



**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: August 28, 2019  
Report Date: September 17, 2019  
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## CERTIFICATE OF ANALYSIS

WHI19000473.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ19-BV-025  
P.O. Number  
Number of Samples: 79

### 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.

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	77	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
CRUBW	77	Extra clean rock wash between samples in crusher			WHI
PULSW	77	Extra Wash with Silica between each sample			WHI
AQ270	79	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	79	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	79	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	79	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	79	Inorganic Carbon	0.2	Completed	VAN
TC009	79	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	79	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.

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

CC:



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
3201112	Drill Core	2.05	0.7	15.2	42.0	740	1.0	237.2	32.6	11383	30.98	220	<0.5	0.8	163	2.6	19.0	<0.5	121	0.62	0.164
3201113	Drill Core	1.49	5.3	56.3	54.3	31742	3.0	302.8	48.2	10351	27.86	320	1.5	0.6	167	100.1	36.0	<0.5	122	0.64	0.198
3201114	Drill Core	1.74	2.4	53.2	110.7	30558	5.1	450.0	73.1	9005	25.59	500	1.5	0.9	251	90.7	67.2	<0.5	120	0.69	0.238
3201115	Drill Core	1.53	0.9	61.0	105.8	29684	5.9	589.4	95.4	11766	30.23	477	<0.5	1.0	434	84.1	81.1	<0.5	134	1.02	0.317
3201116	Drill Core	1.32	0.9	44.1	85.7	21071	3.9	477.5	73.1	10816	26.86	257	<0.5	0.6	304	57.9	56.4	<0.5	114	0.92	0.272
3201117	Drill Core	2.13	2.1	77.3	148.7	19966	3.5	545.9	83.8	9318	26.51	574	2.6	0.9	472	65.1	116.8	<0.5	109	1.06	0.382
3201118	Drill Core	1.31	3.3	85.3	205.6	48670	5.6	304.8	34.9	10074	29.29	344	1.9	<0.5	135	148.3	75.2	<0.5	106	0.50	0.114
3201119	Drill Core	1.32	2.4	72.2	184.7	20828	4.6	672.9	80.6	10236	30.16	705	1.5	1.0	179	60.4	116.4	<0.5	100	0.64	0.171
3201120	Rock Pulp	0.05	3.9	435.7	32943.4	47363	54.2	16.5	42.0	2130	7.07	142	1.5	5.9	23	152.2	43.5	<0.5	11	4.72	0.050
3201121	Drill Core	1.33	0.9	76.2	42.8	34941	3.2	150.9	23.7	14239	28.65	70	<0.5	0.6	167	68.3	22.0	<0.5	103	0.69	0.134
3201122	Drill Core	1.71	1.2	39.6	38.6	20185	2.0	164.4	24.7	15927	31.37	83	<0.5	0.6	179	42.6	22.7	<0.5	111	0.72	0.147
3201123	Drill Core	1.03	1.8	23.1	25.1	1735	1.8	56.8	6.8	5763	11.99	39	<0.5	0.9	90	4.1	17.6	<0.5	67	0.30	0.071
3201124	Drill Core	1.76	1.9	28.8	44.3	10540	2.0	75.3	9.2	1900	5.42	82	0.6	0.9	55	25.1	21.7	<0.5	25	0.17	0.059
3201125	Drill Core	2.02	0.9	24.5	59.8	2227	1.3	245.6	37.1	10857	25.16	173	1.3	0.7	139	6.4	27.1	<0.5	103	0.61	0.143
3201126	Drill Core	1.32	1.2	32.6	97.9	3232	3.7	138.8	15.0	5543	19.12	195	1.0	<0.5	61	9.9	38.4	<0.5	56	0.26	0.058
3201127	Drill Core	1.32	2.0	18.9	42.0	508	0.9	85.5	9.4	4230	10.50	85	2.0	0.5	82	1.6	18.6	<0.5	57	0.24	0.070
3201128	Drill Core	1.58	2.5	30.3	84.2	4076	2.0	133.9	15.1	4345	13.15	211	4.2	0.8	145	12.1	29.1	<0.5	68	0.27	0.092
3201129	Drill Core	1.81	1.1	79.4	168.5	70609	5.4	410.4	59.3	10018	27.34	316	7.0	0.8	277	216.2	49.8	<0.5	169	0.81	0.280
3201130	Drill Core	1.13	1.4	39.1	103.9	22961	2.5	269.4	39.7	12200	30.60	268	2.4	0.6	128	79.1	31.7	<0.5	106	0.58	0.116
3201131	Drill Core	1.04	1.2	131.6	264.4	100610	6.9	338.0	49.4	5772	19.63	399	0.9	<0.5	113	349.7	45.4	<0.5	77	0.35	0.088
3201132	Drill Core	1.50	1.2	204.3	545.3	159124	15.0	286.8	41.4	4509	21.36	377	0.7	<0.5	86	511.0	101.9	<0.5	73	0.29	0.064
3201133	Drill Core	1.58	2.2	26.3	212.6	1399	2.8	270.1	41.0	8113	24.43	129	0.7	0.6	105	4.9	40.8	<0.5	103	0.42	0.083
3201134	Drill Core	1.14	1.2	23.2	159.3	5856	2.7	208.1	38.1	6894	20.58	89	0.7	0.6	113	20.9	41.2	<0.5	90	0.34	0.063
3201135	Drill Core	2.40	1.7	138.8	1055.9	77575	21.7	454.1	44.7	1012	34.46	1316	<0.5	0.8	52	293.1	265.6	<0.5	44	0.10	0.022
3201136	Drill Core	0.91	3.0	98.3	1094.9	43261	12.3	359.5	43.6	2530	26.92	730	1.2	<0.5	84	163.3	189.8	<0.5	58	0.16	0.034
3201137	Drill Core	1.11	1.7	45.0	257.6	24508	3.9	187.7	30.0	9815	27.37	101	1.3	<0.5	98	89.2	39.5	<0.5	92	0.41	0.064
3201138	Drill Core	1.15	2.7	53.6	228.6	2991	4.3	340.4	37.7	7692	29.45	407	1.2	<0.5	96	10.2	63.6	<0.5	86	0.33	0.056
3201139	Drill Core	1.37	2.2	242.9	504.0	177966	23.6	592.0	76.2	1685	19.31	1058	1.0	<0.5	95	528.8	176.9	<0.5	44	0.25	0.091
3201140	Rock	1.28	1.0	36.1	2.0	77	<0.5	3.3	7.3	491	2.60	<5	0.7	2.2	79	<0.5	<0.5	<0.5	75	0.99	0.050
3201141	Drill Core	1.35	2.0	34.3	161.3	19121	2.8	341.0	44.0	9227	26.98	356	0.9	0.6	100	63.4	57.5	<0.5	99	0.44	0.086



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Method Analyte Unit MDL		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	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
3201112	Drill Core	1.2	372.6	0.97	47	0.008	1.90	<0.01	<0.01	<0.5	0.66	15.5	<0.5	1.09	6	<2	21.35	4.57	47.21	0.88	1.70
3201113	Drill Core	0.9	418.8	0.75	131	0.014	1.62	<0.01	0.01	<0.5	38.16	15.3	<0.5	3.09	8	<2	22.53	5.28	42.98	0.92	1.34
3201114	Drill Core	2.0	470.8	0.58	294	0.012	1.47	<0.01	0.04	<0.5	40.99	14.1	0.7	4.82	8	3	25.36	6.97	39.37	1.00	1.06
3201115	Drill Core	1.7	533.0	0.86	112	0.016	1.94	0.01	0.02	<0.5	33.38	13.8	1.7	5.54	8	<2	12.67	6.93	45.64	1.46	1.54
3201116	Drill Core	0.9	462.7	0.77	45	0.019	1.61	<0.01	<0.01	<0.5	23.09	14.2	<0.5	4.04	8	<2	21.62	7.07	41.45	1.34	1.39
3201117	Drill Core	0.9	304.2	0.75	230	0.006	1.05	0.02	0.04	<0.5	23.02	15.1	1.4	4.76	<5	<2	15.44	10.14	41.16	1.54	1.34
3201118	Drill Core	0.7	207.4	0.80	55	0.006	0.82	<0.01	<0.01	<0.5	55.05	15.7	0.7	9.17	7	7	18.24	3.26	44.80	0.72	1.44
3201119	Drill Core	1.3	276.9	0.79	242	0.009	1.03	0.01	0.05	<0.5	22.24	14.3	1.9	8.96	<5	<2	11.86	7.88	45.57	0.93	1.42
3201120	Rock Pulp	21.4	13.1	2.54	236	0.017	1.03	0.01	0.66	0.5	0.78	2.9	44.6	7.57	<5	<2	38.29	7.67	11.08	6.93	4.90
3201121	Drill Core	<0.5	245.4	0.94	43	0.005	0.67	<0.01	<0.01	<0.5	38.15	18.7	<0.5	2.85	6	<2	17.53	4.80	43.97	0.98	1.65
3201122	Drill Core	1.1	281.0	1.01	39	0.005	0.76	<0.01	<0.01	<0.5	22.81	20.2	<0.5	2.13	6	<2	13.35	4.75	47.85	1.05	1.77
3201123	Drill Core	2.0	53.2	0.37	120	0.001	0.22	<0.01	0.06	<0.5	1.71	9.7	<0.5	0.70	<5	<2	60.84	6.64	18.55	0.42	0.72
3201124	Drill Core	1.7	27.6	0.14	95	0.001	0.18	<0.01	0.04	<0.5	10.96	4.7	<0.5	1.58	<5	<2	78.63	4.13	8.40	0.25	0.30
3201125	Drill Core	0.9	276.7	0.78	520	0.010	1.27	<0.01	0.01	<0.5	2.44	14.9	0.5	1.47	5	<2	29.59	6.38	38.48	0.85	1.37
3201126	Drill Core	<0.5	61.6	0.36	85	<0.001	0.31	<0.01	0.03	<0.5	2.82	8.8	1.2	4.31	<5	<2	49.48	3.66	29.67	0.37	0.68
3201127	Drill Core	1.0	59.0	0.25	82	0.001	0.36	<0.01	0.03	<0.5	0.45	8.2	<0.5	0.85	<5	<2	68.92	4.58	16.01	0.35	0.48
3201128	Drill Core	1.6	63.7	0.26	174	0.001	0.60	<0.01	0.04	<0.5	3.91	9.2	0.6	2.72	<5	<2	61.20	5.09	19.68	0.38	0.51
3201129	Drill Core	7.9	451.4	0.72	604	0.012	2.24	<0.01	0.02	<0.5	72.33	21.0	0.7	5.47	10	3	15.94	6.36	41.24	1.17	1.28
3201130	Drill Core	0.7	265.5	0.70	55	0.008	1.01	<0.01	<0.01	<0.5	23.83	15.9	0.6	3.10	5	<2	18.18	4.17	46.29	0.81	1.25
3201131	Drill Core	0.5	230.9	0.45	37	0.009	1.04	<0.01	<0.01	<0.5	112.27	10.5	<0.5	8.41	10	3	34.21	4.74	29.12	0.51	0.83
3201132	Drill Core	<0.5	194.2	0.40	40	0.008	0.77	<0.01	<0.01	<0.5	185.96	10.7	1.4	16.87	13	4	22.48	3.33	32.08	0.41	0.77
3201133	Drill Core	0.7	347.1	0.81	35	0.006	1.82	<0.01	<0.01	<0.5	1.86	15.4	<0.5	2.65	8	<2	33.00	6.72	37.99	0.61	1.45
3201134	Drill Core	0.7	331.0	0.66	45	0.003	1.78	<0.01	<0.01	<0.5	6.77	13.7	<0.5	2.95	8	<2	39.81	7.82	31.33	0.49	1.18
3201135	Drill Core	<0.5	180.4	0.13	32	0.006	1.13	<0.01	<0.01	<0.5	89.25	2.8	12.1	>30	8	4	10.05	3.19	50.13	0.14	0.26
3201136	Drill Core	0.5	179.9	0.28	32	0.007	1.20	<0.01	<0.01	<0.5	56.14	8.5	4.7	23.77	7	<2	25.89	4.23	40.91	0.24	0.55
3201137	Drill Core	2.2	226.7	0.84	31	0.006	0.97	<0.01	<0.01	<0.5	30.76	19.4	0.5	3.05	6	<2	27.03	3.88	41.44	0.60	1.49
3201138	Drill Core	1.1	233.5	0.68	36	0.009	1.10	<0.01	<0.01	<0.5	4.97	16.7	5.8	11.11	5	<2	24.31	4.44	44.82	0.47	1.22
3201139	Drill Core	0.6	148.6	0.19	46	0.006	0.79	<0.01	<0.01	<0.5	229.26	4.3	8.9	23.08	12	4	25.66	3.78	28.18	0.36	0.35
3201140	Rock	7.0	4.6	0.74	152	0.164	1.69	0.22	0.27	<0.5	<0.05	4.2	<0.5	<0.05	5	<2	64.71	16.00	5.26	4.84	2.27
3201141	Drill Core	<0.5	203.9	0.70	30	0.007	0.81	<0.01	<0.01	<0.5	26.03	18.0	<0.5	2.96	6	<2	27.65	3.36	41.68	0.63	1.26



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
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
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
3201112 Drill Core	0.02	1.48	1.15	0.39	0.07	0.01	<0.01	0.01	0.07	21.30	100.27	0.02	6.69	1.06	1.39	<0.02	19.42	0.16	2.72
3201113 Drill Core	0.05	1.33	1.28	0.48	0.08	0.06	<0.01	0.01	3.24	19.69	100.17	0.03	5.67	3.04	1.24	<0.02	16.22	0.58	7.37
3201114 Drill Core	0.25	1.17	1.70	0.59	0.11	0.10	<0.01	0.02	3.15	18.59	100.31	0.04	4.73	4.72	1.08	<0.02	13.39	2.04	8.03
3201115 Drill Core	0.12	1.51	1.60	0.78	0.11	0.06	<0.01	<0.01	3.02	23.17	99.48	0.04	6.56	5.53	1.24	<0.02	19.52	2.81	8.14
3201116 Drill Core	0.05	1.41	1.38	0.71	0.10	0.03	<0.01	<0.01	2.15	20.86	100.17	0.03	6.04	4.03	1.38	<0.02	17.09	2.23	5.39
3201117 Drill Core	0.47	1.21	2.12	0.91	0.13	0.20	<0.01	<0.01	2.04	21.99	99.45	0.05	5.93	4.77	1.70	<0.02	15.51	2.70	6.21
3201118 Drill Core	0.05	1.31	0.78	0.27	0.04	0.03	<0.01	0.02	5.04	23.49	100.79	0.03	6.22	9.36	1.26	<0.02	18.15	5.47	11.67
3201119 Drill Core	0.57	1.31	2.27	0.40	0.13	0.25	<0.01	0.02	2.10	24.14	99.57	0.05	6.08	8.93	1.53	<0.02	16.67	8.95	<0.05
3201120 Rock Pulp	3.60	0.30	0.25	0.11	<0.01	0.08	0.04	3.58	4.99	16.29	99.80	<0.01	3.41	7.67	0.82	<0.02	9.46	4.15	10.54
3201121 Drill Core	0.06	1.87	0.84	0.31	0.06	0.02	<0.01	<0.01	3.57	23.72	100.33	0.02	7.53	2.72	1.19	<0.02	23.27	0.59	6.40
3201122 Drill Core	0.04	2.05	0.88	0.34	0.06	0.02	<0.01	<0.01	2.07	25.36	100.17	0.03	8.15	2.04	1.15	<0.02	25.66	0.57	4.39
3201123 Drill Core	0.42	0.76	0.49	0.17	0.03	0.09	<0.01	<0.01	0.18	10.72	100.16	0.04	3.45	0.70	0.94	0.06	8.99	0.42	0.82
3201124 Drill Core	0.31	0.26	0.31	0.14	0.02	0.08	<0.01	<0.01	1.07	5.17	99.39	0.02	1.42	1.53	0.56	0.05	2.96	0.83	2.07
3201125 Drill Core	0.10	1.38	1.15	0.34	0.07	0.08	<0.01	0.01	0.22	19.49	99.67	0.04	6.16	1.46	1.23	<0.02	18.06	0.84	1.85
3201126 Drill Core	0.24	0.71	0.26	0.14	0.02	0.07	<0.01	0.02	0.32	14.03	99.80	0.02	3.68	4.31	1.02	0.05	9.60	3.29	3.06
3201127 Drill Core	0.24	0.55	0.42	0.17	0.02	0.07	<0.01	<0.01	0.05	8.27	100.18	0.02	2.49	0.81	0.76	0.02	6.26	0.39	1.27
3201128 Drill Core	0.30	0.57	0.39	0.22	0.02	0.09	<0.01	<0.01	0.40	10.44	99.47	0.03	2.67	2.61	0.76	<0.02	6.94	1.80	2.42
3201129 Drill Core	0.11	1.28	1.52	0.65	0.10	0.18	<0.01	0.02	6.99	21.35	100.02	0.04	5.81	5.46	1.21	<0.02	16.84	1.07	13.18
3201130 Drill Core	0.05	1.56	0.90	0.29	0.05	0.02	<0.01	0.02	2.30	23.51	100.04	0.03	7.38	3.00	1.24	<0.02	22.49	1.13	5.61
3201131 Drill Core	0.05	0.75	1.04	0.22	0.05	0.02	<0.01	0.03	10.02	16.23	100.41	0.02	3.81	8.11	0.82	<0.02	10.98	2.53	16.72
3201132 Drill Core	0.05	0.59	0.88	0.19	0.05	0.02	0.01	0.07	16.11	19.26	100.43	0.02	3.18	17.04	0.71	<0.02	9.07	7.96	27.23
3201133 Drill Core	0.05	1.07	1.51	0.23	0.08	0.03	<0.01	0.03	0.14	18.08	101.12	0.03	5.44	2.62	1.34	<0.02	15.04	1.81	2.44
3201134 Drill Core	0.08	0.88	1.44	0.19	0.08	0.04	<0.01	0.01	0.59	15.45	99.67	0.04	4.28	2.75	1.10	<0.02	11.64	1.83	2.75
3201135 Drill Core	0.02	0.14	0.65	0.07	0.03	<0.01	0.01	0.12	7.63	25.86	100.32	0.01	0.64	38.60	0.27	<0.02	1.34	34.67	11.78
3201136 Drill Core	0.03	0.33	0.89	0.09	0.04	0.01	<0.01	0.12	4.43	20.86	99.83	0.02	1.79	23.74	0.48	<0.02	4.77	21.09	7.94
3201137 Drill Core	0.04	1.27	0.86	0.17	0.06	0.02	0.02	0.02	2.48	20.91	101.02	0.03	6.56	2.92	1.43	<0.02	18.79	1.24	5.05
3201138 Drill Core	0.04	0.98	0.97	0.15	0.06	0.02	<0.01	0.02	0.31	22.13	100.14	0.03	5.12	11.21	1.37	<0.02	13.77	9.56	4.95
3201139 Drill Core	0.05	0.23	1.01	0.24	0.05	0.02	0.03	0.07	17.93	17.79	100.44	0.02	1.27	23.33	0.43	<0.02	3.07	14.02	27.93
3201140 Rock	1.67	0.13	0.48	0.13	<0.01	0.06	<0.01	<0.01	<0.01	1.05	100.47	0.02	0.07	<0.02	0.04	<0.02	0.11	<0.05	0.13
3201141 Drill Core	0.03	1.20	0.88	0.22	0.05	<0.01	<0.01	0.01	1.95	20.92	100.40	0.02	6.55	2.87	1.16	<0.02	19.74	1.27	4.79



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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	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
3201142	Drill Core	1.83	1.9	30.4	149.6	16232	2.7	329.4	39.7	9392	27.49	322	0.9	0.7	95	51.7	52.6	<0.5	105	0.43	0.072
3201143	Drill Core	1.46	1.2	33.6	100.2	15715	2.3	209.2	29.2	11513	30.38	151	1.0	0.7	105	53.4	29.8	<0.5	105	0.57	0.100
3201144	Drill Core	1.42	4.9	47.2	180.2	4416	2.9	379.9	46.1	7980	24.63	336	6.4	0.6	132	16.2	38.7	<0.5	123	0.40	0.096
3201145	Drill Core	0.80	4.6	71.4	126.9	4937	2.0	238.0	32.8	8674	24.85	203	7.6	1.2	117	15.8	30.6	<0.5	87	0.58	0.121
3201146	Drill Core	1.17	2.6	112.2	474.5	43891	10.4	463.7	54.3	5469	35.33	806	1.8	0.7	78	133.7	133.4	<0.5	64	0.25	0.051
3201147	Drill Core	1.30	4.0	59.3	250.3	21441	5.2	426.2	57.4	8323	30.63	435	3.2	0.8	127	62.4	70.8	<0.5	111	0.43	0.096
3201148	Drill Core	1.74	0.9	88.2	241.3	32019	9.2	357.2	40.6	9733	34.96	428	1.0	0.7	152	84.4	65.8	<0.5	95	0.52	0.113
3201149	Drill Core	1.46	3.5	53.2	124.9	47210	3.4	362.8	59.9	5155	17.78	291	2.4	0.7	155	131.3	40.5	<0.5	102	0.45	0.141
3201150	Drill Core	1.49	4.4	59.5	127.5	10969	2.6	382.3	52.9	9689	28.50	262	16.0	0.9	176	30.4	50.2	<0.5	162	0.56	0.173
3201151	Drill Core	1.32	8.8	87.8	169.1	22747	4.5	253.9	28.2	10135	28.83	256	44.9	0.8	380	58.8	64.9	<0.5	238	0.59	0.317
3201152	Drill Core	0.96	1.3	112.3	100.8	70578	8.5	315.0	33.5	11389	31.96	268	2.7	0.8	114	122.1	44.6	<0.5	110	0.56	0.126
3201153	Drill Core	1.16	1.4	257.0	206.6	128901	11.4	274.2	34.9	8710	26.18	236	1.8	0.8	115	220.3	46.8	<0.5	92	0.51	0.140
3201154	Drill Core	0.92	4.4	258.9	466.1	117922	38.7	236.7	27.7	11248	30.78	235	6.0	0.7	159	319.4	100.5	<0.5	119	0.56	0.135
3201155	Drill Core	1.78	4.3	265.8	1157.2	159052	37.3	125.7	12.1	3536	10.58	143	0.8	<0.5	43	385.0	91.9	<0.5	37	0.18	0.040
3201156	Drill Core	1.38	2.3	15.7	100.2	2451	1.5	66.1	6.7	2881	8.11	57	0.9	<0.5	31	8.9	20.3	<0.5	36	0.11	0.021
3201157	Drill Core	1.79	3.1	17.3	112.9	1464	1.6	94.1	6.8	4593	12.29	84	1.0	<0.5	41	7.3	27.3	<0.5	43	0.16	0.026
3201158	Drill Core	1.71	5.6	60.4	116.5	5682	1.6	99.2	6.2	2981	8.17	101	5.6	0.5	65	27.8	29.3	<0.5	53	0.13	0.054
3201159	Drill Core	1.48	1.6	10.8	52.9	785	0.9	70.3	4.5	3949	9.45	59	0.7	<0.5	30	4.8	16.4	<0.5	29	0.11	0.018
3201160	Rock Pulp	0.04	2.6	244.4	17966.6	29307	34.2	25.5	20.8	1838	5.60	84	1.7	7.1	24	94.9	50.5	<0.5	11	5.30	0.058
3201161	Drill Core	1.78	1.0	61.4	103.7	34200	4.1	73.6	6.9	5510	13.43	67	0.7	<0.5	50	98.2	20.5	<0.5	35	0.21	0.041
3201162	Drill Core	1.82	0.9	37.8	58.5	25060	2.7	52.0	4.7	5012	11.80	38	<0.5	<0.5	25	74.5	15.3	<0.5	25	0.14	0.016
3201163	Drill Core	0.80	0.9	38.7	54.5	5876	3.4	174.8	45.1	8101	24.38	125	1.3	<0.5	147	25.2	19.1	<0.5	112	0.31	0.041
3201164	Drill Core	0.94	2.9	59.0	128.0	15768	1.4	102.2	7.3	3011	8.00	71	15.3	<0.5	170	87.6	24.3	<0.5	91	0.14	0.069
3201165	Drill Core	1.26	4.8	31.9	70.5	3435	0.9	92.1	8.7	4586	11.70	61	14.3	<0.5	119	26.2	18.6	<0.5	117	0.23	0.080
3201166	Drill Core	1.90	5.5	75.7	216.1	33753	6.0	164.4	26.2	3351	14.48	269	2.6	<0.5	67	104.2	43.9	<0.5	75	0.16	0.045
3201167	Drill Core	1.79	2.0	58.3	108.9	10060	3.6	119.5	30.0	7178	20.12	68	2.8	<0.5	170	34.0	21.1	<0.5	117	0.39	0.082
3201168	Drill Core	1.83	1.3	16.6	36.6	2591	0.6	55.9	4.8	4461	11.35	45	2.2	<0.5	21	10.0	14.9	<0.5	33	0.13	0.018
3201169	Drill Core	1.28	1.1	23.0	132.1	6457	1.1	47.6	4.2	5127	13.06	37	1.6	<0.5	26	21.8	11.2	<0.5	32	0.15	0.018
3201170	Drill Core	1.83	2.0	40.4	54.1	15612	1.4	70.3	6.0	3213	9.35	59	1.5	<0.5	30	40.7	18.3	<0.5	34	0.12	0.027
3201171	Drill Core	1.87	1.2	39.5	46.7	24609	1.9	66.0	4.7	4393	12.68	71	1.0	<0.5	19	70.9	17.1	<0.5	32	0.13	0.014



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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	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
3201142	Drill Core	<0.5	201.1	0.73	34	0.006	0.82	<0.01	<0.01	<0.5	21.84	17.5	<0.5	2.36	<5	<2	27.21	3.37	42.45	0.61	1.32
3201143	Drill Core	0.5	276.6	0.76	30	0.008	0.99	<0.01	<0.01	<0.5	20.68	20.2	<0.5	2.09	5	<2	21.12	3.46	46.53	0.80	1.34
3201144	Drill Core	0.8	256.4	0.59	436	0.007	1.52	<0.01	<0.01	<0.5	4.97	17.0	0.6	3.64	6	<2	26.51	4.67	38.05	0.59	1.08
3201145	Drill Core	2.2	223.1	0.66	1076	0.023	1.24	0.02	0.03	<0.5	5.22	16.9	<0.5	2.35	<5	<2	31.61	6.25	36.99	1.09	1.15
3201146	Drill Core	1.1	239.3	0.45	289	0.009	1.04	<0.01	<0.01	<0.5	46.52	10.4	4.7	25.08	6	2	11.28	2.92	51.67	0.37	0.71
3201147	Drill Core	1.4	284.8	0.65	129	0.006	1.47	<0.01	<0.01	<0.5	22.90	18.0	1.5	10.53	7	<2	19.56	4.75	45.25	0.60	1.08
3201148	Drill Core	1.0	291.8	0.68	37	0.009	1.66	0.01	<0.01	<0.5	34.61	14.2	2.4	12.35	8	<2	10.35	4.14	51.74	0.73	1.14
3201149	Drill Core	1.1	319.2	0.50	59	0.007	1.74	<0.01	0.01	<0.5	58.58	10.7	0.6	4.61	10	<2	42.97	6.99	25.98	0.64	0.80
3201150	Drill Core	1.4	363.7	0.64	629	0.010	2.23	<0.01	<0.01	<0.5	13.06	16.9	<0.5	2.90	8	<2	23.34	6.06	42.04	0.80	1.09
3201151	Drill Core	2.0	365.9	0.62	629	0.009	2.85	<0.01	0.02	<0.5	23.95	24.1	<0.5	2.49	11	<2	18.40	7.27	42.78	0.84	1.03
3201152	Drill Core	1.1	312.8	0.71	533	0.010	1.86	<0.01	<0.01	<0.5	82.28	16.0	0.6	5.50	8	<2	12.31	4.58	46.57	0.78	1.17
3201153	Drill Core	1.1	311.5	0.58	145	0.011	1.69	<0.01	<0.01	<0.5	153.77	12.6	1.2	8.73	9	<2	17.34	4.22	37.25	0.69	0.98
3201154	Drill Core	1.4	325.7	0.74	58	0.012	2.36	<0.01	<0.01	<0.5	133.78	18.1	<0.5	6.92	15	<2	8.07	4.82	45.04	0.77	1.24
3201155	Drill Core	0.6	29.5	0.25	68	0.001	0.37	<0.01	0.03	<0.5	173.04	4.9	1.3	9.70	6	4	48.86	3.03	14.80	0.26	0.41
3201156	Drill Core	0.7	16.2	0.22	69	<0.001	0.14	<0.01	0.03	<0.5	7.57	3.9	<0.5	1.26	<5	<2	76.60	3.20	11.48	0.17	0.36
3201157	Drill Core	0.9	14.1	0.30	146	<0.001	0.22	<0.01	0.04	<0.5	4.40	4.9	<0.5	1.80	<5	<2	66.84	3.43	17.55	0.24	0.52
3201158	Drill Core	1.1	25.7	0.19	3071	<0.001	0.52	<0.01	0.04	<0.5	6.66	4.9	0.5	1.34	<5	<2	72.41	4.13	11.54	0.18	0.33
3201159	Drill Core	0.6	9.9	0.24	58	<0.001	0.15	<0.01	0.03	<0.5	2.16	3.2	<0.5	0.61	<5	<2	75.25	2.17	13.43	0.18	0.41
3201160	Rock Pulp	26.7	15.1	2.91	143	0.019	1.07	0.01	0.77	0.7	1.00	3.6	28.3	4.79	<5	<2	43.80	8.69	8.36	7.42	5.37
3201161	Drill Core	<0.5	28.0	0.35	69	0.001	0.34	<0.01	0.02	<0.5	31.72	4.5	0.5	2.71	<5	<2	60.89	2.36	19.23	0.30	0.57
3201162	Drill Core	<0.5	12.8	0.32	40	<0.001	0.18	<0.01	0.02	<0.5	25.22	4.2	<0.5	1.82	<5	<2	66.86	1.80	17.21	0.21	0.54
3201163	Drill Core	<0.5	122.0	0.50	142	0.003	1.64	0.02	0.04	<0.5	4.51	22.5	0.9	4.59	<5	<2	22.94	15.35	36.10	0.44	0.79
3201164	Drill Core	0.7	41.2	0.20	1685	0.001	1.13	<0.01	0.02	<0.5	13.74	6.3	0.5	1.90	<5	<2	73.86	3.98	11.38	0.22	0.32
3201165	Drill Core	0.8	65.8	0.27	2575	0.001	1.06	<0.01	0.02	<0.5	3.27	9.4	<0.5	0.78	<5	<2	51.47	4.99	16.81	0.33	0.44
3201166	Drill Core	0.5	42.5	0.23	176	0.002	0.72	<0.01	0.02	<0.5	28.63	6.4	1.2	8.27	<5	3	55.50	5.40	20.90	0.24	0.38
3201167	Drill Core	0.8	59.0	0.45	105	0.001	0.60	0.01	0.03	<0.5	9.13	19.3	<0.5	3.39	<5	<2	37.78	9.90	29.66	0.57	0.73
3201168	Drill Core	<0.5	13.6	0.26	635	<0.001	0.20	<0.01	0.02	<0.5	2.41	3.6	<0.5	0.71	<5	<2	70.77	1.86	16.53	0.20	0.44
3201169	Drill Core	<0.5	15.3	0.29	1374	<0.001	0.16	<0.01	0.02	1.0	5.01	3.8	<0.5	0.70	<5	<2	65.74	1.78	18.90	0.23	0.46
3201170	Drill Core	0.5	18.5	0.19	1202	0.001	0.22	<0.01	0.03	<0.5	11.83	3.9	<0.5	1.69	<5	<2	73.08	2.43	13.59	0.19	0.34
3201171	Drill Core	<0.5	16.2	0.25	132	<0.001	0.18	<0.01	0.02	<0.5	17.75	4.1	<0.5	2.40	<5	<2	65.78	1.50	18.15	0.19	0.45



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

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Method		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
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
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
3201142	Drill Core	0.02	1.22	0.90	0.18	0.04	0.02	<0.01	0.02	1.66	21.16	100.68	0.03	6.79	2.29	1.11	<0.02	20.81	0.90	4.17
3201143	Drill Core	0.01	1.50	0.93	0.27	0.06	<0.01	<0.01	0.02	1.62	22.95	101.03	0.02	7.49	2.00	1.24	<0.02	22.91	0.67	4.01
3201144	Drill Core	0.02	1.04	0.98	0.27	0.05	4.95	<0.01	0.02	0.46	19.42	98.85	0.03	5.32	4.74	1.25	<0.02	14.89	2.36	7.14
3201145	Drill Core	0.39	1.10	0.85	0.28	0.04	0.14	<0.01	0.02	0.48	18.41	99.96	0.03	5.32	2.45	0.88	<0.02	16.25	1.48	2.93
3201146	Drill Core	<0.01	0.68	0.95	0.13	0.04	0.08	<0.01	0.06	4.42	26.12	100.64	0.02	3.26	25.00	0.47	<0.02	10.22	22.01	8.98
3201147	Drill Core	0.04	1.04	1.24	0.23	0.06	0.16	<0.01	0.03	2.08	22.69	99.41	0.04	5.18	10.29	0.78	<0.02	16.10	7.85	7.33
3201148	Drill Core	0.01	1.20	0.91	0.28	0.05	0.02	<0.01	0.02	3.24	25.24	99.93	0.03	5.71	11.92	0.58	<0.02	18.80	9.07	8.56
3201149	Drill Core	0.10	0.66	1.49	0.37	0.07	0.04	<0.01	0.02	4.85	13.33	99.64	0.04	3.22	4.76	0.57	0.02	9.62	2.06	8.11
3201150	Drill Core	0.01	1.19	1.21	0.43	0.05	0.07	<0.01	<0.01	1.05	21.42	99.06	0.04	6.00	3.05	0.57	<0.02	19.89	1.51	4.61
3201151	Drill Core	0.04	1.24	0.89	0.76	0.06	0.76	<0.01	0.03	2.22	23.01	100.02	0.06	6.19	2.72	1.06	<0.02	18.78	0.80	5.74
3201152	Drill Core	<0.01	1.39	0.92	0.31	0.05	0.10	<0.01	<0.01	7.00	23.50	100.46	0.03	6.55	5.49	0.46	<0.02	22.29	1.45	12.12
3201153	Drill Core	<0.01	1.07	0.96	0.33	0.05	0.02	0.02	0.03	12.64	20.38	99.22	0.02	5.12	8.55	0.61	<0.02	16.51	2.30	18.74
3201154	Drill Core	<0.01	1.38	0.89	0.30	0.05	<0.01	0.02	0.06	11.71	23.24	100.63	0.03	6.23	6.97	0.40	<0.02	21.35	1.55	16.25
3201155	Drill Core	0.21	0.46	0.24	0.10	<0.01	0.04	0.02	0.12	16.23	11.21	100.09	0.02	2.26	9.67	0.52	0.08	6.09	2.76	20.73
3201156	Drill Core	0.26	0.39	0.24	0.05	<0.01	0.05	<0.01	0.01	0.25	6.40	99.53	0.03	1.91	1.33	0.34	0.14	5.21	0.92	1.23
3201157	Drill Core	0.30	0.58	0.18	0.07	<0.01	0.05	<0.01	<0.01	0.14	9.67	99.66	0.03	2.94	1.87	0.52	0.13	8.40	1.39	1.45
3201158	Drill Core	0.32	0.40	0.19	0.12	<0.01	0.91	<0.01	0.02	0.53	7.47	98.81	0.03	2.18	1.58	0.60	0.19	5.13	0.90	2.06
3201159	Drill Core	0.18	0.52	0.12	0.05	<0.01	0.03	<0.01	<0.01	0.08	7.09	99.52	0.02	2.25	0.67	0.38	0.05	6.66	0.41	0.77
3201160	Rock Pulp	4.20	0.25	0.30	0.12	<0.01	0.06	0.01	1.85	3.09	14.40	99.03	0.01	3.26	4.92	0.29	<0.02	10.88	2.48	7.29
3201161	Drill Core	0.12	0.70	0.19	0.09	<0.01	0.02	<0.01	0.01	3.55	10.48	99.43	0.02	2.97	2.88	0.36	<0.02	9.49	0.88	5.99
3201162	Drill Core	0.12	0.66	0.11	0.03	<0.01	0.02	<0.01	<0.01	2.66	9.23	100.15	0.02	2.69	1.95	0.29	<0.02	8.73	0.52	4.30
3201163	Drill Core	0.62	1.03	1.31	0.10	0.03	0.18	<0.01	<0.01	0.57	19.43	99.34	0.05	4.64	4.88	0.61	<0.02	14.75	3.79	3.27
3201164	Drill Core	0.15	0.39	0.13	0.16	<0.01	0.22	<0.01	<0.01	1.53	7.22	100.01	0.03	1.69	2.00	0.35	0.02	4.82	0.95	3.16
3201165	Drill Core	0.11	0.61	0.33	0.18	0.01	8.27	<0.01	0.01	0.33	10.79	95.74	0.04	2.73	2.78	0.43	0.04	8.29	0.34	7.31
3201166	Drill Core	0.17	0.44	0.62	0.12	<0.01	0.04	<0.01	0.03	3.56	11.89	100.23	0.04	2.31	8.30	0.57	0.12	5.95	6.07	6.69
3201167	Drill Core	0.28	0.93	1.19	0.20	0.01	0.08	<0.01	0.01	1.00	16.84	99.65	0.05	4.35	3.62	0.58	0.03	13.71	2.41	3.63
3201168	Drill Core	0.12	0.58	0.08	0.05	<0.01	0.08	<0.01	<0.01	0.25	8.59	99.63	0.02	2.71	0.79	0.37	0.03	8.47	0.36	1.28
3201169	Drill Core	0.12	0.66	0.08	0.04	<0.01	0.16	<0.01	0.02	0.62	9.90	98.90	0.01	3.16	0.79	0.40	0.03	10.04	0.18	1.82
3201170	Drill Core	0.16	0.43	0.15	0.06	<0.01	0.16	<0.01	<0.01	1.53	7.45	99.97	0.01	2.15	1.81	0.39	0.04	6.34	0.80	3.05
3201171	Drill Core	0.11	0.57	0.10	0.03	<0.01	0.03	<0.01	0.01	2.56	9.69	99.80	0.01	2.73	2.53	0.32	0.03	8.73	0.91	4.87





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 17, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000473.1

	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
3201172	Drill Core	1.58	0.9	29.6	28.3	15054	1.1	59.8	4.5	6165	15.25	51	1.1	<0.5	25	44.5	13.5	<0.5	28	0.17	0.016
3201173	Drill Core	0.91	10.1	150.5	222.9	45038	5.3	113.9	17.8	1929	6.59	103	2.0	0.5	69	116.7	29.5	<0.5	50	0.19	0.071
3201174	Drill Core	0.85	1.7	118.1	209.4	70554	8.1	51.5	11.5	1919	8.80	94	0.9	0.6	41	362.6	43.6	<0.5	25	0.13	0.040
3201175	Drill Core	1.10	3.4	77.7	280.6	6714	3.8	51.5	13.5	3827	11.28	81	3.7	0.7	70	29.7	23.7	<0.5	63	0.23	0.082
3201176	Drill Core	1.68	0.8	22.2	150.3	7663	0.9	80.8	32.5	9804	27.92	75	0.9	<0.5	79	25.5	9.7	<0.5	143	0.30	0.012
3201177	Drill Core	1.38	0.8	60.5	187.3	21047	1.8	93.1	51.6	9877	26.98	134	0.7	<0.5	98	75.0	18.8	<0.5	138	0.32	0.018
3201178	Drill Core	1.67	12.1	455.6	7202.7	132929	32.8	170.3	56.6	3397	14.83	281	2.5	<0.5	35	540.3	121.8	<0.5	83	0.17	0.037
3201179	Drill Core	1.60	13.2	52.4	244.4	10298	2.9	101.2	25.4	4460	15.02	133	1.9	<0.5	61	47.4	27.1	<0.5	103	0.19	0.031
3201180	Rock	1.28	0.8	45.9	2.8	49	<0.5	3.9	9.7	461	2.86	<5	0.9	2.3	90	<0.5	<0.5	<0.5	99	1.13	0.058
3201181	Drill Core	1.19	10.0	73.6	231.7	32746	7.9	122.7	28.9	3627	11.88	114	2.7	1.0	66	115.2	38.5	<0.5	113	0.25	0.073
3201182	Drill Core	1.16	9.7	148.3	349.3	46746	9.4	112.7	30.4	4027	13.21	123	2.6	0.6	71	150.2	37.0	<0.5	120	0.29	0.086
3201183	Drill Core	1.76	7.6	92.0	248.4	23638	3.7	187.4	46.1	5747	20.08	213	2.9	0.6	82	78.9	34.3	<0.5	129	0.31	0.097
3201184	Drill Core	2.14	9.2	79.2	136.8	13053	3.5	155.1	34.4	6578	18.89	134	2.3	0.7	106	41.4	36.4	<0.5	108	0.39	0.089
3201185	Drill Core	1.50	13.4	30.4	75.1	6932	1.4	120.2	34.1	5634	16.74	150	6.5	1.1	148	20.8	18.6	<0.5	115	0.39	0.112
3201186	Drill Core	1.95	1.2	28.8	41.1	7277	1.0	108.1	41.4	8172	23.29	91	<0.5	<0.5	115	20.4	13.2	<0.5	150	0.35	0.060
3201187	Drill Core	1.61	8.0	148.0	380.6	41569	9.6	596.5	76.6	4351	35.64	1317	6.4	1.7	90	115.7	110.6	<0.5	77	0.26	0.071
3201188	Drill Core	1.02	0.8	76.0	68.0	72439	3.7	233.3	28.8	11544	32.87	251	0.8	1.7	172	188.8	23.5	<0.5	125	0.81	0.231
3201189	Drill Core	1.06	3.5	50.4	251.0	19466	5.8	287.6	45.8	9794	27.12	233	2.8	0.7	113	46.1	39.3	<0.5	158	0.48	0.107
3201190	Drill Core	1.16	16.0	23.2	110.9	12358	2.8	233.8	37.5	2331	8.50	197	8.9	0.7	122	31.0	39.7	<0.5	64	0.36	0.141





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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 17, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000473.1

	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
3201172	Drill Core	<0.5	15.9	0.37	125	<0.001	0.14	<0.01	0.02	<0.5	11.15	5.2	<0.5	1.07	<5	<2	60.52	1.67	22.38	0.26	0.60
3201173	Drill Core	0.8	40.1	0.13	80	0.002	0.33	<0.01	0.03	<0.5	41.18	5.7	0.7	3.67	<5	4	69.62	5.61	9.44	0.28	0.24
3201174	Drill Core	1.2	11.9	0.20	65	0.001	0.16	<0.01	0.04	<0.5	57.98	3.6	0.9	6.60	7	3	65.20	2.88	12.54	0.19	0.36
3201175	Drill Core	1.0	28.4	0.37	1752	0.001	0.39	<0.01	0.04	<0.5	7.55	7.8	0.6	1.11	<5	<2	66.67	4.38	16.32	0.34	0.61
3201176	Drill Core	0.5	126.9	0.75	38	0.004	1.52	0.01	0.02	<0.5	7.03	26.7	<0.5	0.58	<5	<2	20.00	10.93	41.40	0.44	1.27
3201177	Drill Core	<0.5	116.6	0.78	55	0.006	1.33	0.01	0.03	<0.5	18.90	26.0	<0.5	1.40	5	<2	19.15	11.30	40.80	0.46	1.32
3201178	Drill Core	<0.5	51.1	0.48	40	0.002	0.78	<0.01	0.01	<0.5	118.22	8.6	1.5	10.94	10	13	37.94	5.90	21.74	0.27	0.75
3201179	Drill Core	<0.5	49.9	0.43	50	0.002	0.35	<0.01	0.02	<0.5	12.17	13.1	0.6	2.94	<5	5	54.50	6.02	22.02	0.28	0.72
3201180	Rock	7.1	5.3	0.89	176	0.186	2.09	0.29	0.32	<0.5	<0.05	3.3	<0.5	<0.05	5	<2	60.84	17.03	6.45	6.27	2.91
3201181	Drill Core	0.6	64.1	0.32	148	0.002	0.39	<0.01	0.02	<0.5	35.20	10.6	<0.5	2.81	<5	4	55.17	7.25	17.83	0.37	0.56
3201182	Drill Core	0.6	64.4	0.36	58	0.003	0.35	<0.01	0.02	<0.5	52.29	11.1	0.7	3.42	<5	6	51.11	6.69	20.80	0.43	0.61
3201183	Drill Core	0.7	155.1	0.46	42	0.002	0.95	<0.01	0.01	<0.5	20.57	13.3	0.8	5.88	5	5	37.38	8.35	30.73	0.48	0.76
3201184	Drill Core	0.8	119.7	0.42	55	0.002	0.50	<0.01	0.02	<0.5	12.76	12.4	<0.5	2.06	<5	5	42.03	7.39	29.06	0.58	0.73
3201185	Drill Core	1.5	92.4	0.34	86	0.002	0.70	<0.01	0.03	<0.5	6.10	16.3	<0.5	2.82	<5	4	42.93	11.18	25.68	0.58	0.61
3201186	Drill Core	<0.5	132.1	0.62	30	0.005	2.28	0.01	0.02	<0.5	6.12	25.6	<0.5	0.63	7	<2	26.20	14.01	36.09	0.52	1.07
3201187	Drill Core	1.3	239.0	0.35	32	0.015	1.06	<0.01	0.01	<0.5	37.09	7.2	6.7	>30	8	16	6.27	3.08	54.95	0.38	0.59
3201188	Drill Core	2.5	349.3	0.74	11	0.028	1.65	<0.01	<0.01	<0.5	72.35	13.9	<0.5	6.41	9	<2	6.90	3.27	49.54	1.15	1.25
3201189	Drill Core	2.1	285.6	0.57	46	0.010	1.32	<0.01	<0.01	<0.5	19.42	18.1	<0.5	3.62	6	4	22.29	8.34	41.52	0.71	0.98
3201190	Drill Core	0.9	69.8	0.17	54	0.002	0.43	<0.01	0.02	<0.5	12.30	5.7	<0.5	3.18	<5	7	66.87	7.81	12.70	0.53	0.28



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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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# 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
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
3201172	Drill Core	0.11	0.81	0.10	0.04	<0.01	0.02	<0.01	<0.01	1.48	11.60	99.95	0.01	3.65	1.20	0.39	0.02	11.89	0.25	2.84
3201173	Drill Core	0.26	0.26	0.58	0.18	0.02	0.05	<0.01	0.03	4.69	7.42	99.92	0.04	2.14	3.92	0.74	0.50	3.34	1.62	6.92
3201174	Drill Core	0.27	0.26	0.26	0.09	<0.01	0.03	0.06	0.02	7.32	8.17	99.54	0.02	1.62	6.54	0.39	0.06	4.30	2.74	11.41
3201175	Drill Core	0.33	0.50	0.30	0.20	<0.01	0.23	<0.01	0.02	0.66	9.61	100.40	0.04	2.95	1.20	0.61	0.12	8.17	0.54	1.98
3201176	Drill Core	0.07	1.24	1.15	0.03	0.02	0.03	<0.01	0.01	0.76	21.57	99.22	0.05	6.42	0.67	0.48	<0.02	21.75	<0.05	2.08
3201177	Drill Core	0.15	1.26	1.33	0.04	0.02	0.06	<0.01	0.02	2.08	21.54	100.24	0.05	6.26	1.52	0.68	<0.02	20.44	0.21	3.91
3201178	Drill Core	0.12	0.44	0.89	0.10	0.02	0.03	0.04	0.71	13.80	14.43	100.76	0.04	2.93	11.41	0.67	0.30	7.17	4.66	20.26
3201179	Drill Core	0.19	0.57	0.86	0.08	0.02	0.04	<0.01	0.02	1.04	13.08	99.80	0.05	4.09	3.13	1.15	0.29	9.71	2.08	3.15
3201180	Rock	1.52	0.13	0.54	0.13	<0.01	0.06	<0.01	<0.01	<0.01	0.94	100.18	0.03	0.05	<0.02	0.03	<0.02	0.09	<0.05	0.09
3201181	Drill Core	0.17	0.46	0.99	0.18	0.03	0.06	<0.01	0.03	3.47	11.56	99.02	0.05	3.42	3.13	1.07	0.22	7.80	1.44	5.06
3201182	Drill Core	0.17	0.53	0.96	0.22	0.03	0.07	0.07	0.04	4.91	12.60	100.50	0.05	3.73	3.84	1.11	0.22	8.81	1.32	7.58
3201183	Drill Core	0.11	0.74	1.09	0.23	0.05	0.03	<0.01	0.03	2.36	16.81	99.81	0.05	4.29	6.26	1.10	0.14	11.15	4.35	5.72
3201184	Drill Core	0.20	0.85	0.98	0.23	0.04	0.05	<0.01	<0.01	1.37	16.21	100.12	0.05	4.87	2.34	1.25	0.18	12.61	1.30	3.12
3201185	Drill Core	0.31	0.75	1.41	0.28	0.04	0.07	<0.01	<0.01	0.71	14.55	99.39	0.06	3.91	3.13	1.15	0.11	9.69	2.30	2.48
3201186	Drill Core	0.12	1.06	1.59	0.14	0.04	0.03	0.01	<0.01	0.73	18.06	100.04	0.04	5.04	0.70	1.06	<0.02	14.60	0.15	1.67
3201187	Drill Core	0.05	0.54	0.96	0.19	0.08	0.01	0.01	0.05	4.15	27.71	100.13	0.02	2.60	31.03	0.52	<0.02	7.59	28.35	8.03
3201188	Drill Core	<0.01	1.45	1.12	0.57	0.06	<0.01	<0.01	0.01	7.37	25.04	99.61	0.02	6.95	6.71	0.87	<0.02	22.28	2.18	13.59
3201189	Drill Core	0.08	1.25	1.32	0.28	0.07	0.05	<0.01	0.03	1.92	20.85	100.21	0.05	5.80	3.89	1.15	0.02	16.96	2.30	4.75
3201190	Drill Core	0.22	0.31	0.94	0.36	0.04	0.06	<0.01	0.01	1.27	7.67	99.42	0.04	1.68	3.50	0.71	0.08	3.26	2.64	2.59



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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	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
3201128	Drill Core	1.58	2.5	30.3	84.2	4076	2.0	133.9	15.1	4345	13.15	211	4.2	0.8	145	12.1	29.1	<0.5	68	0.27	0.092
3201163	Drill Core	0.80	0.9	38.7	54.5	5876	3.4	174.8	45.1	8101	24.38	125	1.3	<0.5	147	25.2	19.1	<0.5	112	0.31	0.041
3201186	Drill Core	1.95	1.2	28.8	41.1	7277	1.0	108.1	41.4	8172	23.29	91	<0.5	<0.5	115	20.4	13.2	<0.5	150	0.35	0.060
Pulp Duplicates																					
REP 3201115	QC																				
3201121	Drill Core	1.33	0.9	76.2	42.8	34941	3.2	150.9	23.7	14239	28.65	70	<0.5	0.6	167	68.3	22.0	<0.5	103	0.69	0.134
REP 3201121	QC																				
3201134	Drill Core	1.14	1.2	23.2	159.3	5856	2.7	208.1	38.1	6894	20.58	89	0.7	0.6	113	20.9	41.2	<0.5	90	0.34	0.063
REP 3201134	QC		1.0	24.3	159.9	5809	2.7	200.1	36.4	6861	20.47	86	0.7	0.5	108	20.6	38.8	<0.5	90	0.34	0.063
3201137	Drill Core	1.11	1.7	45.0	257.6	24508	3.9	187.7	30.0	9815	27.37	101	1.3	<0.5	98	89.2	39.5	<0.5	92	0.41	0.064
REP 3201137	QC																				
3201138	Drill Core	1.15	2.7	53.6	228.6	2991	4.3	340.4	37.7	7692	29.45	407	1.2	<0.5	96	10.2	63.6	<0.5	86	0.33	0.056
REP 3201138	QC																				
3201140	Rock	1.28	1.0	36.1	2.0	77	<0.5	3.3	7.3	491	2.60	<5	0.7	2.2	79	<0.5	<0.5	<0.5	75	0.99	0.050
REP 3201140	QC																				
REP 3201149	QC																				
3201154	Drill Core	0.92	4.4	258.9	466.1	117922	38.7	236.7	27.7	11248	30.78	235	6.0	0.7	159	319.4	100.5	<0.5	119	0.56	0.135
REP 3201154	QC																				
3201168	Drill Core	1.83	1.3	16.6	36.6	2591	0.6	55.9	4.8	4461	11.35	45	2.2	<0.5	21	10.0	14.9	<0.5	33	0.13	0.018
REP 3201168	QC		1.3	16.4	36.5	2584	0.6	54.4	4.3	4454	11.32	44	2.3	<0.5	23	10.0	14.5	<0.5	33	0.13	0.019
3201171	Drill Core	1.87	1.2	39.5	46.7	24609	1.9	66.0	4.7	4393	12.68	71	1.0	<0.5	19	70.9	17.1	<0.5	32	0.13	0.014
REP 3201171	QC																				
3201172	Drill Core	1.58	0.9	29.6	28.3	15054	1.1	59.8	4.5	6165	15.25	51	1.1	<0.5	25	44.5	13.5	<0.5	28	0.17	0.016
REP 3201172	QC																				
3201173	Drill Core	0.91	10.1	150.5	222.9	45038	5.3	113.9	17.8	1929	6.59	103	2.0	0.5	69	116.7	29.5	<0.5	50	0.19	0.071
REP 3201173	QC																				
3201175	Drill Core	1.10	3.4	77.7	280.6	6714	3.8	51.5	13.5	3827	11.28	81	3.7	0.7	70	29.7	23.7	<0.5	63	0.23	0.082
REP 3201175	QC																				
3201181	Drill Core	1.19	10.0	73.6	231.7	32746	7.9	122.7	28.9	3627	11.88	114	2.7	1.0	66	115.2	38.5	<0.5	113	0.25	0.073



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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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Suite 1020, 800 Pender Street

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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
3201128	Drill Core	1.6	63.7	0.26	174	0.001	0.60	<0.01	0.04	<0.5	3.91	9.2	0.6	2.72	<5	<2	61.20	5.09	19.68	0.38	0.51
3201163	Drill Core	<0.5	122.0	0.50	142	0.003	1.64	0.02	0.04	<0.5	4.51	22.5	0.9	4.59	<5	<2	22.94	15.35	36.10	0.44	0.79
3201186	Drill Core	<0.5	132.1	0.62	30	0.005	2.28	0.01	0.02	<0.5	6.12	25.6	<0.5	0.63	7	<2	26.20	14.01	36.09	0.52	1.07
Pulp Duplicates																					
REP 3201115	QC																				
3201121	Drill Core	<0.5	245.4	0.94	43	0.005	0.67	<0.01	<0.01	<0.5	38.15	18.7	<0.5	2.85	6	<2	17.53	4.80	43.97	0.98	1.65
REP 3201121	QC																17.69	4.85	43.94	0.99	1.67
3201134	Drill Core	0.7	331.0	0.66	45	0.003	1.78	<0.01	<0.01	<0.5	6.77	13.7	<0.5	2.95	8	<2	39.81	7.82	31.33	0.49	1.18
REP 3201134	QC	0.9	318.8	0.67	46	0.005	1.76	<0.01	0.01	<0.5	6.69	14.9	<0.5	2.93	9	<2					
3201137	Drill Core	2.2	226.7	0.84	31	0.006	0.97	<0.01	<0.01	<0.5	30.76	19.4	0.5	3.05	6	<2	27.03	3.88	41.44	0.60	1.49
REP 3201137	QC																				
3201138	Drill Core	1.1	233.5	0.68	36	0.009	1.10	<0.01	<0.01	<0.5	4.97	16.7	5.8	11.11	5	<2	24.31	4.44	44.82	0.47	1.22
REP 3201138	QC																24.45	4.48	45.14	0.48	1.26
3201140	Rock	7.0	4.6	0.74	152	0.164	1.69	0.22	0.27	<0.5	<0.05	4.2	<0.5	<0.05	5	<2	64.71	16.00	5.26	4.84	2.27
REP 3201140	QC																				
REP 3201149	QC																				
3201154	Drill Core	1.4	325.7	0.74	58	0.012	2.36	<0.01	<0.01	<0.5	133.78	18.1	<0.5	6.92	15	<2	8.07	4.82	45.04	0.77	1.24
REP 3201154	QC																7.99	4.83	44.85	0.77	1.21
3201168	Drill Core	<0.5	13.6	0.26	635	<0.001	0.20	<0.01	0.02	<0.5	2.41	3.6	<0.5	0.71	<5	<2	70.77	1.86	16.53	0.20	0.44
REP 3201168	QC	<0.5	14.2	0.26	640	<0.001	0.20	<0.01	0.02	<0.5	2.26	3.6	<0.5	0.72	<5	<2					
3201171	Drill Core	<0.5	16.2	0.25	132	<0.001	0.18	<0.01	0.02	<0.5	17.75	4.1	<0.5	2.40	<5	<2	65.78	1.50	18.15	0.19	0.45
REP 3201171	QC																65.90	1.51	18.25	0.19	0.42
3201172	Drill Core	<0.5	15.9	0.37	125	<0.001	0.14	<0.01	0.02	<0.5	11.15	5.2	<0.5	1.07	<5	<2	60.52	1.67	22.38	0.26	0.60
REP 3201172	QC																				
3201173	Drill Core	0.8	40.1	0.13	80	0.002	0.33	<0.01	0.03	<0.5	41.18	5.7	0.7	3.67	<5	4	69.62	5.61	9.44	0.28	0.24
REP 3201173	QC																				
3201175	Drill Core	1.0	28.4	0.37	1752	0.001	0.39	<0.01	0.04	<0.5	7.55	7.8	0.6	1.11	<5	<2	66.67	4.38	16.32	0.34	0.61
REP 3201175	QC																				
3201181	Drill Core	0.6	64.1	0.32	148	0.002	0.39	<0.01	0.02	<0.5	35.20	10.6	<0.5	2.81	<5	4	55.17	7.25	17.83	0.37	0.56



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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	
		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	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		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
3201128	Drill Core	0.30	0.57	0.39	0.22	0.02	0.09	<0.01	<0.01	0.40	10.44	99.47	0.03	2.67	2.61	0.76	<0.02	6.94	1.80	2.42	
3201163	Drill Core	0.62	1.03	1.31	0.10	0.03	0.18	<0.01	<0.01	0.57	19.43	99.34	0.05	4.64	4.88	0.61	<0.02	14.75	3.79	3.27	
3201186	Drill Core	0.12	1.06	1.59	0.14	0.04	0.03	0.01	<0.01	0.73	18.06	100.04	0.04	5.04	0.70	1.06	<0.02	14.60	0.15	1.67	
Pulp Duplicates																					
REP 3201115	QC																				7.97
3201121	Drill Core	0.06	1.87	0.84	0.31	0.06	0.02	<0.01	<0.01	3.57	23.72	100.33	0.02	7.53	2.72	1.19	<0.02	23.27	0.59	6.40	
REP 3201121	QC	0.06	1.86	0.86	0.31	0.07	0.01	<0.01	<0.01	3.58	23.72	100.57	0.03								
3201134	Drill Core	0.08	0.88	1.44	0.19	0.08	0.04	<0.01	0.01	0.59	15.45	99.67	0.04	4.28	2.75	1.10	<0.02	11.64	1.83	2.75	
REP 3201134																					
3201137	Drill Core	0.04	1.27	0.86	0.17	0.06	0.02	0.02	0.02	2.48	20.91	101.02	0.03	6.56	2.92	1.43	<0.02	18.79	1.24	5.05	
REP 3201137	QC														6.57	3.04					
3201138	Drill Core	0.04	0.98	0.97	0.15	0.06	0.02	<0.01	0.02	0.31	22.13	100.14	0.03	5.12	11.21	1.37	<0.02	13.77	9.56	4.95	
REP 3201138	QC	0.04	1.00	0.97	0.15	0.05	0.03	<0.01	0.03	0.31	22.13	100.71	0.03								<0.02
3201140	Rock	1.67	0.13	0.48	0.13	<0.01	0.06	<0.01	<0.01	<0.01	1.05	100.47	0.02	0.07	<0.02	0.04	<0.02	0.11	<0.05	0.13	
REP 3201140																					
REP 3201149	QC																				8.05
3201154	Drill Core	<0.01	1.38	0.89	0.30	0.05	<0.01	0.02	0.06	11.71	23.24	100.63	0.03	6.23	6.97	0.40	<0.02	21.35	1.55	16.25	
REP 3201154	QC	<0.01	1.39	0.91	0.30	0.05	<0.01	0.02	0.06	11.64	23.24	100.24	0.03								
3201168	Drill Core	0.12	0.58	0.08	0.05	<0.01	0.08	<0.01	<0.01	0.25	8.59	99.63	0.02	2.71	0.79	0.37	0.03	8.47	0.36	1.28	
REP 3201168																					
3201171	Drill Core	0.11	0.57	0.10	0.03	<0.01	0.03	<0.01	0.01	2.56	9.69	99.80	0.01	2.73	2.53	0.32	0.03	8.73	0.91	4.87	
REP 3201171	QC	0.12	0.57	0.10	0.03	<0.01	0.03	<0.01	<0.01	2.60	9.69	100.06	0.02								
3201172	Drill Core	0.11	0.81	0.10	0.04	<0.01	0.02	<0.01	<0.01	1.48	11.60	99.95	0.01	3.65	1.20	0.39	0.02	11.89	0.25	2.84	
REP 3201172															3.64	1.18					
3201173	Drill Core	0.26	0.26	0.58	0.18	0.02	0.05	<0.01	0.03	4.69	7.42	99.92	0.04	2.14	3.92	0.74	0.50	3.34	1.62	6.92	
REP 3201173																		0.43			
3201175	Drill Core	0.33	0.50	0.30	0.20	<0.01	0.23	<0.01	0.02	0.66	9.61	100.40	0.04	2.95	1.20	0.61	0.12	8.17	0.54	1.98	
REP 3201175																					8.13
3201181	Drill Core	0.17	0.46	0.99	0.18	0.03	0.06	<0.01	0.03	3.47	11.56	99.02	0.05	3.42	3.13	1.07	0.22	7.80	1.44	5.06	



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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		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
REP 3201181	QC																				
3201187	Drill Core	1.61	8.0	148.0	380.6	41569	9.6	596.5	76.6	4351	35.64	1317	6.4	1.7	90	115.7	110.6	<0.5	77	0.26	0.071
REP 3201187	QC		8.6	147.5	385.2	41371	9.4	596.5	77.6	4389	36.44	1320	6.7	1.0	86	114.7	110.9	<0.5	77	0.26	0.074
3201188	Drill Core	1.02	0.8	76.0	68.0	72439	3.7	233.3	28.8	11544	32.87	251	0.8	1.7	172	188.8	23.5	<0.5	125	0.81	0.231
REP 3201188	QC																				
3201189	Drill Core	1.06	3.5	50.4	251.0	19466	5.8	287.6	45.8	9794	27.12	233	2.8	0.7	113	46.1	39.3	<0.5	158	0.48	0.107
REP 3201189	QC																				
Core Reject Duplicates																					
3201115	Drill Core	1.53	0.9	61.0	105.8	29684	5.9	589.4	95.4	11766	30.23	477	<0.5	1.0	434	84.1	81.1	<0.5	134	1.02	0.317
DUP 3201115	QC		0.8	61.1	107.0	29109	5.8	589.2	95.1	11773	30.17	476	<0.5	0.9	449	84.4	82.1	<0.5	134	1.02	0.320
3201149	Drill Core	1.46	3.5	53.2	124.9	47210	3.4	362.8	59.9	5155	17.78	291	2.4	0.7	155	131.3	40.5	<0.5	102	0.45	0.141
DUP 3201149	QC		3.5	56.0	129.8	45552	3.3	377.3	61.6	5584	19.04	303	2.7	0.9	165	123.8	41.8	<0.5	107	0.46	0.145
3201183	Drill Core	1.76	7.6	92.0	248.4	23638	3.7	187.4	46.1	5747	20.08	213	2.9	0.6	82	78.9	34.3	<0.5	129	0.31	0.097
DUP 3201183	QC		7.8	93.0	251.5	22430	4.0	187.8	46.4	5675	19.93	219	3.0	0.7	79	76.5	34.8	<0.5	132	0.31	0.085
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				



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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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## 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
REP 3201181	QC																				
3201187	Drill Core	1.3	239.0	0.35	32	0.015	1.06	<0.01	0.01	<0.5	37.09	7.2	6.7	>30	8	16	6.27	3.08	54.95	0.38	0.59
REP 3201187	QC	1.4	225.2	0.35	32	0.011	1.05	<0.01	<0.01	<0.5	36.88	7.3	6.8	>30	7	15					
3201188	Drill Core	2.5	349.3	0.74	11	0.028	1.65	<0.01	<0.01	<0.5	72.35	13.9	<0.5	6.41	9	<2	6.90	3.27	49.54	1.15	1.25
REP 3201188	QC																6.93	3.35	50.26	1.18	1.28
3201189	Drill Core	2.1	285.6	0.57	46	0.010	1.32	<0.01	<0.01	<0.5	19.42	18.1	<0.5	3.62	6	4	22.29	8.34	41.52	0.71	0.98
REP 3201189	QC																				
Core Reject Duplicates																					
3201115	Drill Core	1.7	533.0	0.86	112	0.016	1.94	0.01	0.02	<0.5	33.38	13.8	1.7	5.54	8	<2	12.67	6.93	45.64	1.46	1.54
DUP 3201115	QC	1.3	535.2	0.86	115	0.011	1.93	0.01	0.02	<0.5	34.33	14.2	1.8	5.49	9	<2	12.67	6.93	45.44	1.45	1.52
3201149	Drill Core	1.1	319.2	0.50	59	0.007	1.74	<0.01	0.01	<0.5	58.58	10.7	0.6	4.61	10	<2	42.97	6.99	25.98	0.64	0.80
DUP 3201149	QC	1.1	352.4	0.49	63	0.012	1.86	<0.01	0.01	<0.5	58.16	12.0	0.6	4.43	11	<2	41.66	7.12	27.47	0.65	0.85
3201183	Drill Core	0.7	155.1	0.46	42	0.002	0.95	<0.01	0.01	<0.5	20.57	13.3	0.8	5.88	5	5	37.38	8.35	30.73	0.48	0.76
DUP 3201183	QC	0.6	158.1	0.43	45	0.003	0.97	<0.01	0.01	<0.5	19.90	14.4	0.7	5.87	<5	4	37.55	8.37	30.61	0.46	0.75
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
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PHONE (604) 253-3158

## QUALITY CONTROL REPORT

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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %
		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
REP 3201181	QC																			5.29
3201187	Drill Core	0.05	0.54	0.96	0.19	0.08	0.01	0.01	0.05	4.15	27.71	100.13	0.02	2.60	31.03	0.52	<0.02	7.59	28.35	8.03
REP 3201187	QC																			
3201188	Drill Core	<0.01	1.45	1.12	0.57	0.06	<0.01	<0.01	0.01	7.37	25.04	99.61	0.02	6.95	6.71	0.87	<0.02	22.28	2.18	13.59
REP 3201188	QC	<0.01	1.48	1.14	0.57	0.06	0.02	<0.01	0.02	7.49	25.04	100.72	0.03	6.97	6.72					
3201189	Drill Core	0.08	1.25	1.32	0.28	0.07	0.05	<0.01	0.03	1.92	20.85	100.21	0.05	5.80	3.89	1.15	0.02	16.96	2.30	4.75
REP 3201189	QC																0.03	17.41		
Core Reject Duplicates																				
3201115	Drill Core	0.12	1.51	1.60	0.78	0.11	0.06	<0.01	<0.01	3.02	23.17	99.48	0.04	6.56	5.53	1.24	<0.02	19.52	2.81	8.14
DUP 3201115	QC	0.12	1.50	1.59	0.78	0.12	0.06	<0.01	0.02	2.97	23.22	99.23	0.04	6.61	5.47	1.45	<0.02	18.94	2.75	8.16
3201149	Drill Core	0.10	0.66	1.49	0.37	0.07	0.04	<0.01	0.02	4.85	13.33	99.64	0.04	3.22	4.76	0.57	0.02	9.62	2.06	8.11
DUP 3201149	QC	0.10	0.72	1.49	0.36	0.07	0.05	<0.01	0.01	4.61	13.85	100.27	0.04	3.43	4.70	0.50	0.02	10.66	2.04	7.97
3201183	Drill Core	0.11	0.74	1.09	0.23	0.05	0.03	<0.01	0.03	2.36	16.81	99.81	0.05	4.29	6.26	1.10	0.14	11.15	4.35	5.72
DUP 3201183	QC	0.11	0.73	1.11	0.21	0.05	0.03	<0.01	0.03	2.29	16.78	99.67	0.05	4.22	6.33	1.14	0.12	10.82	4.51	5.46
Reference Materials																				
STD COO1	Standard																	2.40		
STD COO1	Standard																	2.28		
STD COO1	Standard																	2.17		
STD COO1	Standard																	2.22		
STD COO1	Standard																	2.41		
STD COO1	Standard																	2.24		
STD GBM309-15	Standard													0.21	27.61					
STD GBM309-15	Standard													0.19	28.52					
STD GGC-10	Standard																	4.81		
STD GGC-10	Standard																	4.80		
STD GGC-10	Standard																	4.73		
STD GGC-10	Standard																	5.00		
STD GGC-10	Standard																	4.89		
STD GGC-10	Standard																	4.77		



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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## QUALITY CONTROL REPORT

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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 GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS135	Standard		8.1	307.1	17074.2	27194	54.9	37.1	31.6	3988	9.08	912	9.1	10.6	27	67.7	39.0	5.0	32	1.82
STD OREAS605	Standard		4.5	48082.4	835.2	2113	956.7	1502.8	92.6	83	3.55	1653	0.8	2.5	49	13.4	287.2	19.0	<10	0.18
STD OREAS605	Standard		4.6	48350.1	889.5	2155	>1000	1581.5	95.5	89	3.58	1678	0.9	2.5	45	13.2	276.6	18.3	<10	0.18
STD OREAS605	Standard		4.9	49535.2	891.1	2244	>1000	1594.7	100.5	98	3.72	1715	1.0	2.4	52	14.1	299.1	19.3	<10	0.18
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.1	10540.1	209.5	715	4.4	32.1	30.0	1070	7.98	13	1.5	11.7	13	0.8	1.1	68.8	35	0.30
STD OREAS927-AR	Standard		0.9	10896.2	204.2	691	3.9	30.4	29.7	981	7.82	12	1.5	12.0	13	0.9	1.2	62.7	33	0.29
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD RTS-3A Expected																				
STD GBM309-15 Expected																				
STD GS311-1 Expected																				



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:**

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Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

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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 GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard	34.53 6.91 11.55 5.29 3.85																			
STD OREAS133B(D)	Standard	35.12 6.96 11.62 5.32 3.85																			
STD OREAS133B(D)	Standard	34.62 6.88 11.56 5.31 3.86																			
STD OREAS135	Standard	41.2	22.6	0.85	410	0.029	1.18	0.02	0.53	2.8	1.33	3.4	6.8	7.30	<5	<2					
STD OREAS605	Standard	7.3	27.9	0.03	225	0.012	0.75	0.03	0.16	6.9	1.78	1.5	16.2	7.66	7	80					
STD OREAS605	Standard	7.2	27.1	0.03	222	0.010	0.75	0.03	0.13	6.5	1.80	1.1	15.3	7.67	7	69					
STD OREAS605	Standard	7.7	29.8	0.03	184	0.011	0.81	0.03	0.14	6.9	2.15	1.3	15.9	7.93	7	81					
STD OREAS72B	Standard	51.13 8.97 10.01 4.01 16.06																			
STD OREAS72B	Standard	51.12 8.88 9.96 3.99 15.99																			
STD OREAS72B	Standard	51.16 8.86 9.96 3.97 16.10																			
STD OREAS927-AR	Standard	28.2	41.9	1.86	50	0.095	3.20	<0.01	0.30	5.2	0.07	5.2	<0.5	1.76	9	18					
STD OREAS927-AR	Standard	25.4	41.0	1.91	41	0.082	3.31	<0.01	0.24	4.5	0.09	4.1	<0.5	1.65	9	14					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard	49.92 20.68 6.22 8.02 0.54																			
STD SY-4(D)	Standard	49.93 20.64 6.21 7.96 0.53																			
STD SY-4(D)	Standard	49.93 20.72 6.22 7.99 0.53																			
STD RTS-3A Expected																					
STD GBM309-15 Expected																					
STD GS311-1 Expected																					



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

## QUALITY CONTROL REPORT

WHI19000473.1

		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
STD GS311-1	Standard													0.97	2.35					
STD GS311-1	Standard													0.98	2.43					
STD GS311-1	Standard													1.01	2.18					
STD GS910-4	Standard													2.64	8.26					
STD GS910-4	Standard													2.63	8.53					
STD GS910-4	Standard													2.79	8.03					
STD OREAS133B(D)	Standard	3.46	0.15	0.22	0.13	<0.01	0.06	0.06	5.08	11.39	13.03	99.14	<0.01							
STD OREAS133B(D)	Standard	3.52	0.16	0.22	0.13	<0.01	0.08	0.06	5.09	11.41	13.03	100.00	<0.01							
STD OREAS133B(D)	Standard	3.45	0.16	0.22	0.13	<0.01	0.07	0.06	5.08	11.36	13.03	99.17	0.01							
STD OREAS135	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.32	0.14	0.35	0.06	0.15	0.03	0.02	<0.01	0.01	5.12	98.70	0.01							
STD OREAS72B	Standard	1.33	0.15	0.34	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.46	0.02							
STD OREAS72B	Standard	1.33	0.15	0.37	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.58	0.01							
STD OREAS927-AR	Standard																			
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard	1.67	0.11	0.30	0.14	<0.01	0.04	<0.01	0.01	0.01	4.56	99.30	<0.01							
STD SY-4(D)	Standard	1.68	0.11	0.29	0.14	<0.01	0.04	<0.01	0.01	0.01	4.56	99.22	<0.01							
STD SY-4(D)	Standard	1.67	0.11	0.29	0.15	<0.01	0.04	<0.01	0.01	0.01	4.56	99.35	<0.01							
STD RTS-3A Expected																				
STD GBM309-15 Expected														0.22	28.84					
STD GS311-1 Expected														1.02	2.35					



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Suite 1020, 800 Pender Street

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## QUALITY CONTROL REPORT

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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 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 SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD GGC-10 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 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																				
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank		<0.5	1.4	<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
BLK	Blank		<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
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank		<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
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		0.7	4.5	1.0	32	<0.5	2.4	4.6	627	2.00	<5	<0.5	1.8	29	<0.5	<0.5	<0.5	29	0.73



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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:**

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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 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 SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD GGC-10 Expected																					
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 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																					
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
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					
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																				
SI 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					
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.3	6.2	0.60	64	0.101	1.04	0.10	0.11	<0.5	<0.05	4.2	<0.5	<0.05	<5	<2	70.33	14.28	3.49	2.32	1.19



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		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	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		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	
STD GS910-4 Expected		2.65 8.27																			
STD OREAS927-AR Expected																					
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 GGC-10 Expected																		4.79			
STD OREAS605 Expected																					
STD OREAS135 Expected																					
STD COO1 Expected																				2.37	
SI BLK	Blank	<0.01	0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.90	<0.01								
BLK	Blank																			<0.05	
BLK	Blank																			<0.05	
BLK	Blank																			<0.05	
BLK	Blank														<0.02	<0.02					
BLK	Blank														<0.02	<0.02					
BLK	Blank														<0.02	<0.02					
BLK	Blank																		<0.08		
BLK	Blank																				
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	98.94	<0.01								
SI BLK	Blank	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.43	<0.01								
BLK	Blank																	<0.02			
BLK	Blank																	<0.02			
BLK	Blank																	<0.02			
BLK	Blank																				
BLK	Blank																		<0.08		
BLK	Blank																		<0.08		
Prep Wash																					
ROCK-WHI	Prep Blank	1.81	0.12	0.36	0.08	<0.01	0.08	<0.01	<0.01	<0.01	1.22	100.09	<0.01	0.14	<0.02	0.09	<0.02	0.24	<0.05	0.13	





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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
ROCK-WHI	Prep Blank		0.8	5.6	1.7	30	<0.5	1.3	3.8	559	1.90	<5	<0.5	2.1	25	<0.5	<0.5	<0.5	26	0.68
																				0.037



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**Fireweed Zinc Ltd.**

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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
ROCK-WHI	Prep Blank	6.7	2.9	0.48	64	0.099	0.98	0.10	0.15	<0.5	<0.05	3.7	<0.5	<0.05	<5	<2	70.12	13.95	3.36	2.25	1.04



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
ROCK-WHI	Prep Blank	1.85	0.11	0.36	0.09	<0.01	0.08	<0.01	<0.01	<0.01	1.07	98.95	<0.01	0.12	<0.02	0.09	<0.02	0.14	<0.05	0.14