1	15	2.50	65.2	2.6	3.3	0.6	26.6	0.07	11.97	0.27	58	<0.01	0.084
3199825	Soil	35.89	25.20	347.96	57.6	1701	7.7	1.6	28	3.74	86.6	3.6	0.5	6.9	41.6	0.10	13.74	0.38	89	<0.01	0.123
3199826	Soil	36.35	29.72	129.87	61.7	680	6.5	1.8	28	4.81	108.4	1.2	2.9	1.1	19.3	0.12	10.27	0.31	120	<0.01	0.148
3199827	Soil	31.29	26.25	119.59	64.3	1304	11.2	2.1	33	2.70	63.7	2.6	3.1	3.9	42.2	0.14	8.34	0.34	64	<0.01	0.077
3199828	Soil	19.79	11.80	82.16	43.4	859	5.5	1.0	17	1.65	40.9	1.1	2.0	1.8	24.8	0.08	6.18	0.22	45	<0.01	0.045
3199829	Soil	47.08	24.68	123.02	59.6	1502	11.5	2.2	45	3.97	116.6	2.1	4.1	4.1	97.3	0.16	11.13	0.50	85	0.02	0.149
3199830	Soil	27.04	11.68	116.30	27.2	907	3.6	0.6	11	0.88	23.1	0.9	3.4	2.2	23.7	0.09	6.64	0.32	30	<0.01	0.033
3199831	Soil	38.54	22.29	123.79	48.3	1364	9.1	1.4	27	1.91	45.4	1.9	2.6	5.3	62.4	0.13	7.60	0.38	53	0.02	0.069
3199832	Soil	32.88	34.94	201.11	45.1	3849	9.8	2.0	26	3.16	56.5	2.8	6.2	1.8	55.1	0.16	7.32	0.52	56	0.01	0.122
3199833	Soil	17.98	18.47	179.31	46.9	709	7.7	1.7	23	2.75	41.9	1.4	2.5	3.1	34.7	0.09	5.18	0.35	64	<0.01	0.065
3199834	Soil	13.55	13.18	37.79	41.6	99	5.9	1.0	20	1.45	35.1	1.2	7.3	2.6	23.9	0.06	4.50	0.19	52	<0.01	0.046
3199835	Soil	14.03	22.77	103.22	29.5	1777	4.8	0.9	17	1.52	29.4	2.0	3.7	0.3	40.9	0.09	3.84	0.29	43	0.01	0.082
3199836	Soil	23.13	29.42	196.23	36.0	2008	8.2	1.6	26	2.67	71.8	2.0	14.9	0.7	43.2	0.17	4.74	0.45	61	0.02	0.141
3199837	Soil	68.61	116.61	100.01	478.9	546	117.6	5.9	547	5.70	90.4	6.9	5.0	2.8	20.7	0.91	16.10	0.46	154	<0.01	0.153



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Page: 7 of 11

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
3199808	Soil	27.3	15.8	0.05	303.3	0.004	<20	0.46	0.003	0.07	<0.1	1.6	0.24	0.05	87	4.3	0.13	3.2
3199809	Soil	20.4	24.3	0.09	462.3	0.003	<20	0.71	0.003	0.07	<0.1	3.6	0.26	0.05	163	3.7	0.10	2.5
3199810	Soil	8.8	9.9	0.04	369.9	0.007	<20	0.48	0.018	0.05	<0.1	1.4	0.15	0.05	120	2.6	0.08	2.2
3199811	Soil	14.2	13.8	0.06	446.4	0.005	<20	0.62	0.014	0.06	<0.1	2.3	0.20	0.04	145	2.4	0.07	2.6
3199812	Soil	17.7	23.1	0.08	554.1	0.004	<20	0.84	0.005	0.07	0.1	3.6	0.54	0.03	268	4.0	0.14	2.4
3199813	Soil	4.1	6.2	0.06	322.6	0.008	<20	0.40	0.024	0.03	<0.1	1.0	0.16	0.05	105	1.4	0.03	1.4
3199814	Soil	13.2	19.2	0.09	460.6	0.006	<20	1.02	0.013	0.07	<0.1	2.8	0.42	0.05	317	3.3	0.11	3.2
3199815	Soil	16.8	25.8	0.12	423.4	0.005	<20	0.96	0.004	0.11	0.1	3.9	0.53	0.04	347	2.7	0.16	3.1
3199816	Soil	17.9	22.4	0.18	346.8	0.016	<20	0.89	0.002	0.10	0.3	2.2	0.32	0.02	25	2.6	0.12	3.7
3199817	Soil	16.4	8.2	0.02	155.5	0.010	<20	0.37	0.003	0.05	0.2	0.9	0.22	0.02	21	3.0	0.11	2.7
3199818	Soil	6.7	8.9	0.02	824.8	0.014	<20	0.26	0.018	0.09	0.3	0.8	0.50	0.12	199	6.8	0.20	3.4
3199819	Soil	13.9	12.1	0.02	1157.1	0.012	<20	0.54	0.006	0.14	0.4	0.8	0.93	0.19	207	13.2	0.26	4.2
3199820	Rock Pulp	14.9	28.4	0.46	51.6	0.070	<20	0.74	0.078	0.12	<0.1	2.9	0.06	<0.02	8	<0.1	<0.02	2.7
3199821	Soil	13.8	12.4	0.01	685.5	0.014	<20	0.44	0.010	0.07	0.3	1.0	0.53	0.07	280	7.2	0.22	3.3
3199822	Soil	10.3	13.3	0.03	580.0	0.012	<20	0.58	0.007	0.09	0.2	0.6	0.78	0.14	241	8.8	0.17	4.0
3199823	Soil	8.2	10.0	0.02	1556.3	0.009	<20	0.40	0.011	0.08	0.3	0.6	0.70	0.16	402	10.4	0.18	2.5
3199824	Soil	13.0	9.8	0.02	2227.9	0.006	<20	0.38	0.006	0.07	0.2	0.9	0.61	0.15	510	13.4	0.18	2.2
3199825	Soil	12.4	13.8	0.03	2447.1	0.009	<20	0.42	0.003	0.16	0.3	2.3	0.96	0.28	501	20.1	0.24	2.6
3199826	Soil	13.2	12.7	<0.01	360.3	0.010	<20	0.41	0.005	0.06	0.3	0.8	0.35	0.05	84	13.3	0.26	4.2
3199827	Soil	16.7	16.3	0.04	982.7	0.007	<20	0.50	0.002	0.09	0.2	1.6	0.52	0.13	205	8.7	0.17	3.9
3199828	Soil	19.8	7.0	<0.01	1635.9	0.004	<20	0.20	<0.001	0.06	0.1	0.8	0.35	0.10	88	4.8	0.13	2.2
3199829	Soil	19.8	21.0	0.05	591.2	0.010	<20	0.60	0.004	0.10	0.2	1.4	0.83	0.15	188	10.7	0.32	4.0
3199830	Soil	32.8	4.5	<0.01	302.5	0.003	<20	0.17	0.001	0.07	<0.1	0.6	0.85	0.08	87	2.9	0.15	1.4
3199831	Soil	28.8	14.3	0.03	459.5	0.007	<20	0.32	0.001	0.08	0.1	1.3	0.75	0.08	218	5.8	0.21	2.9
3199832	Soil	18.7	19.0	0.04	747.0	0.005	<20	0.56	0.003	0.10	0.2	1.4	0.87	0.15	687	9.1	0.24	3.3
3199833	Soil	17.7	11.9	0.02	355.0	0.013	<20	0.44	0.003	0.07	0.1	1.3	0.44	0.09	104	4.4	0.15	4.3
3199834	Soil	23.0	5.7	<0.01	214.3	0.006	<20	0.20	<0.001	0.03	0.1	0.9	0.18	0.02	14	2.2	0.10	2.6
3199835	Soil	16.6	9.5	0.01	576.6	0.005	<20	0.28	0.008	0.07	0.1	0.8	0.49	0.11	190	4.1	0.12	2.5
3199836	Soil	12.1	16.1	0.03	707.1	0.008	<20	0.53	0.006	0.08	0.2	0.9	0.87	0.09	658	8.9	0.16	3.6
3199837	Soil	16.6	21.0	0.02	220.5	0.003	<20	0.44	<0.001	0.04	0.2	2.2	0.90	0.05	158	8.8	0.17	1.4



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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

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MacMillan Pass

Report Date:

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Page:

8 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199838	Soil	26.11	62.47	52.31	304.3	1112	89.7	9.1	593	3.84	51.0	9.1	3.8	2.3	44.7	1.58	7.66	0.31	61	0.38	0.112
3199839	Soil	12.51	61.87	40.49	269.8	1256	107.0	8.3	338	2.40	27.4	15.3	4.5	2.5	54.2	3.72	5.00	0.29	44	0.58	0.130
3199840	Soil	9.37	48.31	33.68	294.5	985	102.4	7.6	418	2.13	26.1	11.9	2.7	2.3	51.6	5.47	4.17	0.24	34	0.45	0.111
3199841	Soil	2.57	22.55	6.89	31.5	713	27.7	1.9	414	0.77	6.4	33.4	0.5	0.1	65.7	0.87	1.15	0.46	13	1.52	0.132
3199842	Soil	13.12	76.06	66.86	170.6	522	28.8	3.7	165	3.99	56.4	3.0	7.5	2.8	45.3	0.34	7.17	0.33	64	0.21	0.503
3199843	Soil	12.57	75.98	47.20	127.6	1416	32.4	3.5	79	3.74	66.7	3.1	5.3	2.1	38.1	0.35	7.24	0.38	51	0.18	0.385
3199844	Soil	11.58	70.42	65.09	216.4	371	31.9	8.0	221	3.97	52.8	3.4	2.9	1.3	37.0	0.80	5.76	0.45	49	0.19	0.203
3199845	Soil	12.46	107.17	44.79	326.9	1676	53.4	12.9	279	4.36	50.3	5.4	7.4	4.2	56.2	1.72	6.58	0.67	45	0.85	0.353
3199846	Soil	35.81	13.39	77.09	32.5	656	5.4	0.9	23	1.26	49.2	1.7	2.4	0.7	28.4	0.06	15.13	0.47	106	0.01	0.049
3199847	Soil	22.09	22.21	80.03	47.6	1101	8.6	1.4	43	1.62	42.7	3.6	4.9	1.4	40.3	0.09	15.49	1.11	71	0.02	0.068
3199848	Soil	30.07	14.75	93.85	30.7	1494	5.9	0.8	25	1.32	42.1	4.0	4.5	1.0	41.6	0.09	17.56	1.72	79	0.01	0.071
3199849	Soil	19.70	8.76	106.95	20.5	1102	2.7	0.3	14	0.78	30.4	5.8	2.7	1.4	53.6	0.05	9.26	3.57	51	0.01	0.065
3199850	Soil	53.70	11.19	131.23	23.7	1468	3.9	0.6	25	1.68	46.1	4.4	4.3	2.4	42.7	0.08	21.21	2.57	91	0.02	0.074
3199851	Soil	55.96	16.32	122.47	31.1	1693	6.6	1.2	27	1.73	49.9	3.4	3.5	0.4	36.1	0.08	19.09	1.78	125	0.01	0.078
3199852	Soil	61.09	20.93	133.89	32.5	1808	6.4	1.2	39	2.18	61.5	3.9	5.3	0.4	34.4	0.09	22.97	1.26	138	0.01	0.083
3199853	Soil	42.50	17.49	83.83	38.0	1030	6.0	1.0	23	2.54	72.2	1.9	2.6	2.0	28.3	0.08	20.23	0.82	126	<0.01	0.078
3199854	Soil	42.20	11.84	69.31	27.0	971	3.7	0.5	14	1.41	65.5	2.2	3.6	1.1	24.7	0.05	19.33	0.71	82	<0.01	0.051
3199855	Soil	45.79	15.22	115.38	52.7	1479	6.6	0.9	22	2.38	79.6	2.9	5.4	3.1	63.7	0.08	21.74	0.48	103	<0.01	0.091
3199856	Soil	38.85	19.48	84.10	64.1	918	8.2	1.1	29	2.21	75.4	2.6	3.5	2.6	63.9	0.12	15.68	0.36	85	<0.01	0.098
3199857	Soil	38.54	23.22	84.97	78.0	792	9.0	1.4	34	2.44	77.4	3.3	2.6	5.2	77.3	0.13	15.76	0.36	87	0.01	0.103
3199858	Soil	35.34	16.51	86.05	44.1	718	6.0	1.0	21	1.79	42.3	2.1	4.0	3.1	31.6	0.06	11.76	0.34	49	<0.01	0.049
3199859	Soil	3.79	23.13	11.86	182.4	420	5.0	0.3	3	39.54	32.2	5.7	1.1	1.0	4.1	0.01	1.32	0.07	2537	<0.01	0.371
3199860	Rock Pulp	11.50	157.82	248.00	219.7	100	77.3	48.3	260	1.51	9.9	0.5	39.1	3.7	34.8	0.55	0.18	0.17	24	0.58	0.057
3199861	Soil	18.41	34.41	124.65	20.2	1635	2.7	0.4	12	13.02	338.0	2.2	3.6	2.4	20.8	0.05	8.79	0.20	649	<0.01	0.462
3199862	Soil	24.53	39.47	172.35	26.3	410	2.1	0.3	9	31.64	565.8	2.1	3.4	3.1	14.1	0.03	9.56	0.14	1462	<0.01	0.831
3199863	Soil	4.88	16.24	50.85	85.0	477	1.3	0.2	5	33.03	116.3	3.0	1.0	0.8	8.6	0.03	2.12	0.05	3633	<0.01	0.600
3199864	Soil	21.41	20.15	47.51	55.9	392	8.7	1.3	27	1.89	31.3	1.0	2.6	2.3	24.5	0.09	9.64	0.28	39	<0.01	0.043
3199865	Soil	14.17	12.51	25.73	32.6	932	5.0	0.9	20	1.17	21.2	0.6	1.2	1.0	14.4	0.04	6.28	0.17	32	0.01	0.033
3199866	Soil	36.62	16.51	52.86	44.9	768	5.8	0.9	18	1.42	37.5	1.3	2.9	3.8	39.0	0.05	13.73	0.39	25	<0.01	0.043
3199867	Soil	20.35	29.34	30.90	50.9	633	9.4	1.5	25	5.47	43.3	1.1	2.8	2.2	12.9	0.06	9.70	0.39	66	<0.01	0.092



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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

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Report Date: September 07, 2018

Page: 8 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199838	Soil	14.3	14.4	0.08	378.9	0.004	<20	0.64	0.008	0.05	0.2	2.9	0.59	0.03	194	2.4	0.09	1.7
3199839	Soil	12.4	12.3	0.07	482.5	0.006	<20	0.71	0.009	0.05	0.2	3.0	0.51	0.05	207	2.5	0.06	1.8
3199840	Soil	10.9	10.6	0.05	592.6	0.006	<20	0.66	0.009	0.04	0.2	2.4	0.47	0.06	155	3.0	0.06	1.7
3199841	Soil	3.9	4.4	0.13	357.1	0.012	<20	0.62	0.028	0.02	<0.1	0.5	0.12	0.12	107	3.6	<0.02	1.5
3199842	Soil	18.0	15.2	0.06	274.7	0.004	<20	0.62	0.001	0.07	0.3	1.6	0.33	0.03	21	3.9	0.12	2.6
3199843	Soil	15.1	17.0	0.07	224.9	0.009	<20	0.85	0.002	0.06	0.3	1.5	0.38	0.03	182	4.9	0.13	3.0
3199844	Soil	21.0	13.1	0.09	322.6	0.005	<20	0.64	0.002	0.05	0.3	1.2	0.26	0.03	77	3.5	0.15	2.5
3199845	Soil	22.5	12.4	0.11	387.7	0.006	<20	0.61	0.003	0.09	0.4	3.3	0.32	<0.02	338	2.7	0.13	1.6
3199846	Soil	15.3	9.2	0.02	369.3	0.010	<20	0.30	0.002	0.07	0.3	0.6	0.59	0.10	75	8.2	0.21	2.5
3199847	Soil	17.4	11.4	0.06	435.3	0.008	<20	0.57	0.006	0.10	0.2	1.0	0.55	0.10	190	9.9	0.18	2.8
3199848	Soil	15.3	11.8	0.03	600.1	0.006	<20	0.46	0.005	0.11	0.2	0.8	0.69	0.14	308	11.9	0.20	2.8
3199849	Soil	11.6	7.0	0.01	749.5	0.002	<20	0.54	0.003	0.08	0.2	0.5	0.58	0.08	201	7.6	0.11	2.7
3199850	Soil	13.9	9.4	0.02	702.7	0.008	<20	0.55	0.012	0.14	0.5	0.7	1.31	0.25	195	20.8	0.22	3.0
3199851	Soil	22.4	12.3	0.03	494.3	0.009	<20	0.57	0.007	0.10	0.5	0.5	0.90	0.14	177	14.6	0.24	3.9
3199852	Soil	14.9	14.4	0.04	704.3	0.011	<20	0.65	0.008	0.12	0.5	0.7	1.16	0.17	428	16.4	0.28	4.4
3199853	Soil	15.4	10.5	0.02	483.7	0.018	<20	0.35	0.003	0.10	0.5	0.7	0.81	0.17	105	12.6	0.20	3.5
3199854	Soil	19.1	7.3	0.02	466.3	0.011	<20	0.28	0.002	0.07	0.4	0.5	0.72	0.10	132	8.7	0.22	2.9
3199855	Soil	15.8	13.2	0.04	1265.4	0.010	<20	0.42	0.003	0.16	0.4	1.1	1.24	0.24	295	14.6	0.26	3.0
3199856	Soil	15.7	13.3	0.05	1247.7	0.008	<20	0.35	0.002	0.14	0.3	1.0	1.20	0.25	202	11.4	0.21	2.6
3199857	Soil	18.2	14.0	0.05	1864.7	0.009	<20	0.39	0.003	0.14	0.3	1.3	1.09	0.26	257	11.9	0.19	2.7
3199858	Soil	16.8	7.8	0.02	1585.2	0.007	<20	0.27	0.002	0.08	0.2	0.8	0.52	0.14	255	9.2	0.22	1.8
3199859	Soil	1.4	70.7	<0.01	79.3	0.003	<20	0.38	0.002	<0.01	<0.1	0.9	0.08	0.19	92	1.6	<0.02	0.6
3199860	Rock Pulp	29.5	31.1	0.47	66.1	0.072	<20	0.81	0.090	0.12	<0.1	3.1	0.08	0.04	18	<0.1	<0.02	2.8
3199861	Soil	11.8	21.7	<0.01	414.3	0.004	<20	0.29	0.006	0.04	<0.1	1.2	0.33	0.17	151	5.8	0.08	1.7
3199862	Soil	7.4	37.3	<0.01	494.0	0.003	<20	0.16	<0.001	0.04	<0.1	1.3	0.36	0.44	110	5.7	0.06	1.5
3199863	Soil	1.8	46.6	<0.01	175.3	0.004	<20	0.19	0.003	0.08	<0.1	0.6	0.22	0.54	40	1.4	<0.02	0.7
3199864	Soil	17.8	6.6	0.01	1364.9	0.005	<20	0.20	0.001	0.05	0.1	0.7	0.33	0.08	86	5.6	0.19	2.0
3199865	Soil	12.3	5.0	0.01	309.7	0.007	<20	0.15	0.009	0.04	<0.1	0.5	0.25	0.02	80	2.7	0.13	2.0
3199866	Soil	16.1	4.5	<0.01	2355.8	0.004	<20	0.16	0.002	0.06	0.1	0.7	0.80	0.11	375	9.1	0.30	1.5
3199867	Soil	18.2	11.4	<0.01	190.3	0.015	<20	0.36	0.005	0.03	0.3	0.6	0.38	0.02	107	6.7	0.19	4.4



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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

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Page:

9 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

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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
3199868	Soil	22.15	33.45	76.62	47.4	904	8.7	1.2	29	4.49	56.6	2.4	3.8	0.8	32.3	0.10	10.87	0.37	64	0.01	0.121
3199869	Soil	22.71	37.64	81.16	70.5	790	13.6	2.1	48	5.31	73.8	1.4	3.0	1.8	22.7	0.12	8.78	0.53	98	0.02	0.183
3199870	Soil	12.54	45.51	40.84	50.8	940	10.5	1.7	43	1.96	29.5	1.7	1.4	0.6	24.5	0.12	7.32	0.19	30	0.02	0.095
3199871	Soil	10.11	19.51	37.38	48.3	1554	11.4	1.7	48	1.94	32.5	1.8	16.2	<0.1	18.0	0.10	3.96	0.25	42	0.03	0.186
3199872	Soil	19.06	17.70	83.14	42.0	1549	8.3	1.2	38	4.18	72.5	2.7	3.7	3.4	52.4	0.12	7.11	0.58	85	0.02	0.198
3199873	Soil	48.69	18.05	116.72	35.2	1967	8.2	2.1	69	2.12	48.6	3.3	5.4	3.3	37.6	0.13	21.86	0.53	94	0.03	0.068
3199874	Soil	50.78	15.30	91.78	19.0	2409	4.2	1.0	62	1.94	41.3	4.4	4.5	2.7	33.4	0.08	26.85	0.43	120	0.02	0.063
3199875	Soil	90.63	23.94	121.68	40.6	2409	12.0	2.7	90	2.66	68.1	6.0	5.1	2.4	42.7	0.13	24.42	0.72	184	0.04	0.079
3199876	Soil	63.85	20.52	71.20	17.8	1953	4.6	1.2	73	1.63	52.2	7.9	4.4	2.2	32.9	0.09	23.22	0.46	132	0.03	0.076
3199877	Soil	19.81	8.98	29.08	9.0	1026	2.3	0.6	33	0.55	10.3	1.6	1.3	0.2	10.4	0.06	6.64	0.23	52	0.02	0.036
3199878	Soil	71.51	11.89	89.34	18.3	1405	3.5	0.5	19	1.37	40.0	2.8	4.5	0.5	19.3	0.09	25.64	0.46	129	<0.01	0.047
3199879	Soil	49.83	18.76	69.50	49.0	781	9.2	1.3	27	1.92	69.2	1.6	2.0	0.6	36.4	0.09	16.24	0.42	131	0.01	0.078
3199880	Soil	30.47	13.43	17.26	36.7	809	5.3	1.0	18	0.80	24.0	1.0	0.6	0.2	9.9	0.08	9.03	0.22	86	<0.01	0.037
3199881	Soil	36.32	11.24	65.94	47.3	1703	4.6	0.8	20	1.69	66.6	2.0	2.8	1.6	42.3	0.09	16.27	0.32	99	<0.01	0.059
3199882	Soil	33.94	10.12	106.01	37.1	923	3.5	0.5	12	1.30	57.2	2.1	3.4	1.2	43.2	0.06	15.92	0.41	75	<0.01	0.056
3199883	Soil	35.46	28.86	85.74	90.4	1825	13.2	1.7	42	2.73	86.0	3.5	3.8	4.2	79.5	0.17	13.59	0.44	101	0.01	0.113
3199884	Soil	66.93	29.29	106.20	62.7	730	9.4	1.4	30	2.56	68.0	4.9	2.5	1.6	34.5	0.11	17.26	0.45	105	0.01	0.062
3199885	Soil	93.99	29.44	143.40	71.3	1659	9.4	1.5	40	3.18	67.2	4.8	5.8	5.1	63.0	0.30	20.55	0.55	113	0.02	0.113
3199886	Soil	49.95	17.09	83.77	56.6	1939	6.8	0.9	24	1.61	65.1	1.7	1.7	1.5	46.8	0.09	13.35	0.44	84	<0.01	0.061
3199887	Soil	72.22	15.91	87.31	47.8	794	5.9	0.8	17	1.67	59.4	2.9	2.3	2.5	62.6	0.08	14.93	0.40	70	<0.01	0.064
3199888	Soil	23.74	22.04	203.63	57.6	1142	7.4	1.1	24	2.71	54.6	1.2	3.8	3.8	28.7	0.08	11.83	0.39	59	<0.01	0.055
3199889	Soil	33.59	51.81	91.37	71.4	1324	9.7	1.4	25	9.11	135.1	1.5	6.6	3.4	13.7	0.07	15.39	0.50	160	<0.01	0.156
3199890	Soil	23.49	31.31	271.75	68.1	1323	10.4	1.6	34	3.60	49.3	1.2	4.5	2.8	35.5	0.08	11.35	0.43	60	<0.01	0.077
3199891	Soil	28.83	46.94	63.02	44.8	1486	9.0	1.7	26	2.94	45.7	2.1	1.7	0.2	23.7	0.18	5.28	0.41	111	0.03	0.074
3199892	Soil	32.94	19.99	27.76	47.4	504	8.1	1.4	25	1.53	38.2	1.2	0.7	0.2	22.9	0.09	6.14	0.32	65	<0.01	0.061
3199893	Soil	37.51	34.35	26.50	53.0	478	9.7	1.7	29	6.57	57.3	1.2	2.5	1.9	17.6	0.08	13.26	0.51	81	<0.01	0.106
3199894	Soil	36.43	54.36	40.95	51.3	975	9.8	1.2	22	10.67	76.7	2.5	2.7	1.9	16.5	0.17	15.91	0.58	88	<0.01	0.188
3199895	Soil	35.02	50.35	102.74	46.5	5249	16.6	1.4	19	8.06	79.2	7.2	8.7	0.4	31.5	0.84	11.61	0.53	313	0.01	0.173
3199896	Soil	28.45	26.07	80.72	79.3	1002	13.0	2.0	37	2.49	59.9	1.8	2.0	2.2	40.4	0.13	9.74	0.42	64	<0.01	0.082
3199897	Soil	15.31	20.58	48.79	70.6	183	13.6	2.0	35	1.72	37.3	0.9	<0.2	0.8	17.5	0.10	3.80	0.34	69	<0.01	0.056



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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

Project: MacMillan Pass
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Page: 9 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199868	Soil	14.9	14.9	0.02	817.1	0.007	<20	0.34	0.007	0.07	0.2	0.7	0.56	0.10	315	8.6	0.19
3199869	Soil	13.4	20.9	0.04	296.1	0.019	<20	0.63	0.005	0.07	0.3	1.0	0.48	0.07	143	5.9	0.19
3199870	Soil	11.0	10.7	0.05	1260.0	0.009	<20	0.57	0.018	0.06	0.2	0.8	0.59	0.08	151	3.8	0.07
3199871	Soil	10.9	15.1	0.04	202.8	0.005	<20	0.45	0.009	0.05	0.2	0.2	0.39	0.08	352	2.6	0.07
3199872	Soil	22.2	16.7	0.05	390.3	0.016	<20	0.58	0.003	0.07	0.4	1.1	1.01	0.06	246	4.3	0.14
3199873	Soil	20.2	23.3	0.13	746.0	0.021	<20	0.47	0.009	0.18	0.2	1.2	2.37	0.33	254	22.9	0.29
3199874	Soil	13.5	12.6	0.04	722.2	0.013	<20	0.34	0.008	0.17	0.3	0.8	1.42	0.31	328	35.2	0.32
3199875	Soil	19.1	26.7	0.12	840.7	0.018	<20	0.77	0.007	0.18	0.6	1.3	2.55	0.29	379	26.7	0.41
3199876	Soil	14.2	16.2	0.06	582.7	0.018	<20	0.41	0.010	0.16	0.6	1.3	1.79	0.29	422	19.5	0.40
3199877	Soil	12.6	6.9	0.02	169.2	0.010	<20	0.42	0.018	0.04	0.5	0.4	0.32	0.03	93	3.6	0.13
3199878	Soil	16.6	10.3	0.02	402.2	0.010	<20	0.33	0.006	0.07	0.7	0.5	0.91	0.09	218	12.9	0.27
3199879	Soil	17.3	11.0	0.02	543.6	0.012	<20	0.27	0.005	0.09	0.5	0.5	0.82	0.12	77	9.7	0.25
3199880	Soil	25.9	6.2	<0.01	174.1	0.008	<20	0.26	0.003	0.03	0.4	0.3	0.17	<0.02	36	2.6	0.15
3199881	Soil	19.8	8.6	0.02	720.8	0.009	<20	0.32	0.003	0.08	0.4	0.5	0.69	0.12	105	7.3	0.19
3199882	Soil	18.3	8.2	0.02	1484.0	0.006	<20	0.25	0.003	0.10	0.3	0.6	0.78	0.17	110	7.9	0.15
3199883	Soil	17.3	18.8	0.07	1266.9	0.008	<20	0.61	0.004	0.16	0.3	1.4	1.13	0.27	242	10.0	0.20
3199884	Soil	20.1	15.1	0.02	1145.6	0.012	<20	0.38	0.004	0.09	0.3	0.8	0.60	0.10	165	9.1	0.27
3199885	Soil	17.9	16.8	0.03	1415.9	0.016	<20	0.47	0.004	0.17	0.5	1.3	1.32	0.29	675	16.0	0.32
3199886	Soil	21.3	8.5	0.02	515.4	0.007	<20	0.31	0.005	0.08	0.3	0.7	0.64	0.12	170	7.6	0.25
3199887	Soil	18.5	8.9	0.01	569.3	0.007	<20	0.25	0.003	0.09	0.3	0.8	0.78	0.13	148	10.3	0.37
3199888	Soil	19.8	10.5	0.02	352.8	0.008	<20	0.35	0.002	0.07	0.1	1.0	0.48	0.08	167	7.0	0.20
3199889	Soil	16.3	15.7	0.01	218.1	0.011	<20	0.45	0.002	0.04	0.2	0.8	0.31	<0.02	220	17.0	0.59
3199890	Soil	16.3	14.1	0.04	396.1	0.010	<20	0.45	0.005	0.11	0.2	1.2	0.77	0.17	184	7.8	0.24
3199891	Soil	18.3	11.1	0.01	377.7	0.008	<20	0.62	0.004	0.03	0.2	0.4	0.31	0.02	68	2.3	0.21
3199892	Soil	21.7	7.7	0.01	294.1	0.006	<20	0.32	0.003	0.05	0.2	0.4	0.47	<0.02	53	1.9	0.19
3199893	Soil	14.5	14.9	0.01	351.8	0.017	<20	0.26	0.003	0.05	0.3	0.7	0.56	0.04	91	11.2	0.28
3199894	Soil	12.2	17.6	0.01	532.2	0.014	<20	0.26	0.004	0.05	0.2	0.8	0.78	0.07	305	14.1	0.29
3199895	Soil	10.0	22.2	0.02	863.2	0.006	<20	0.51	0.006	0.13	0.4	0.7	1.52	0.26	1019	14.2	0.23
3199896	Soil	18.7	9.7	0.02	585.2	0.011	<20	0.26	0.005	0.10	0.3	0.9	1.15	0.15	89	5.5	0.18
3199897	Soil	25.6	7.6	0.01	211.4	0.008	<20	0.23	0.001	0.04	0.3	0.5	0.30	0.04	27	1.6	0.09



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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

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Report Date:

September 07, 2018

Page:

10 of 11

Part:

1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199898	Soil	26.38	27.43	130.09	44.1	1565	5.2	0.7	16	7.40	123.5	4.3	2.7	2.8	25.6	0.10	13.91	0.27	337	<0.01	0.191
3199899	Soil	26.90	29.72	121.16	30.8	1921	4.8	0.8	24	4.91	86.8	4.4	2.7	3.4	25.1	0.06	14.72	0.44	210	<0.01	0.135
3199900	Rock Pulp	0.68	26.37	2.35	22.4	24	17.7	5.9	268	1.35	0.8	0.5	0.5	3.8	29.2	0.04	0.07	0.05	21	0.58	0.058
3199901	Soil	42.08	19.77	151.37	25.0	3041	4.5	0.8	16	1.76	72.9	2.4	4.7	0.5	40.5	0.06	10.08	0.45	49	0.01	0.087
3199902	Soil	81.50	19.41	161.09	38.8	1847	5.1	0.7	19	2.46	101.8	4.9	6.6	1.2	73.9	0.11	23.91	0.61	138	0.01	0.101
3199903	Soil	55.95	19.23	152.18	51.4	1458	6.4	0.9	25	2.25	103.1	3.2	4.2	0.5	98.9	0.12	19.46	0.56	102	0.01	0.127
3199904	Soil	24.83	15.77	90.40	17.3	2977	3.0	0.4	11	1.23	42.0	3.8	4.7	0.2	50.8	0.04	8.50	0.31	50	0.01	0.080
3199905	Soil	30.17	27.78	68.03	57.6	957	10.1	1.6	29	1.65	55.3	1.7	1.5	0.6	33.6	0.10	8.38	0.43	77	<0.01	0.061
3199906	Soil	23.72	20.33	83.10	29.3	889	4.9	0.7	16	1.06	37.4	2.3	1.6	<0.1	52.2	0.11	6.51	0.35	51	0.01	0.074
3199907	Soil	37.51	25.85	107.20	47.5	955	7.3	1.2	26	1.74	66.6	2.8	2.2	0.3	56.4	0.15	10.59	0.41	87	<0.01	0.073
3199908	Soil	18.69	50.29	54.00	149.7	847	32.6	5.4	98	3.88	67.0	2.8	3.9	4.4	33.2	0.21	7.51	0.41	67	0.02	0.135
3199909	Soil	22.60	26.63	48.78	30.9	2534	10.4	1.1	17	1.76	28.1	1.1	7.4	<0.1	12.3	0.22	3.45	0.33	58	0.02	0.082
3199910	Soil	35.31	29.25	174.19	39.9	1507	6.5	1.2	21	5.98	95.1	4.4	2.7	3.5	27.3	0.10	14.09	0.28	277	0.01	0.151
3199911	Soil	25.27	15.74	84.05	48.6	1051	5.5	0.9	21	1.23	35.7	1.4	1.6	0.2	41.3	0.10	5.37	0.30	76	<0.01	0.053
3199912	Soil	24.59	47.33	92.49	105.9	1424	18.7	3.1	62	5.97	89.6	1.9	4.5	6.4	113.0	0.16	7.93	0.48	78	0.02	0.218
3199913	Soil	21.15	21.16	85.37	61.2	471	11.3	2.3	35	1.99	38.1	0.9	2.7	0.9	20.8	0.10	4.57	0.32	83	<0.01	0.066
3199914	Soil	16.14	24.44	41.37	84.1	1311	17.4	2.6	58	3.68	49.0	1.4	3.4	3.5	34.4	0.12	6.06	0.29	62	<0.01	0.078
3199915	Soil	30.54	177.77	58.13	55.2	1717	5.9	1.5	21	18.08	69.8	3.0	3.0	2.7	24.5	0.09	19.01	0.32	151	0.01	0.210
3199916	Soil	9.90	10.72	12.82	37.2	450	6.2	0.9	17	1.18	19.7	0.7	0.4	0.5	12.0	0.07	3.78	0.16	60	<0.01	0.026
3199917	Soil	29.28	36.06	57.78	92.4	2478	20.8	3.1	53	6.79	63.2	2.3	3.3	4.7	31.1	0.17	8.92	0.42	60	0.01	0.165
3199918	Soil	19.72	28.26	16.75	77.3	554	15.6	2.0	36	1.69	26.0	1.1	1.6	0.2	10.1	0.22	2.93	0.19	51	<0.01	0.062
3199919	Soil	91.61	13.01	200.86	12.5	1792	5.9	0.6	8	1.25	121.1	4.7	4.8	0.4	29.0	0.17	19.30	0.56	113	0.02	0.056
3199920	Soil	73.07	20.71	299.51	17.4	2268	8.7	0.7	16	1.30	100.0	8.5	8.5	0.4	53.9	0.27	15.08	0.72	101	0.03	0.082
3199921	Soil	67.61	18.02	165.32	42.3	2284	8.1	1.2	43	2.27	83.6	4.9	6.8	0.6	94.4	0.17	16.22	0.50	135	0.04	0.118
3199922	Soil	21.25	7.33	122.51	8.5	1126	2.1	0.4	17	1.09	31.6	1.1	5.8	1.0	15.5	0.07	9.76	0.33	48	0.03	0.042
3199923	Soil	52.99	13.82	79.17	16.2	4289	3.0	0.3	7	1.49	39.9	3.2	4.2	2.5	35.9	0.09	17.68	0.44	101	<0.01	0.037
3199924	Soil	60.89	11.98	42.29	7.4	1584	1.3	0.2	4	1.69	22.5	3.2	1.3	1.8	8.1	0.08	26.82	0.50	143	<0.01	0.031
3199925	Soil	46.26	13.09	83.20	19.4	1400	4.9	0.8	17	1.37	36.5	2.3	4.1	0.1	27.0	0.13	12.13	0.60	126	0.01	0.059
3199926	Soil	23.85	15.69	54.61	56.1	1192	7.5	1.4	56	1.20	47.9	2.2	6.5	0.4	43.7	0.44	7.32	0.57	83	0.02	0.061
3199927	Soil	29.65	6.68	112.27	10.8	3243	2.0	0.7	17	2.98	46.5	1.4	6.4	2.2	65.7	0.04	23.52	0.63	88	<0.01	0.069



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Page: 10 of 11

Part: 2 of 2

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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
3199898	Soil	11.7	24.6	0.02	1223.1	0.006	<20	0.23	0.004	0.08	0.2	1.3	0.99	0.30	338	12.4	0.16
3199899	Soil	13.4	16.6	0.02	1382.7	0.008	<20	0.29	0.005	0.07	0.2	1.6	0.77	0.21	418	14.0	0.16
3199900	Rock Pulp	18.3	28.0	0.42	62.3	0.067	<20	0.70	0.070	0.10	<0.1	2.5	0.07	<0.02	14	<0.1	<0.02
3199901	Soil	8.2	7.9	0.02	617.4	0.006	<20	0.39	0.015	0.12	0.2	0.7	1.42	0.18	596	8.9	0.30
3199902	Soil	15.9	15.6	0.03	1075.4	0.008	<20	0.38	0.003	0.18	0.7	0.8	1.78	0.35	444	20.7	0.43
3199903	Soil	16.5	12.3	0.02	932.8	0.006	<20	0.31	0.004	0.16	0.5	0.7	1.64	0.33	210	15.9	0.37
3199904	Soil	11.5	8.1	0.02	1425.2	0.005	<20	0.36	0.011	0.04	0.3	0.6	0.84	0.08	519	6.6	0.17
3199905	Soil	20.1	8.6	0.01	464.5	0.012	<20	0.32	0.002	0.06	0.3	0.6	0.60	0.07	102	4.2	0.16
3199906	Soil	13.1	8.9	0.02	493.7	0.004	<20	0.30	0.011	0.07	0.3	0.2	0.60	0.11	95	5.5	0.20
3199907	Soil	18.2	10.1	0.02	608.0	0.007	<20	0.32	0.003	0.09	0.4	0.5	0.88	0.15	89	7.6	0.23
3199908	Soil	20.3	22.5	0.12	411.8	0.012	<20	0.96	0.003	0.08	0.4	1.9	0.54	0.07	231	5.2	0.12
3199909	Soil	7.1	12.4	0.01	283.3	0.002	<20	0.50	0.012	0.04	0.1	0.1	0.32	0.06	192	2.5	0.11
3199910	Soil	11.4	25.8	0.02	1909.1	0.005	<20	0.36	0.003	0.12	0.2	1.9	1.07	0.28	553	17.4	0.21
3199911	Soil	18.4	7.5	0.01	432.9	0.004	<20	0.29	0.003	0.08	0.3	0.4	0.55	0.10	46	3.9	0.22
3199912	Soil	16.8	27.6	0.07	754.4	0.006	<20	0.94	0.006	0.17	0.2	2.3	1.06	0.27	91	7.4	0.21
3199913	Soil	20.6	9.3	0.01	264.3	0.012	<20	0.30	0.002	0.06	0.3	0.6	0.39	0.07	24	2.6	0.13
3199914	Soil	12.8	13.1	0.08	743.7	0.010	<20	0.64	0.003	0.13	0.2	1.2	0.75	0.19	211	5.5	0.13
3199915	Soil	6.9	28.1	0.01	363.8	0.014	<20	0.45	0.001	0.07	0.3	0.8	0.68	0.17	999	24.2	0.31
3199916	Soil	14.9	3.7	<0.01	245.0	0.007	<20	0.22	0.001	0.03	0.2	0.4	0.18	<0.02	36	1.2	0.06
3199917	Soil	10.9	23.8	0.09	1666.3	0.013	<20	0.96	0.003	0.13	0.4	1.5	1.31	0.25	551	11.3	0.18
3199918	Soil	19.7	7.0	<0.01	185.7	0.008	<20	0.28	0.004	0.05	0.4	0.4	0.38	0.04	71	2.0	0.07
3199919	Soil	20.5	18.2	0.01	529.1	0.010	<20	0.25	<0.001	0.08	0.6	0.5	0.81	0.11	155	27.0	0.64
3199920	Soil	17.2	22.5	0.03	1395.8	0.012	<20	0.41	0.003	0.11	0.8	0.9	1.26	0.19	477	20.3	0.56
3199921	Soil	11.2	27.4	0.06	1269.8	0.015	<20	0.67	0.015	0.20	0.8	1.3	2.06	0.36	483	17.4	0.46
3199922	Soil	29.0	6.4	<0.01	1398.3	0.013	<20	0.27	0.007	0.11	0.2	0.4	0.59	0.24	125	13.1	0.17
3199923	Soil	14.2	9.2	0.01	1432.2	0.005	<20	0.56	0.001	0.13	0.5	1.0	1.03	0.24	538	18.4	0.26
3199924	Soil	9.6	8.9	0.01	440.8	0.008	<20	0.22	<0.001	0.07	0.5	0.9	0.57	0.04	442	21.2	0.31
3199925	Soil	14.3	11.3	0.03	476.0	0.006	<20	0.57	0.006	0.11	0.5	0.4	0.75	0.13	226	12.0	0.24
3199926	Soil	17.6	9.2	0.02	1217.9	0.015	<20	0.42	0.004	0.07	0.4	0.5	1.87	0.13	256	6.8	0.26
3199927	Soil	11.5	9.4	<0.01	876.0	0.025	<20	0.18	0.003	0.41	0.3	0.5	1.55	0.83	625	47.6	0.39



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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

Project: MacMillan Pass
Report Date: September 07, 2018

Page: 11 of 11

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	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
3199928	Soil	48.61	414.46	22.22	3599.2	665	462.4	77.1	2129	8.53	104.3	14.6	<0.2	4.6	332.7	29.19	16.58	0.19	427	0.37	0.321
3199929	Soil	90.45	70.03	29.20	164.5	1129	31.7	3.2	81	4.43	125.2	9.3	1.3	2.9	236.0	0.40	15.59	0.26	267	0.07	0.338
3199930	Soil	48.74	30.41	59.59	27.0	1139	8.9	0.5	10	1.80	28.8	3.6	2.2	0.5	92.3	0.19	6.59	0.31	77	0.02	0.127
3199931	Soil	32.16	13.75	52.10	59.0	347	7.5	1.2	18	1.39	40.6	0.8	1.4	0.9	32.5	0.12	9.19	0.25	65	<0.01	0.041
3199932	Soil	29.33	17.35	68.35	55.8	691	8.6	1.6	19	3.66	53.2	0.7	5.4	1.1	22.9	0.10	10.46	0.32	99	<0.01	0.073
3199933	Soil	20.55	16.55	33.21	46.2	371	7.6	1.7	22	2.55	41.5	0.7	0.9	0.6	8.9	0.09	5.73	0.20	98	<0.01	0.050
3199934	Soil	15.41	43.83	106.64	51.1	1218	7.8	1.4	17	11.61	52.1	1.1	1.6	1.0	8.8	0.08	6.10	0.22	132	<0.01	0.209
3199935	Soil	25.02	42.98	58.63	166.0	1118	38.2	5.5	87	4.48	60.9	2.4	6.2	6.7	41.0	0.23	8.59	0.34	65	0.01	0.123
3199936	Soil	18.56	14.23	28.49	54.7	364	8.5	1.2	24	1.43	29.6	0.7	1.7	0.6	14.1	0.08	4.56	0.23	74	<0.01	0.032
3199937	Soil	22.14	37.56	33.15	59.2	1403	11.3	2.0	35	1.89	31.6	2.3	4.7	0.2	25.2	0.24	4.40	0.39	85	0.01	0.062
3199938	Soil	24.92	24.33	115.30	31.2	1680	7.1	0.9	21	2.70	30.3	4.4	5.0	0.2	58.6	0.22	6.48	0.30	58	0.02	0.112
3199939	Soil	28.08	14.75	71.11	31.8	2394	5.3	0.6	17	2.71	78.1	1.6	3.4	0.2	38.6	0.16	7.84	0.35	242	0.02	0.138
3199940	Rock Pulp	12.09	160.79	285.89	215.8	103	82.0	48.3	282	1.66	10.1	0.4	41.7	3.4	36.6	0.53	0.17	0.18	25	0.61	0.055
3200001	Soil	13.39	93.36	111.20	75.9	2708	14.3	2.0	92	5.07	120.1	1.7	4.9	9.8	36.1	0.15	17.49	0.62	79	0.01	0.156
3200002	Soil	9.79	111.63	58.36	75.1	2146	17.5	2.2	77	3.00	47.6	2.3	6.9	6.6	20.3	0.14	6.86	0.52	43	0.01	0.089



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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

Project: MacMillan Pass
Report Date: September 07, 2018

Page: 11 of 11

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000524.1

	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
3199928	Soil	11.7	34.4	0.75	2248.7	0.004	<20	5.38	0.003	0.11	0.4	6.1	3.11	0.27	646	16.8	0.20
3199929	Soil	5.1	45.4	0.07	736.1	0.011	<20	1.73	0.024	0.33	0.6	3.4	3.93	0.86	568	22.9	0.31
3199930	Soil	7.1	17.8	0.03	2336.7	0.009	<20	0.84	0.011	0.06	0.3	0.8	1.75	0.15	521	10.1	0.18
3199931	Soil	13.5	6.4	0.01	354.2	0.007	<20	0.20	0.004	0.06	0.2	0.5	0.66	0.08	64	3.9	0.20
3199932	Soil	12.0	10.0	<0.01	277.1	0.010	<20	0.31	0.002	0.07	0.2	0.6	0.60	0.07	88	8.0	0.25
3199933	Soil	14.3	8.2	<0.01	147.5	0.012	<20	0.21	0.004	0.03	0.2	0.5	0.22	0.02	33	2.9	0.12
3199934	Soil	7.7	10.2	<0.01	179.3	0.007	<20	0.33	0.002	0.05	0.1	0.6	0.26	0.08	247	12.4	0.17
3199935	Soil	15.3	26.2	0.15	1160.5	0.016	<20	0.73	0.009	0.14	0.3	2.2	0.82	0.22	539	10.9	0.17
3199936	Soil	17.4	6.2	<0.01	220.2	0.010	<20	0.25	0.001	0.04	0.3	0.5	0.24	0.03	44	2.5	0.10
3199937	Soil	24.1	16.4	0.01	498.0	0.012	<20	0.53	0.003	0.05	0.2	0.5	0.27	0.05	77	2.5	0.17
3199938	Soil	7.6	11.8	0.02	901.2	0.007	<20	0.56	0.016	0.13	0.2	0.5	1.59	0.25	546	7.1	0.16
3199939	Soil	12.2	11.4	0.02	1100.7	0.007	<20	0.52	0.007	0.16	0.2	0.6	0.76	0.25	149	7.7	0.19
3199940	Rock Pulp	28.1	33.5	0.50	62.9	0.080	<20	0.86	0.092	0.12	<0.1	3.2	0.08	0.04	36	<0.1	0.03
3200001	Soil	23.9	16.8	0.03	600.7	0.009	<20	0.41	0.003	0.22	<0.1	5.0	0.95	0.44	273	15.5	0.31
3200002	Soil	20.0	13.0	0.05	218.3	0.006	<20	0.59	0.004	0.09	<0.1	5.1	0.69	0.15	176	8.2	0.22



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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																					
3198825	Soil	33.17	29.97	65.20	37.4	2817	8.3	1.6	28	1.29	27.5	4.4	12.1	0.2	33.7	0.23	9.54	0.43	119	0.03	0.066
REP 3198825	QC	31.75	28.23	65.64	38.3	2729	7.7	1.5	26	1.30	26.4	4.2	3.1	0.2	32.6	0.23	9.09	0.43	120	0.03	0.064
3198861	Soil	41.51	16.75	78.82	60.1	1004	7.5	0.9	23	2.22	72.5	2.2	4.6	1.1	103.5	0.10	10.66	0.42	101	0.01	0.117
REP 3198861	QC	40.03	16.59	75.36	57.8	966	8.0	0.9	22	2.13	70.4	2.1	3.8	1.1	99.4	0.10	10.24	0.40	98	0.01	0.112
3198957	Soil	64.26	12.63	183.31	25.2	2213	5.2	0.5	14	1.30	55.5	6.4	4.4	4.6	64.5	0.16	21.26	2.57	108	0.01	0.063
REP 3198957	QC	64.96	13.08	182.64	24.3	2218	4.9	0.5	13	1.32	57.0	6.0	4.8	4.4	61.8	0.16	20.80	2.71	104	0.01	0.059
3198989	Soil	56.83	16.17	80.22	41.5	1102	7.6	0.9	20	1.94	53.0	2.5	3.5	3.4	39.5	0.12	10.58	0.35	61	<0.01	0.064
REP 3198989	QC	56.30	16.18	81.28	41.6	1050	7.5	0.9	20	1.90	50.7	2.4	3.4	3.1	37.1	0.10	10.32	0.34	60	<0.01	0.065
3198993	Soil	36.39	32.95	113.37	67.5	1757	11.1	1.6	27	6.35	130.0	2.0	7.4	5.7	14.9	0.07	12.74	0.57	106	<0.01	0.108
REP 3198993	QC	34.66	33.37	109.59	66.5	1721	11.0	1.5	26	6.28	126.2	1.9	5.9	5.6	14.2	0.09	12.26	0.53	105	<0.01	0.105
3199802	Soil	15.74	16.67	233.14	14.8	3710	3.0	0.3	16	2.14	62.1	2.8	28.2	8.4	39.6	0.06	11.83	0.71	50	0.01	0.072
REP 3199802	QC	16.40	15.87	242.92	15.2	3904	3.1	0.4	16	2.13	65.7	2.8	24.8	9.6	42.0	0.08	10.82	0.72	50	0.01	0.081
3199838	Soil	26.11	62.47	52.31	304.3	1112	89.7	9.1	593	3.84	51.0	9.1	3.8	2.3	44.7	1.58	7.66	0.31	61	0.38	0.112
REP 3199838	QC	25.63	62.86	51.80	295.1	1147	96.3	9.4	541	3.89	50.6	9.2	3.9	2.4	43.3	1.69	7.60	0.31	62	0.38	0.109
3199874	Soil	50.78	15.30	91.78	19.0	2409	4.2	1.0	62	1.94	41.3	4.4	4.5	2.7	33.4	0.08	26.85	0.43	120	0.02	0.063
REP 3199874	QC	52.43	16.44	93.09	19.2	2498	4.5	1.0	67	1.99	43.8	4.6	4.1	3.0	35.0	0.09	28.06	0.46	125	0.02	0.070
3200001	Soil	13.39	93.36	111.20	75.9	2708	14.3	2.0	92	5.07	120.1	1.7	4.9	9.8	36.1	0.15	17.49	0.62	79	0.01	0.156
REP 3200001	QC	13.24	92.27	110.50	74.3	2637	14.2	1.8	90	5.00	115.7	1.7	4.0	10.1	34.9	0.15	16.46	0.63	78	0.01	0.153
Reference Materials																					
STD DS11	Standard	14.93	148.52	137.83	340.5	1649	79.3	14.1	977	3.00	44.2	2.7	64.1	7.6	68.4	2.37	7.77	11.77	47	1.02	0.074
STD DS11	Standard	14.31	151.86	139.02	330.6	1565	79.7	14.3	1032	3.04	41.6	2.7	58.0	8.0	67.6	2.30	7.80	11.78	47	1.06	0.070
STD DS11	Standard	13.41	156.57	132.90	332.8	1640	75.0	13.9	1066	3.08	45.7	2.8	54.1	7.8	61.7	2.53	9.28	12.80	50	1.05	0.079
STD DS11	Standard	15.65	167.29	156.12	354.4	1642	85.6	14.5	1071	3.18	49.5	3.1	90.0	8.9	65.8	2.80	7.90	13.86	50	1.06	0.073
STD DS11	Standard	13.22	156.54	131.27	326.2	1687	71.9	13.3	964	2.97	47.5	2.8	79.0	7.7	58.1	2.53	8.84	13.20	47	1.01	0.074
STD DS11	Standard	14.74	156.30	141.53	334.7	1851	78.9	14.9	944	3.06	40.8	2.3	57.1	6.7	61.1	2.36	7.07	11.08	47	1.04	0.069
STD DS11	Standard	15.59	153.17	128.35	372.4	1841	86.0	15.2	1095	3.27	41.7	2.4	45.8	6.9	68.3	2.44	6.54	10.86	53	1.09	0.078
STD DS11	Standard	13.89	146.00	137.69	324.0	1591	78.3	14.4	1019	3.12	41.5	2.6	51.3	7.3	66.5	2.41	8.67	12.15	50	1.03	0.066
STD DS11	Standard	15.53	159.39	139.99	353.3	1939	82.0	14.2	1090	3.25	45.6	2.5	52.0	7.3	71.0	2.31	7.37	11.56	51	1.12	0.073



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Project: MacMillan Pass
Report Date: September 07, 2018

Page: 1 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

WHI18000524.1

Method		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
MDL		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																		
3198825	Soil	24.9	22.1	0.01	604.2	0.009	<20	0.63	0.005	0.05	0.3	0.6	0.28	0.03	88	6.1	0.22	3.0
REP 3198825	QC	24.3	21.0	0.01	608.0	0.009	<20	0.64	0.005	0.05	0.2	0.7	0.29	0.03	85	5.7	0.18	3.0
3198861	Soil	15.9	12.9	0.03	1554.0	0.008	<20	0.38	0.003	0.19	0.3	0.9	1.44	0.34	109	12.1	0.21	3.0
REP 3198861	QC	14.9	12.7	0.03	1560.1	0.007	<20	0.36	0.003	0.18	0.3	0.8	1.38	0.33	121	12.1	0.22	3.0
3198957	Soil	16.6	15.1	0.02	671.7	0.008	<20	0.49	0.001	0.12	0.7	1.2	0.95	0.17	433	25.3	0.40	3.4
REP 3198957	QC	15.1	14.0	0.01	649.3	0.007	<20	0.45	<0.001	0.11	0.6	1.2	0.93	0.17	473	24.7	0.41	3.3
3198989	Soil	17.8	11.9	0.03	1720.1	0.009	<20	0.38	<0.001	0.10	0.2	1.0	0.61	0.15	342	9.2	0.26	2.7
REP 3198989	QC	16.3	11.1	0.03	1602.0	0.009	<20	0.36	<0.001	0.10	0.2	1.1	0.59	0.14	368	8.4	0.26	2.6
3198993	Soil	18.0	12.5	0.01	236.4	0.013	<20	0.40	0.001	0.05	0.2	1.0	0.45	<0.02	466	16.6	0.54	3.3
REP 3198993	QC	16.9	11.6	0.01	221.2	0.013	<20	0.41	<0.001	0.05	0.2	0.9	0.46	<0.02	454	15.4	0.53	3.2
3199802	Soil	55.2	18.6	0.02	553.2	0.002	<20	0.57	0.004	0.12	<0.1	1.6	0.55	0.20	245	5.2	0.35	2.6
REP 3199802	QC	55.4	18.6	0.02	554.6	0.002	<20	0.57	0.003	0.12	<0.1	1.9	0.54	0.20	263	5.4	0.33	2.7
3199838	Soil	14.3	14.4	0.08	378.9	0.004	<20	0.64	0.008	0.05	0.2	2.9	0.59	0.03	194	2.4	0.09	1.7
REP 3199838	QC	14.1	13.5	0.08	379.2	0.004	<20	0.65	0.008	0.05	0.2	3.3	0.59	0.03	193	2.6	0.10	1.7
3199874	Soil	13.5	12.6	0.04	722.2	0.013	<20	0.34	0.008	0.17	0.3	0.8	1.42	0.31	328	35.2	0.32	2.1
REP 3199874	QC	14.3	14.0	0.05	750.2	0.014	<20	0.36	0.008	0.17	0.3	0.9	1.55	0.32	351	36.2	0.35	2.4
3200001	Soil	23.9	16.8	0.03	600.7	0.009	<20	0.41	0.003	0.22	<0.1	5.0	0.95	0.44	273	15.5	0.31	1.7
REP 3200001	QC	22.9	17.2	0.03	595.3	0.009	<20	0.41	0.003	0.22	<0.1	4.9	0.94	0.44	262	15.4	0.29	1.7
Reference Materials																		
STD DS11	Standard	17.8	59.6	0.81	409.7	0.092	<20	1.08	0.072	0.40	3.1	3.0	4.81	0.27	225	2.4	4.46	4.8
STD DS11	Standard	18.7	59.6	0.82	425.7	0.093	<20	1.11	0.072	0.39	2.6	3.1	4.95	0.27	256	1.8	4.46	4.5
STD DS11	Standard	18.4	54.3	0.83	356.6	0.087	<20	1.11	0.071	0.40	2.6	3.1	4.87	0.28	240	2.1	4.35	4.5
STD DS11	Standard	20.1	62.3	0.86	441.6	0.092	<20	1.16	0.072	0.41	2.8	3.3	5.25	0.29	279	2.2	4.98	5.1
STD DS11	Standard	18.7	54.4	0.80	376.0	0.083	<20	1.06	0.066	0.39	2.5	3.1	4.63	0.27	259	2.0	4.41	4.4
STD DS11	Standard	17.4	60.1	0.82	432.9	0.086	<20	1.09	0.070	0.40	2.8	3.3	5.00	0.27	248	2.0	4.58	4.8
STD DS11	Standard	17.0	63.8	0.86	439.6	0.096	<20	1.20	0.076	0.42	2.6	3.6	5.13	0.29	278	2.2	4.70	5.2
STD DS11	Standard	18.2	60.4	0.82	391.9	0.096	<20	1.11	0.074	0.39	2.5	3.1	5.02	0.28	245	2.3	4.80	4.7
STD DS11	Standard	18.8	61.5	0.89	398.7	0.101	<20	1.22	0.077	0.43	2.6	3.2	4.79	0.29	269	1.7	4.57	5.1



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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

Project:

MacMillan Pass

Report Date:

September 07, 2018

Page:

2 of 2

Part:

1 of 2

QUALITY CONTROL REPORT

WHI18000524.1

		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	1.96	768.44	17.62	38.0	277	420.7	58.4	464	25.55	13.9	2.3	66.3	13.4	4.6	0.02	0.39	0.32	331	0.04	0.032
STD OREAS45EA	Standard	1.39	676.36	12.88	28.0	211	392.6	50.3	394	20.69	10.1	1.8	45.6	9.9	3.6	<0.01	0.21	0.23	308	0.03	0.027
STD OREAS45EA	Standard	1.64	688.88	15.49	31.3	251	387.7	54.7	402	23.28	13.0	2.1	47.2	12.2	3.9	0.02	0.44	0.31	332	0.03	0.033
STD OREAS45EA	Standard	1.67	730.73	15.95	32.9	261	394.8	54.9	430	24.22	13.3	2.2	58.1	12.0	4.1	0.02	0.33	0.34	346	0.03	0.031
STD OREAS45EA	Standard	1.76	668.97	15.17	33.0	239	375.1	53.1	418	23.18	13.2	2.1	56.4	11.5	3.9	0.02	0.52	0.30	316	0.03	0.031
STD OREAS45EA	Standard	1.62	683.39	13.72	27.8	245	393.9	52.8	363	20.82	10.6	1.7	54.4	9.0	3.3	0.04	0.36	0.24	313	0.03	0.027
STD OREAS45EA	Standard	1.68	733.49	14.59	32.2	269	419.2	57.5	402	23.59	11.4	1.7	52.3	12.0	3.7	0.03	0.31	0.26	319	0.03	0.035
STD OREAS45EA	Standard	1.87	733.48	15.82	35.1	277	402.5	57.4	382	22.98	12.5	1.9	61.5	11.2	3.7	0.02	0.42	0.28	317	0.04	0.031
STD OREAS45EA	Standard	1.83	689.02	14.21	29.4	239	394.7	53.6	415	20.91	11.6	1.7	60.4	10.2	3.8	0.02	0.47	0.27	308	0.03	0.029
STD OREAS45EA	Standard	1.59	744.26	14.40	33.9	267	431.0	53.8	438	24.23	12.6	1.8	54.3	10.1	4.2	<0.01	0.26	0.26	352	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	7	<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	0.03	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.04	<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	0.03	0.04	<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	0.02	<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	0.03	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	0.02	<0.01	<0.01	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
BLK	Blank	<0.01	0.02	0.04	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

QUALITY CONTROL REPORT

WHI18000524.1

		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	8.5	951.1	0.11	172.1	0.116	<20	3.59	0.017	0.06	<0.1	83.1	0.07	0.04	15	1.9	0.13	14.2
STD OREAS45EA	Standard	6.7	858.0	0.10	129.3	0.094	<20	3.09	0.020	0.05	<0.1	73.2	0.05	0.02	14	1.1	0.10	12.0
STD OREAS45EA	Standard	8.2	853.8	0.10	151.5	0.098	<20	3.21	0.019	0.05	<0.1	77.7	0.06	0.03	10	1.4	0.11	12.8
STD OREAS45EA	Standard	7.8	854.5	0.11	151.9	0.104	<20	3.31	0.020	0.05	<0.1	79.2	0.07	0.03	21	1.5	0.12	12.9
STD OREAS45EA	Standard	7.9	858.6	0.11	149.1	0.098	<20	3.11	0.018	0.05	<0.1	79.5	0.07	0.03	16	1.3	0.12	13.2
STD OREAS45EA	Standard	6.7	912.5	0.09	137.0	0.093	<20	3.14	0.020	0.06	<0.1	79.2	0.07	0.02	17	1.0	0.10	11.8
STD OREAS45EA	Standard	7.3	948.2	0.09	156.2	0.100	<20	3.43	0.025	0.06	<0.1	81.7	0.07	0.04	11	1.4	0.12	12.8
STD OREAS45EA	Standard	7.2	1040.8	0.08	160.0	0.100	<20	3.50	0.016	0.06	<0.1	79.3	0.07	0.04	15	1.4	0.15	14.6
STD OREAS45EA	Standard	7.7	871.9	0.09	143.6	0.106	<20	3.39	0.025	0.06	<0.1	78.2	0.06	0.04	7	1.6	0.11	12.5
STD OREAS45EA	Standard	7.6	868.3	0.10	147.9	0.106	<20	3.58	0.016	0.06	<0.1	80.3	0.06	0.04	15	1.3	0.10	13.7
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	12	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	1.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	9	<0.1	<0.02	0.3
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	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	0.6	<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	10	<0.1	<0.02	<0.1