



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

Fireweed Zinc Ltd.

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

Submitted By: Confirmation & Email Distribution List

Receiving Lab: Canada-Whitehorse

Received: July 29, 2019

Report Date: August 23, 2019

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CERTIFICATE OF ANALYSIS

WHI19000281.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-017
P.O. Number
Number of Samples: 44

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

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
PRP70-500	43	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	43	Extra clean rock wash between samples in crusher			WHI
PULSW	43	Extra Wash with Silica between each sample			WHI
AQ270	44	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	44	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	44	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	44	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	44	Inorganic Carbon	0.2	Completed	VAN
TC009	44	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	44	Per sample shipping charges for branch shipments			VAN
LF726	1	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN

ADDITIONAL COMMENTS

V2O5 from LF725 is Qualitative Data only.


SOFIA DEVOTA
XRF Manager

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200910	Drill Core	3.20	14.0	26.6	14499.2	46687	17.6	82.3	33.6	329	2.58	42	1.9	3.8	52	256.5	19.7	<0.5	560	<0.01	0.040
3200911	Drill Core	3.87	12.1	55.6	>40000	126011	44.2	51.7	27.3	259	2.11	45	1.9	2.2	39	699.1	36.7	<0.5	427	<0.01	0.030
3200912	Drill Core	4.71	8.7	60.5	32799.6	127291	31.5	40.6	20.3	465	2.40	46	1.6	1.9	68	697.0	27.3	<0.5	263	<0.01	0.067
3200913	Drill Core	5.70	5.8	43.5	>40000	104355	46.4	29.3	16.8	545	2.51	67	1.3	1.2	85	521.3	39.4	<0.5	145	0.01	0.084
3200914	Drill Core	4.55	4.3	36.8	33569.7	72484	32.3	34.8	16.9	199	1.44	65	1.0	0.9	120	368.6	27.6	<0.5	106	<0.01	0.078
3200915	Drill Core	3.93	3.2	67.9	39025.7	121133	45.6	24.9	17.4	263	1.69	46	1.4	0.6	108	604.4	29.8	<0.5	70	0.01	0.089
3200916	Drill Core	4.06	5.7	35.9	25868.1	53993	32.3	48.3	21.0	166	1.67	90	1.3	1.6	140	278.1	22.5	<0.5	172	0.01	0.091
3200917	Drill Core	3.48	5.5	22.5	16189.7	35347	19.5	34.4	13.7	310	1.89	45	1.2	1.3	135	151.1	14.5	<0.5	121	0.01	0.092
3200918	Drill Core	3.74	4.5	32.9	19429.3	71224	29.1	26.2	14.9	268	1.66	52	1.0	1.2	89	355.4	16.4	<0.5	104	<0.01	0.053
3200919	Drill Core	5.21	3.9	34.8	25781.9	78771	44.9	22.7	15.6	239	1.28	29	0.9	1.0	67	406.7	22.2	<0.5	87	<0.01	0.035
3200920	Rock	1.18	0.9	61.4	11.0	55	<0.5	3.9	10.0	471	3.03	<5	0.9	3.3	104	<0.5	<0.5	0.5	105	1.13	0.061
3200921	Drill Core	2.19	5.4	34.3	35594.3	47878	46.1	28.6	17.4	175	1.24	29	1.2	1.7	84	212.1	28.4	<0.5	134	<0.01	0.044
3200922	Drill Core	2.26	5.3	30.0	>40000	43089	50.9	26.8	17.2	161	1.10	26	1.1	1.4	74	196.7	33.6	<0.5	119	<0.01	0.039
3200923	Drill Core	5.93	1.7	72.2	13866.6	157234	115.7	7.4	10.9	93	0.80	26	<0.5	0.5	60	767.3	20.4	<0.5	25	<0.01	0.005
3200924	Drill Core	4.19	2.4	98.7	22507.0	181187	139.0	13.0	20.0	130	1.17	32	0.5	<0.5	56	900.6	32.6	<0.5	27	<0.01	0.003
3200925	Drill Core	2.98	6.2	81.6	22774.0	118373	58.1	26.8	27.8	210	1.68	76	1.1	1.4	53	542.5	26.8	<0.5	131	<0.01	0.023
3200926	Drill Core	3.96	5.4	84.8	17498.0	103875	50.1	34.8	31.3	216	1.39	71	1.5	1.4	130	509.2	24.1	<0.5	130	<0.01	0.081
3200927	Drill Core	3.18	6.7	72.8	>40000	87594	81.7	30.2	21.8	404	1.91	51	1.4	1.3	99	404.0	62.4	<0.5	171	<0.01	0.061
3200928	Drill Core	3.17	6.4	37.3	15149.5	29601	26.0	47.4	26.1	162	1.47	70	1.5	2.2	111	137.0	23.1	<0.5	219	<0.01	0.070
3200929	Drill Core	3.61	5.1	60.7	32478.8	79902	53.4	30.3	18.1	227	1.53	65	1.1	1.4	106	365.8	49.5	<0.5	141	<0.01	0.071
3200930	Drill Core	3.59	5.8	57.2	26067.6	81176	45.9	32.9	21.2	196	1.35	68	1.0	1.5	95	377.1	44.4	<0.5	139	<0.01	0.062
3200931	Drill Core	3.50	3.8	89.6	>40000	126507	72.6	19.5	13.9	465	1.85	39	0.9	1.0	91	575.3	69.3	<0.5	88	<0.01	0.066
3200932	Drill Core	2.22	5.9	58.5	20343.6	78416	42.0	36.4	20.0	495	2.21	84	1.1	1.6	97	364.8	37.5	<0.5	177	<0.01	0.076
3200933	Drill Core	3.38	4.0	93.7	36989.1	91085	76.7	16.9	13.2	511	1.83	40	1.3	0.6	104	390.2	55.0	<0.5	42	<0.01	0.091
3200934	Drill Core	5.00	4.4	73.1	23668.8	73597	48.6	23.8	16.6	447	1.60	43	1.9	0.9	127	345.5	51.4	<0.5	71	<0.01	0.082
3200935	Drill Core	4.49	5.3	57.1	23220.6	46478	40.6	29.9	15.9	1121	3.39	60	0.9	1.0	66	206.8	44.9	<0.5	92	0.02	0.022
3200936	Drill Core	3.77	5.9	30.8	1518.4	23939	4.1	61.0	21.5	448	2.12	113	1.1	1.3	62	106.1	13.9	<0.5	138	<0.01	0.033
3200937	Drill Core	3.71	4.6	150.3	>40000	116962	78.5	28.0	15.2	591	1.91	46	0.7	1.1	43	518.5	99.7	<0.5	66	<0.01	0.014
3200938	Drill Core	3.69	4.2	98.4	27131.6	65697	47.6	22.1	16.1	530	1.70	48	1.0	1.1	49	292.9	53.2	<0.5	77	0.01	0.020
3200939	Drill Core	4.93	4.5	185.6	>40000	146807	104.1	17.3	21.3	329	1.46	64	0.7	1.0	40	633.1	110.2	<0.5	108	0.02	0.013



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200910	Drill Core	15.1	128.6	<0.01	341	0.168	0.66	<0.01	<0.01	<0.5	31.20	0.9	1.9	4.40	<5	4	57.46	4.22	3.72	0.03	0.02
3200911	Drill Core	7.3	86.2	<0.01	144	0.130	0.46	<0.01	<0.01	<0.5	72.82	<0.5	3.0	8.55	<5	8	26.28	2.39	3.14	0.03	0.01
3200912	Drill Core	6.3	52.7	<0.01	171	0.079	0.64	<0.01	<0.01	<0.5	72.68	0.9	3.1	7.73	<5	5	31.19	2.76	3.76	0.03	<0.01
3200913	Drill Core	4.1	30.3	<0.01	158	0.046	0.42	<0.01	<0.01	<0.5	56.74	0.6	2.0	7.34	<5	6	30.04	1.31	3.68	0.04	0.01
3200914	Drill Core	4.1	26.3	<0.01	297	0.037	0.48	<0.01	<0.01	<0.5	47.59	0.7	1.4	4.77	<5	3	38.89	1.35	2.24	0.03	0.02
3200915	Drill Core	3.2	17.8	<0.01	165	0.022	0.37	<0.01	<0.01	<0.5	92.24	0.6	1.5	7.65	<5	4	37.63	0.93	2.46	0.03	<0.01
3200916	Drill Core	7.8	42.2	<0.01	332	0.052	0.48	<0.01	<0.01	<0.5	43.51	0.7	1.5	4.11	<5	4	65.93	1.93	2.42	0.03	0.02
3200917	Drill Core	7.8	29.6	<0.01	420	0.039	0.44	<0.01	<0.01	<0.5	26.18	1.0	1.8	2.86	<5	<2	70.31	1.47	2.77	0.04	0.01
3200918	Drill Core	6.2	26.6	<0.01	335	0.033	0.37	<0.01	<0.01	<0.5	52.33	0.7	1.3	4.50	<5	<2	59.25	1.26	2.41	0.02	0.02
3200919	Drill Core	5.1	23.2	<0.01	241	0.029	0.27	<0.01	<0.01	<0.5	65.13	0.6	1.2	4.73	<5	2	46.80	1.13	1.82	0.02	<0.01
3200920	Rock	7.6	5.6	0.86	242	0.191	2.04	0.29	0.33	<0.5	0.06	3.6	<0.5	<0.05	6	<2	59.97	16.65	6.36	6.22	2.86
3200921	Drill Core	7.1	32.7	<0.01	400	0.043	0.30	<0.01	0.01	<0.5	42.58	1.0	1.6	3.44	<5	<2	56.85	1.77	1.78	0.02	0.03
3200922	Drill Core	6.6	28.0	<0.01	502	0.039	0.29	<0.01	0.01	<0.5	39.60	1.2	1.2	3.22	<5	2	58.62	1.70	1.72	0.03	0.03
3200923	Drill Core	0.7	6.6	<0.01	126	0.008	0.08	<0.01	<0.01	<0.5	149.02	<0.5	1.5	8.63	7	4	28.65	0.37	1.13	0.02	<0.01
3200924	Drill Core	0.6	6.9	<0.01	118	0.009	0.06	<0.01	<0.01	<0.5	180.53	<0.5	2.3	10.12	6	4	33.22	0.37	1.63	<0.01	0.01
3200925	Drill Core	6.7	37.5	<0.01	271	0.044	0.15	<0.01	<0.01	<0.5	133.82	0.7	1.5	7.06	<5	4	62.01	1.17	2.31	0.02	0.01
3200926	Drill Core	6.6	39.9	<0.01	207	0.047	0.31	<0.01	<0.01	<0.5	133.68	0.6	1.2	5.94	<5	3	54.77	1.45	2.04	0.03	0.02
3200927	Drill Core	5.8	39.7	<0.01	216	0.053	0.31	<0.01	<0.01	<0.5	108.86	0.6	1.3	5.77	<5	5	57.05	1.62	2.73	0.03	0.03
3200928	Drill Core	10.7	50.4	<0.01	605	0.066	0.55	<0.01	<0.01	<0.5	35.23	0.6	0.9	2.65	<5	<2	78.37	2.62	2.04	0.02	<0.01
3200929	Drill Core	5.2	32.0	<0.01	262	0.047	0.37	<0.01	<0.01	0.6	85.93	0.6	1.1	5.18	<5	<2	66.56	1.59	2.15	0.02	0.01
3200930	Drill Core	5.8	30.6	<0.01	392	0.046	0.41	<0.01	<0.01	<0.5	93.34	<0.5	1.1	5.00	<5	2	71.78	1.39	1.93	0.03	0.03
3200931	Drill Core	3.9	19.9	<0.01	191	0.028	0.31	<0.01	<0.01	<0.5	143.69	0.7	1.1	7.23	<5	4	58.85	0.98	2.61	0.02	0.01
3200932	Drill Core	7.0	40.2	<0.01	261	0.054	0.55	<0.01	<0.01	0.6	58.54	<0.5	1.2	5.06	<5	4	71.08	1.97	3.11	0.02	<0.01
3200933	Drill Core	1.6	11.8	<0.01	228	0.014	0.27	<0.01	<0.01	<0.5	118.77	0.7	1.7	5.35	<5	3	61.32	0.90	2.59	0.03	<0.01
3200934	Drill Core	3.8	15.5	<0.01	358	0.023	0.33	<0.01	<0.01	0.8	91.23	1.4	1.0	4.27	<5	3	51.34	1.12	2.27	0.03	0.02
3200935	Drill Core	4.4	22.0	<0.01	691	0.031	0.35	<0.01	<0.01	<0.5	44.94	1.9	1.0	3.22	<5	<2	79.23	1.35	4.88	0.04	0.03
3200936	Drill Core	7.3	32.0	<0.01	1179	0.048	0.71	<0.01	<0.01	<0.5	24.01	0.8	0.9	1.99	5	<2	84.68	2.15	3.18	0.03	0.01
3200937	Drill Core	3.5	16.5	<0.01	311	0.023	0.51	<0.01	<0.01	<0.5	98.66	1.2	1.4	6.62	6	5	68.37	1.31	2.75	0.03	0.02
3200938	Drill Core	3.6	18.8	<0.01	449	0.026	0.40	<0.01	<0.01	<0.5	76.90	1.1	0.7	3.96	<5	<2	77.20	0.96	2.41	0.04	0.02
3200939	Drill Core	4.2	20.8	<0.01	187	0.036	0.65	<0.01	<0.01	<0.5	177.93	1.4	1.4	8.76	7	5	62.58	1.28	1.88	0.05	0.01



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3200910 Drill Core	<0.01	0.06	0.37	0.27	0.01	12.56	<0.01	1.37	4.82	7.93	95.66	0.11	0.22	7.53	0.09	<0.02	0.42	2.03	16.49	
3200911 Drill Core	<0.01	0.06	0.27	0.14	0.01	23.30	<0.01	4.66	13.07	7.84	87.57	0.08	0.21	14.02	0.10	<0.02	0.36	1.59	37.29	
3200912 Drill Core	<0.01	0.09	0.18	0.20	0.01	20.57	<0.01	3.23	13.12	8.37	89.49	0.05	0.34	13.02	0.13	<0.02	0.72	1.22	35.40	
3200913 Drill Core	<0.01	0.10	0.12	0.19	<0.01	22.88	<0.01	6.28	10.79	6.86	88.21	0.02	0.37	12.93	0.13	<0.02	0.85	1.60	33.99	
3200914 Drill Core	<0.01	0.05	0.08	0.20	<0.01	23.59	<0.01	3.23	7.47	5.14	87.19	0.01	0.15	10.75	0.06	<0.02	0.27	1.11	28.91	
3200915 Drill Core	<0.01	0.06	0.05	0.20	<0.01	19.79	<0.01	3.78	12.71	6.22	89.71	0.01	0.18	12.45	0.08	<0.02	0.34	1.84	31.83	
3200916 Drill Core	<0.01	0.04	0.12	0.26	<0.01	9.52	<0.01	2.48	5.55	5.32	96.30	0.03	0.11	6.81	0.04	<0.02	0.19	1.67	15.44	
3200917 Drill Core	<0.01	0.06	0.10	0.21	<0.01	8.99	<0.01	1.57	3.61	4.67	95.94	0.02	0.18	5.35	0.06	<0.02	0.40	1.26	12.26	
3200918 Drill Core	<0.01	0.06	0.10	0.12	<0.01	12.83	<0.01	1.93	7.23	5.11	93.86	0.02	0.19	7.91	0.08	<0.02	0.38	1.36	19.64	
3200919 Drill Core	<0.01	0.06	0.08	0.08	<0.01	19.09	<0.01	2.50	7.95	4.94	88.88	0.02	0.17	9.51	0.07	<0.02	0.33	0.98	25.57	
3200920 Rock	1.49	0.15	0.53	0.14	<0.01	0.07	<0.01	<0.01	<0.01	0.92	98.72	0.02	0.05	0.02	0.03	<0.02	<0.08	<0.05	0.26	
3200921 Drill Core	0.08	0.04	0.13	0.11	<0.01	14.54	<0.01	3.33	4.77	5.21	91.83	0.02	0.15	7.29	0.08	<0.02	0.22	1.05	18.71	
3200922 Drill Core	0.08	0.04	0.12	0.09	<0.01	14.42	<0.01	4.06	4.41	4.88	93.33	0.02	0.13	6.91	0.06	<0.02	0.20	1.03	17.64	
3200923 Drill Core	<0.01	0.04	0.02	0.01	<0.01	24.30	<0.01	1.38	16.28	5.21	84.47	<0.01	0.08	14.46	0.05	<0.02	0.12	4.15	30.93	
3200924 Drill Core	<0.01	0.04	0.04	<0.01	<0.01	19.64	<0.01	2.19	18.24	6.00	88.50	<0.01	0.09	14.90	0.05	<0.02	0.14	5.00	29.69	
3200925 Drill Core	<0.01	0.05	0.13	0.06	<0.01	7.33	<0.01	2.16	11.96	6.14	97.43	0.03	0.12	9.23	0.05	<0.02	0.23	1.92	21.91	
3200926 Drill Core	<0.01	0.05	0.12	0.19	<0.01	12.82	<0.01	1.70	10.45	5.98	93.89	0.02	0.12	9.54	0.06	<0.02	0.20	1.19	25.04	
3200927 Drill Core	<0.01	0.07	0.14	0.16	<0.01	8.84	<0.01	5.34	8.77	7.07	95.50	0.03	0.26	8.38	0.10	<0.02	0.55	1.38	21.00	
3200928 Drill Core	<0.01	0.04	0.14	0.19	<0.01	4.30	<0.01	1.39	2.98	4.80	98.24	0.04	0.15	3.86	0.09	0.02	0.17	1.28	7.75	
3200929 Drill Core	<0.01	0.05	0.09	0.17	<0.01	6.97	<0.01	3.06	8.09	5.88	97.76	0.03	0.14	7.13	0.07	<0.02	0.21	1.62	16.51	
3200930 Drill Core	<0.01	0.05	0.10	0.17	<0.01	4.74	<0.01	2.56	8.21	5.23	99.05	0.02	0.19	6.36	0.12	0.02	0.18	1.36	15.02	
3200931 Drill Core	<0.01	0.08	0.06	0.19	<0.01	6.83	<0.01	4.55	12.52	6.80	97.80	0.01	0.30	9.39	0.14	<0.02	0.58	1.61	23.36	
3200932 Drill Core	<0.01	0.08	0.12	0.23	<0.01	3.41	<0.01	1.91	7.91	6.13	98.54	0.03	0.53	6.19	0.27	0.09	0.65	1.30	14.66	
3200933 Drill Core	<0.01	0.09	0.06	0.25	<0.01	8.84	<0.01	3.53	9.18	5.82	96.25	<0.01	0.28	7.80	0.10	<0.02	0.64	1.17	19.89	
3200934 Drill Core	<0.01	0.08	0.06	0.25	<0.01	17.21	<0.01	2.33	7.33	5.34	91.42	0.01	0.28	8.49	0.12	<0.02	0.56	1.19	21.88	
3200935 Drill Core	<0.01	0.16	0.07	0.06	<0.01	1.03	<0.01	2.17	4.80	4.45	99.80	0.01	0.75	3.76	0.28	0.03	1.61	0.91	8.56	
3200936 Drill Core	<0.01	0.08	0.11	0.08	<0.01	2.41	<0.01	0.15	2.34	3.56	99.72	0.03	0.52	2.84	0.24	0.13	0.52	1.18	4.95	
3200937 Drill Core	<0.01	0.09	0.06	0.03	<0.01	1.83	<0.01	4.37	11.66	5.18	99.22	0.01	0.42	7.62	0.24	<0.02	0.61	1.52	18.30	
3200938 Drill Core	<0.01	0.09	0.07	0.04	<0.01	1.88	<0.01	2.60	6.62	3.96	98.00	0.01	0.53	4.80	0.34	0.06	0.50	1.06	11.21	
3200939 Drill Core	0.01	0.07	0.06	0.03	<0.01	1.94	<0.01	6.35	15.37	5.38	99.59	0.02	0.51	9.73	0.39	0.04	0.28	7.33	7.21	



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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: August 23, 2019

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CERTIFICATE OF ANALYSIS

WHI19000281.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200940	Rock Pulp	0.05	4.0	454.4	35494.0	48150	55.4	18.3	45.2	2149	7.35	145	1.6	6.3	24	161.6	43.8	<0.5	<10	4.87	0.052
3200941	Drill Core	1.93	9.7	147.0	>40000	103012	73.0	37.3	35.6	343	2.45	121	2.0	2.4	39	480.7	80.6	<0.5	231	0.05	0.028
3200942	Drill Core	1.90	11.7	219.8	>40000	195494	125.8	42.6	43.9	328	3.09	121	2.2	2.0	29	860.0	132.2	<0.5	303	0.03	0.016
3200943	Drill Core	4.63	6.9	128.6	>40000	134180	79.8	40.9	30.6	336	2.88	112	1.8	1.4	27	602.5	97.8	<0.5	164	0.06	0.030
3200944	Drill Core	6.41	5.9	189.6	>40000>200000	305.2	23.0	22.1	1099	2.11	49	1.7	1.6	21	1208.5	374.4	<0.5	166	0.06	0.026	
3200945	Drill Core	4.56	4.6	144.5	>40000	122067	82.4	15.0	14.0	267	1.23	65	0.8	0.9	12	599.0	117.8	<0.5	117	0.03	0.011
3200946	Drill Core	4.23	9.8	69.5	19245.7	38422	33.7	53.2	35.3	228	3.16	189	1.6	2.3	55	216.0	53.7	<0.5	304	0.14	0.063
3200947	Drill Core	5.85	20.8	45.2	408.3	761	1.9	77.6	7.2	107	2.39	79	2.5	5.2	86	4.2	25.5	<0.5	675	0.21	0.107
3200948	Drill Core	5.61	3.5	28.5	404.1	116	1.5	40.8	8.9	174	2.17	53	1.0	2.9	27	<0.5	10.6	<0.5	103	0.10	0.043
3200949	Drill Core	6.35	3.7	30.0	474.2	37	2.0	39.3	9.6	250	2.53	54	1.0	3.7	57	<0.5	12.1	<0.5	44	0.17	0.044
3200950	Drill Core	6.20	23.1	54.6	260.2	284	3.2	80.1	6.9	84	2.56	65	2.8	5.7	51	1.1	29.9	<0.5	162	0.24	0.112
3200951	Drill Core	6.37	19.2	45.2	207.8	639	2.9	68.3	5.7	68	2.30	57	2.3	4.9	38	3.4	24.6	<0.5	118	0.20	0.092
3200952	Drill Core	5.38	16.5	45.8	693.5	1579	4.8	59.6	5.4	160	2.21	46	2.4	4.6	39	8.5	26.0	<0.5	122	0.23	0.099
3200953	Drill Core	5.90	16.6	39.6	617.5	315	3.3	64.8	5.2	98	2.51	66	2.3	4.1	39	1.6	22.4	<0.5	96	0.20	0.085



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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: August 23, 2019

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200940	Rock Pulp	21.9	13.9	2.65	233	0.017	0.96	0.01	0.61	<0.5	0.78	2.8	43.4	7.52	<5	<2	37.82	7.54	10.98	6.89	4.85
3200941	Drill Core	7.3	53.8	<0.01	214	0.073	1.18	<0.01	0.02	<0.5	102.69	0.9	1.8	6.71	11	5	65.50	2.32	3.76	0.10	0.02
3200942	Drill Core	6.4	58.1	<0.01	122	0.097	1.14	<0.01	0.02	<0.5	176.01	1.7	2.5	12.77	11	7	45.51	2.23	4.68	0.04	0.02
3200943	Drill Core	4.8	30.1	<0.01	139	0.051	1.07	<0.01	0.02	<0.5	127.40	1.9	1.2	8.83	10	5	58.97	2.21	4.18	0.08	0.02
3200944	Drill Core	4.8	34.2	<0.01	102	0.053	0.57	<0.01	<0.01	0.6	262.06	2.9	1.5	14.81	9	12	30.91	1.18	3.24	0.07	0.02
3200945	Drill Core	2.8	19.7	<0.01	228	0.037	0.46	<0.01	0.01	<0.5	88.94	1.4	0.8	7.05	6	5	69.28	1.02	1.84	0.02	0.01
3200946	Drill Core	9.1	66.9	<0.01	552	0.095	2.01	<0.01	0.07	<0.5	24.98	3.1	1.0	3.79	10	11	73.15	3.97	4.65	0.17	0.02
3200947	Drill Core	22.5	104.5	<0.01	>5000	0.178	4.78	0.03	0.13	0.5	0.61	4.5	0.9	0.22	18	4	68.40	9.06	3.53	0.28	0.02
3200948	Drill Core	11.8	22.5	<0.01	>5000	0.025	2.63	0.01	0.08	<0.5	0.20	2.7	<0.5	0.59	7	<2	79.72	5.28	3.29	0.13	0.04
3200949	Drill Core	12.6	11.9	0.05	2856	0.002	2.82	<0.01	0.06	<0.5	0.23	3.8	<0.5	0.89	6	<2	76.75	5.98	3.97	0.23	0.15
3200950	Drill Core	20.1	26.2	0.01	>5000	0.004	4.30	<0.01	0.11	<0.5	0.50	4.4	0.6	0.49	9	5	65.96	9.86	4.00	0.33	0.15
3200951	Drill Core	17.4	17.3	<0.01	4314	0.003	3.62	<0.01	0.09	<0.5	0.69	3.6	0.6	0.62	7	4	69.22	8.72	3.62	0.27	0.16
3200952	Drill Core	17.2	20.4	0.01	>5000	0.003	3.27	<0.01	0.10	<0.5	1.26	4.6	0.6	0.61	6	3	72.04	7.80	3.51	0.30	0.15
3200953	Drill Core	13.8	16.9	<0.01	2361	0.003	3.06	<0.01	0.10	<0.5	0.52	3.9	0.6	1.05	6	3	71.47	7.46	3.89	0.27	0.14



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: August 23, 2019

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200940	Rock Pulp	3.57	0.30	0.25	0.11	<0.01	0.08	0.04	3.56	4.96	15.96	98.62	<0.01	3.33	8.02	0.58	<0.02	10.03	4.02	12.01	
3200941	Drill Core	0.03	0.07	0.19	0.07	<0.01	3.80	<0.01	4.13	10.80	5.66	100.00	0.05	0.98	8.31	0.79	0.12	0.23	4.15	12.47	
3200942	Drill Core	0.01	0.07	0.22	0.05	0.01	4.57	0.02	7.12	20.10	8.70	99.47	0.06	1.07	14.10	0.94	0.06	0.23	9.56	13.63	
3200943	Drill Core	0.01	0.07	0.11	0.08	<0.01	3.56	<0.01	4.49	13.79	6.72	98.57	0.03	0.86	10.20	0.61	0.16	0.30	3.52	20.03	
3200944	Drill Core	<0.01	0.17	0.10	0.06	<0.01	2.15	0.01	19.27	>24	8.31	98.70	0.03	0.92	15.51	0.63	0.06	0.84	9.49	18.05	25.8
3200945	Drill Core	<0.01	0.06	0.06	0.04	0.02	1.32	<0.01	4.85	12.21	4.26	98.54	0.03	0.57	7.60	0.45	0.09	0.12	5.40	6.62	
3200946	Drill Core	0.08	0.05	0.19	0.16	0.01	4.79	<0.01	1.94	3.78	4.54	99.18	0.06	1.45	5.18	0.65	0.75	0.18	3.18	6.00	
3200947	Drill Core	0.21	0.04	0.46	0.24	0.02	11.54	<0.01	0.02	0.08	3.65	98.95	0.14	1.98	2.53	1.07	0.90	<0.08	2.39	0.43	
3200948	Drill Core	0.15	0.04	0.28	0.12	0.01	6.23	<0.01	0.02	<0.01	2.29	98.39	0.03	0.66	2.05	0.37	0.26	0.10	1.95	0.30	
3200949	Drill Core	0.26	0.05	0.32	0.10	0.01	6.82	<0.01	0.03	<0.01	3.31	98.80	0.04	0.78	2.62	0.42	0.29	0.24	2.44	0.54	
3200950	Drill Core	0.64	0.03	0.51	0.28	0.02	10.57	<0.01	0.02	0.02	5.63	99.28	0.16	2.36	3.02	1.40	0.96	<0.08	2.88	0.41	
3200951	Drill Core	0.65	0.04	0.44	0.23	0.01	8.96	<0.01	0.02	0.06	5.16	98.64	0.14	2.17	2.61	1.25	0.92	<0.08	2.46	0.44	
3200952	Drill Core	0.58	0.05	0.39	0.25	0.01	7.89	<0.01	0.05	0.17	4.57	98.73	0.12	2.04	2.47	1.11	0.91	<0.08	2.32	0.44	
3200953	Drill Core	0.59	0.04	0.37	0.23	0.01	7.38	<0.01	0.04	0.02	5.11	97.89	0.12	2.30	2.92	1.11	1.18	<0.08	2.78	0.41	



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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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August 23, 2019

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QUALITY CONTROL REPORT

WHI19000281.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
Pulp Duplicates																					
3200915	Drill Core	3.93	3.2	67.9	39025.7	121133	45.6	24.9	17.4	263	1.69	46	1.4	0.6	108	604.4	29.8	<0.5	70	0.01	0.089
REP 3200915	QC																				
3200922	Drill Core	2.26	5.3	30.0	>40000	43089	50.9	26.8	17.2	161	1.10	26	1.1	1.4	74	196.7	33.6	<0.5	119	<0.01	0.039
REP 3200922	QC		5.3	27.8	>40000	43112	50.1	26.9	16.9	166	1.11	24	1.0	1.4	76	196.1	33.4	<0.5	121	<0.01	0.035
3200925	Drill Core	2.98	6.2	81.6	22774.0	118373	58.1	26.8	27.8	210	1.68	76	1.1	1.4	53	542.5	26.8	<0.5	131	<0.01	0.023
REP 3200925	QC																				
3200926	Drill Core	3.96	5.4	84.8	17498.0	103875	50.1	34.8	31.3	216	1.39	71	1.5	1.4	130	509.2	24.1	<0.5	130	<0.01	0.081
REP 3200926	QC																				
3200928	Drill Core	3.17	6.4	37.3	15149.5	29601	26.0	47.4	26.1	162	1.47	70	1.5	2.2	111	137.0	23.1	<0.5	219	<0.01	0.070
REP 3200928	QC																				
3200929	Drill Core	3.61	5.1	60.7	32478.8	79902	53.4	30.3	18.1	227	1.53	65	1.1	1.4	106	365.8	49.5	<0.5	141	<0.01	0.071
REP 3200929	QC																				
3200935	Drill Core	4.49	5.3	57.1	23220.6	46478	40.6	29.9	15.9	1121	3.39	60	0.9	1.0	66	206.8	44.9	<0.5	92	0.02	0.022
REP 3200935	QC																				
3200944	Drill Core	6.41	5.9	189.6	>40000>200000	305.2	23.0	22.1	1099	2.11	49	1.7	1.6	21	1208.5	374.4	<0.5	166	0.06	0.026	
REP 3200944	QC																				
3200946	Drill Core	4.23	9.8	69.5	19245.7	38422	33.7	53.2	35.3	228	3.16	189	1.6	2.3	55	216.0	53.7	<0.5	304	0.14	0.063
REP 3200946	QC		10.2	67.9	19486.8	38188	33.4	51.7	33.9	233	3.14	188	1.6	2.3	54	213.6	52.4	<0.5	306	0.14	0.073
3200947	Drill Core	5.85	20.8	45.2	408.3	761	1.9	77.6	7.2	107	2.39	79	2.5	5.2	86	4.2	25.5	<0.5	675	0.21	0.107
REP 3200947	QC																				
3200949	Drill Core	6.35	3.7	30.0	474.2	37	2.0	39.3	9.6	250	2.53	54	1.0	3.7	57	<0.5	12.1	<0.5	44	0.17	0.044
REP 3200949	QC																				
3200951	Drill Core	6.37	19.2	45.2	207.8	639	2.9	68.3	5.7	68	2.30	57	2.3	4.9	38	3.4	24.6	<0.5	118	0.20	0.092
REP 3200951	QC																				
Core Reject Duplicates																					
3200937	Drill Core	3.71	4.6	150.3	>40000	116962	78.5	28.0	15.2	591	1.91	46	0.7	1.1	43	518.5	99.7	<0.5	66	<0.01	0.014
DUP 3200937	QC		4.4	145.3	>40000	115003	80.0	29.6	14.8	570	1.86	47	0.9	1.0	40	519.7	99.0	<0.5	65	<0.01	0.012
Reference Materials																					



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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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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
Pulp Duplicates																					
3200915	Drill Core	3.2	17.8	<0.01	165	0.022	0.37	<0.01	<0.01	<0.5	92.24	0.6	1.5	7.65	<5	4	37.63	0.93	2.46	0.03	<0.01
REP 3200915	QC																37.63	0.96	2.42	0.04	0.01
3200922	Drill Core	6.6	28.0	<0.01	502	0.039	0.29	<0.01	0.01	<0.5	39.60	1.2	1.2	3.22	<5	2	58.62	1.70	1.72	0.03	0.03
REP 3200922	QC	6.3	28.7	<0.01	475	0.039	0.28	<0.01	0.01	<0.5	39.33	0.9	1.2	3.26	<5	3					
3200925	Drill Core	6.7	37.5	<0.01	271	0.044	0.15	<0.01	<0.01	<0.5	133.82	0.7	1.5	7.06	<5	4	62.01	1.17	2.31	0.02	0.01
REP 3200925	QC																				
3200926	Drill Core	6.6	39.9	<0.01	207	0.047	0.31	<0.01	<0.01	<0.5	133.68	0.6	1.2	5.94	<5	3	54.77	1.45	2.04	0.03	0.02
REP 3200926	QC																54.68	1.40	2.04	0.03	0.02
3200928	Drill Core	10.7	50.4	<0.01	605	0.066	0.55	<0.01	<0.01	<0.5	35.23	0.6	0.9	2.65	<5	<2	78.37	2.62	2.04	0.02	<0.01
REP 3200928	QC																				
3200929	Drill Core	5.2	32.0	<0.01	262	0.047	0.37	<0.01	<0.01	0.6	85.93	0.6	1.1	5.18	<5	<2	66.56	1.59	2.15	0.02	0.01
REP 3200929	QC																				
3200935	Drill Core	4.4	22.0	<0.01	691	0.031	0.35	<0.01	<0.01	<0.5	44.94	1.9	1.0	3.22	<5	<2	79.23	1.35	4.88	0.04	0.03
REP 3200935	QC																				
3200944	Drill Core	4.8	34.2	<0.01	102	0.053	0.57	<0.01	<0.01	0.6	262.06	2.9	1.5	14.81	9	12	30.91	1.18	3.24	0.07	0.02
REP 3200944	QC																				
3200946	Drill Core	9.1	66.9	<0.01	552	0.095	2.01	<0.01	0.07	<0.5	24.98	3.1	1.0	3.79	10	11	73.15	3.97	4.65	0.17	0.02
REP 3200946	QC	9.3	69.7	<0.01	638	0.095	1.99	<0.01	0.07	<0.5	23.56	3.6	1.0	3.75	10	10					
3200947	Drill Core	22.5	104.5	<0.01	>5000	0.178	4.78	0.03	0.13	0.5	0.61	4.5	0.9	0.22	18	4	68.40	9.06	3.53	0.28	0.02
REP 3200947	QC																67.19	8.89	3.54	0.27	<0.01
3200949	Drill Core	12.6	11.9	0.05	2856	0.002	2.82	<0.01	0.06	<0.5	0.23	3.8	<0.5	0.89	6	<2	76.75	5.98	3.97	0.23	0.15
REP 3200949	QC																				
3200951	Drill Core	17.4	17.3	<0.01	4314	0.003	3.62	<0.01	0.09	<0.5	0.69	3.6	0.6	0.62	7	4	69.22	8.72	3.62	0.27	0.16
REP 3200951	QC																				
Core Reject Duplicates																					
3200937	Drill Core	3.5	16.5	<0.01	311	0.023	0.51	<0.01	<0.01	<0.5	98.66	1.2	1.4	6.62	6	5	68.37	1.31	2.75	0.03	0.02
DUP 3200937	QC	3.4	15.6	<0.01	238	0.023	0.50	<0.01	<0.01	<0.5	96.58	1.3	1.4	6.58	6	4	68.45	1.33	2.65	0.03	<0.01
Reference Materials																					



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PHONE (604) 253-3158

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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
Pulp Duplicates																					
3200915	Drill Core	<0.01	0.06	0.05	0.20	<0.01	19.79	<0.01	3.78	12.71	6.22	89.71	0.01	0.18	12.45	0.08	<0.02	0.34	1.84	31.83	
REP 3200915	QC	<0.01	0.06	0.06	0.20	<0.01	19.67	<0.01	3.68	12.60	6.22	89.31	<0.01								
3200922	Drill Core	0.08	0.04	0.12	0.09	<0.01	14.42	<0.01	4.06	4.41	4.88	93.33	0.02	0.13	6.91	0.06	<0.02	0.20	1.03	17.64	
REP 3200922	QC																				
3200925	Drill Core	<0.01	0.05	0.13	0.06	<0.01	7.33	<0.01	2.16	11.96	6.14	97.43	0.03	0.12	9.23	0.05	<0.02	0.23	1.92	21.91	
REP 3200925	QC																<0.02				
3200926	Drill Core	<0.01	0.05	0.12	0.19	<0.01	12.82	<0.01	1.70	10.45	5.98	93.89	0.02	0.12	9.54	0.06	<0.02	0.20	1.19	25.04	
REP 3200926	QC	<0.01	0.05	0.12	0.19	<0.01	12.80	<0.01	1.69	10.55	5.98	93.87	0.02								
3200928	Drill Core	<0.01	0.04	0.14	0.19	<0.01	4.30	<0.01	1.39	2.98	4.80	98.24	0.04	0.15	3.86	0.09	0.02	0.17	1.28	7.75	
REP 3200928	QC													0.15	3.83						
3200929	Drill Core	<0.01	0.05	0.09	0.17	<0.01	6.97	<0.01	3.06	8.09	5.88	97.76	0.03	0.14	7.13	0.07	<0.02	0.21	1.62	16.51	
REP 3200929	QC																			16.82	
3200935	Drill Core	<0.01	0.16	0.07	0.06	<0.01	1.03	<0.01	2.17	4.80	4.45	99.80	0.01	0.75	3.76	0.28	0.03	1.61	0.91	8.56	
REP 3200935	QC																	1.64			
3200944	Drill Core	<0.01	0.17	0.10	0.06	<0.01	2.15	0.01	19.27	>24	8.31	98.70	0.03	0.92	15.51	0.63	0.06	0.84	9.49	18.05	25.8
REP 3200944	QC																				25.7
3200946	Drill Core	0.08	0.05	0.19	0.16	0.01	4.79	<0.01	1.94	3.78	4.54	99.18	0.06	1.45	5.18	0.65	0.75	0.18	3.18	6.00	
REP 3200946	QC																				
3200947	Drill Core	0.21	0.04	0.46	0.24	0.02	11.54	<0.01	0.02	0.08	3.65	98.95	0.14	1.98	2.53	1.07	0.90	<0.08	2.39	0.43	
REP 3200947	QC	0.20	0.04	0.45	0.25	0.02	11.34	<0.01	0.03	0.07	3.65	97.34	0.14				0.90				
3200949	Drill Core	0.26	0.05	0.32	0.10	0.01	6.82	<0.01	0.03	<0.01	3.31	98.80	0.04	0.78	2.62	0.42	0.29	0.24	2.44	0.54	
REP 3200949	QC																			0.51	
3200951	Drill Core	0.65	0.04	0.44	0.23	0.01	8.96	<0.01	0.02	0.06	5.16	98.64	0.14	2.17	2.61	1.25	0.92	<0.08	2.46	0.44	
REP 3200951	QC																	<0.08			
Core Reject Duplicates																					
3200937	Drill Core	<0.01	0.09	0.06	0.03	<0.01	1.83	<0.01	4.37	11.66	5.18	99.22	0.01	0.42	7.62	0.24	<0.02	0.61	1.52	18.30	
DUP 3200937	QC	<0.01	0.09	0.07	0.03	<0.01	1.88	<0.01	4.42	11.74	5.23	99.42	0.01	0.42	7.60	0.23	0.02	0.63	1.65	17.87	
Reference Materials																					



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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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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD COO1	Standard																			
STD COO1	Standard																			
STD COO1	Standard																			
STD COO1	Standard																			
STD GBM309-14	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD OREAS135	Standard		8.3	300.6	17492.6	28094	53.9	35.4	30.0	3997	8.86	911	9.6	11.4	26	65.6	37.5	5.3	32	1.82
STD OREAS133B(D)	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS605	Standard		5.1	47867.8	856.8	2072	952.2	1545.4	93.5	89	3.61	1668	0.9	2.6	42	14.0	287.3	19.1	<10	0.18
STD OREAS605	Standard		5.1	49600.2	917.7	2191	>1000	1555.8	95.4	94	3.72	1728	0.9	3.2	53	14.3	291.3	18.6	<10	0.18
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.0	10861.3	230.8	741	4.0	30.5	30.0	1138	8.19	12	1.7	12.7	14	1.1	1.2	68.6	32	0.29
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD GS311-1 Expected																				



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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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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-14	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	39.3	20.1	0.84	370	0.026	1.09	0.02	0.48	3.0	1.17	3.9	5.8	7.21	5	<2					
STD OREAS133B(D)	Standard																34.74	7.24	11.64	5.31	3.85
STD OREAS133B(D)	Standard																34.58	7.20	11.61	5.27	3.85
STD OREAS605	Standard	7.1	27.6	0.02	147	0.009	0.69	0.03	0.13	6.3	1.61	1.2	15.4	7.72	6	75					
STD OREAS605	Standard	8.1	28.1	0.03	156	0.011	0.76	0.03	0.15	6.4	2.03	1.3	16.0	8.08	7	76					
STD OREAS72B	Standard																51.14	8.88	10.00	3.97	16.07
STD OREAS72B	Standard																51.28	8.90	10.07	3.98	16.11
STD OREAS927-AR	Standard	27.7	41.8	1.92	51	0.084	3.26	<0.01	0.25	4.3	0.06	4.5	<0.5	1.73	9	15					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.76	20.71	6.15	7.97	0.53
STD SY-4(D)	Standard																49.86	20.75	6.18	7.96	0.53
STD GS311-1 Expected																					



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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

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Suite 1020, 800 Pender Street

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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726		
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1	
STD COO1	Standard																	2.36				
STD COO1	Standard																	2.31				
STD COO1	Standard																	2.39				
STD COO1	Standard																	2.37				
STD GBM309-14	Standard																	22.4				
STD GGC-10	Standard																	4.79				
STD GGC-10	Standard																	4.77				
STD GGC-10	Standard																	4.82				
STD GGC-10	Standard																	4.60				
STD GS311-1	Standard													1.00	2.30							
STD GS311-1	Standard													1.00	2.35							
STD GS311-1	Standard													0.96	2.37							
STD GS910-4	Standard													2.73	8.69							
STD GS910-4	Standard													2.68	8.45							
STD GS910-4	Standard													2.68	8.58							
STD OREAS135	Standard																					
STD OREAS133B(D)	Standard	3.51	0.16	0.22	0.12	<0.01	0.07	0.06	5.08	11.40	13.03	99.82	<0.01									
STD OREAS133B(D)	Standard	3.47	0.16	0.21	0.13	0.01	0.07	0.06	5.07	11.44	13.03	99.56	0.01									
STD OREAS605	Standard																					
STD OREAS605	Standard																					
STD OREAS72B	Standard	1.31	0.15	0.35	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.61	0.01									
STD OREAS72B	Standard	1.33	0.15	0.36	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.87	0.02									
STD OREAS927-AR	Standard																					
STD RTS-3A	Standard																	3.65				
STD RTS-3A	Standard																	3.56				
STD RTS-3A	Standard																	3.67				
STD SY-4(D)	Standard	1.67	0.11	0.29	0.14	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.06	<0.01									
STD SY-4(D)	Standard	1.67	0.11	0.28	0.15	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.23	<0.01									
STD GS311-1 Expected														1.02	2.35							



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PHONE (604) 253-3158

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD GS910-4 Expected																				
STD RTS-3A Expected																				
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83
STD COO1 Expected																				
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182
STD OREAS927-AR Expected			1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3
STD GGC-10 Expected																				
STD GBM309-14 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank		<0.5	2.2	1.0	<5	<0.5	0.6	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
SI BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
BLK	Blank		<0.5	<0.5	2.6	19	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		1.1	3.1	20.7	51	<0.5	1.3	3.1	515	1.91	<5	0.5	2.0	22	<0.5	<0.5	<0.5	22	0.63
ROCK-WHI	Prep Blank		1.2	2.6	6.7	38	<0.5	1.0	3.1	532	1.89	<5	<0.5	2.4	23	<0.5	<0.5	<0.5	21	0.60



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www.bureauveritas.com/um

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:

August 23, 2019

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QUALITY CONTROL REPORT

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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD GS910-4 Expected																					
STD RTS-3A Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD COO1 Expected																					
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74	1.77		9.09	15.5					
STD GGC-10 Expected																					
STD GBM309-14 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
SI BLK	Blank																98.38	0.32	0.01	0.01	0.02
BLK	Blank																				
SI BLK	Blank																98.19	0.31	0.03	<0.01	0.02
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.7	2.9	0.45	158	0.094	0.85	0.09	0.10	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	70.74	13.93	3.27	2.30	0.89
ROCK-WHI	Prep Blank	7.5	2.2	0.42	102	0.092	0.83	0.09	0.10	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	70.88	13.83	3.29	2.22	0.85



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **Fireweed Zinc Ltd.**
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QUALITY CONTROL REPORT

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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726		
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1	
STD GS910-4 Expected		2.65 8.27																				
STD RTS-3A Expected		3.3																				
STD OREAS135 Expected																						
STD COO1 Expected		2.37																				
STD SY-4(D) Expected		1.66	0.108	0.287	0.131	0.0345			4.56													
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193	5.12													
STD OREAS133B(D) Expected					0.08			0.032	5.06	11.35												
STD OREAS605 Expected																						
STD OREAS927-AR Expected																						
STD GGC-10 Expected		4.79																				
STD GBM309-14 Expected		22.7192																				
BLK	Blank													<0.02	<0.02							
BLK	Blank													<0.02	<0.02							
BLK	Blank																		<0.05			
BLK	Blank													<0.02	<0.02							
BLK	Blank																		<0.08			
BLK	Blank																		<0.05			
BLK	Blank																					
SI BLK	Blank	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.74	<0.01									
BLK	Blank																		<0.08			
SI BLK	Blank	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.53	<0.01									
BLK	Blank																					
BLK	Blank																<0.02					
BLK	Blank																<0.02					
SI BLK	Blank	<0.1																				
Prep Wash																						
ROCK-WHI	Prep Blank	1.93	0.10	0.33	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.89	99.25	<0.01	0.11	0.03	0.06	<0.02	0.17	<0.05	0.67		
ROCK-WHI	Prep Blank	2.00	0.10	0.33	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.88	99.21	<0.01	0.12	0.02	0.05	<0.02	0.25	<0.05	0.62		