ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MINING ANALYST CONSULTING LTD.**
168 CHARLTON LN
LONDON SE78AA
UNITED KINGDOM

Finalized Date: 11-DEC-2018
Account: MACLOPMT

CERTIFICATE TB18299766

Project: Big Bear Project

This report is for 23 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 23-NOV-2018.

The following have access to data associated with this certificate:

NICK OREILLY		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
Nop001		1.86	0.03	2.65	0.9	<0.02	<10	70	0.07	0.02	2.04	0.07	10.05	38.5	76	0.83
Nop002		1.10	0.04	0.59	1.4	<0.02	<10	40	0.09	0.08	1.28	0.69	37.8	4.2	14	0.44
BB001		1.04	0.02	1.90	0.2	<0.02	<10	20	0.11	0.02	1.35	0.03	4.65	17.9	324	0.27
BB002		1.19	0.01	0.93	0.2	<0.02	<10	10	0.16	0.01	1.13	0.02	1.27	11.8	373	0.06
BB003		0.98	0.09	2.08	0.3	<0.02	<10	30	0.15	0.02	2.45	0.12	19.90	17.5	53	0.44
BB004		0.73	0.02	1.05	0.3	<0.02	<10	40	<0.05	0.02	0.66	0.03	2.44	12.1	5	0.96
SS001		0.96	0.16	1.56	4.0	1.15	<10	20	0.09	0.42	12.20	1.03	8.01	20.0	51	0.06
SS002		1.04	0.08	3.04	0.6	0.02	<10	40	0.21	0.02	3.62	0.20	17.15	38.0	16	0.66
SS003		1.31	0.07	2.34	0.8	<0.02	<10	50	0.27	0.12	2.98	0.06	92.9	18.7	200	0.15
SP001		0.73	9.20	0.11	0.8	>25.0	<10	20	<0.05	0.79	0.07	0.03	0.74	2.7	21	0.05
SP002		1.18	0.21	0.89	3.1	2.06	20	50	0.50	13.65	0.14	0.13	6.70	28.0	71	0.20
SP003		1.43	6.61	0.09	0.7	>25.0	<10	10	<0.05	0.38	0.01	0.03	0.48	1.5	13	<0.05
PL001		0.89	0.08	1.80	0.5	0.47	<10	110	0.19	0.02	3.21	0.22	6.43	12.7	42	0.85
PL002		0.57	0.05	1.54	0.3	0.03	<10	10	0.07	0.04	15.20	0.23	7.15	15.3	43	0.09
PL003		1.33	0.21	0.37	2.2	1.30	<10	60	0.26	0.08	0.78	0.10	2.93	5.3	14	<0.05
T001		0.67	0.05	1.59	0.6	0.02	<10	290	0.92	0.23	2.44	0.08	171.0	16.8	19	0.67
T002		0.42	0.03	2.68	1.4	<0.02	<10	10	0.09	0.02	1.06	0.06	10.15	31.2	108	0.33
T003		0.72	1.83	2.66	2.0	0.32	<10	20	0.12	0.15	1.92	0.81	5.85	35.9	192	0.31
T004		0.88	0.24	0.55	1.9	0.74	<10	70	0.08	0.22	0.35	0.06	3.35	8.0	12	0.07
T005		0.80	0.06	1.59	2.8	<0.02	<10	300	0.62	0.51	2.41	0.17	183.0	14.6	14	1.18
T006		0.63	0.24	2.12	9.5	0.90	<10	50	0.16	1.24	3.43	0.40	8.50	31.2	38	0.27
T007		0.62	0.30	2.40	12.9	0.24	<10	40	0.13	0.97	0.27	0.09	9.94	51.7	49	0.11
T008		1.00	2.41	3.66	7.0	8.62	<10	40	0.28	1.37	3.81	0.13	16.25	50.6	13	0.33

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Finalized Date: 11-DEC-2018
Account: MACLOPMT

Project: Big Bear Project

CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
Nop001		39.1	6.04	11.75	0.09	0.05	<0.01	0.019	0.20	3.5	15.6	1.03	1140	0.61	0.10	0.44
Nop002		29.2	1.38	3.91	0.06	0.69	0.01	0.084	0.17	15.4	2.8	0.27	359	0.52	0.07	0.98
BB001		34.7	1.96	7.54	0.09	0.06	<0.01	0.009	0.03	1.9	19.2	1.68	279	0.20	0.05	0.06
BB002		24.6	1.29	2.73	0.08	0.03	<0.01	<0.005	0.01	0.6	6.4	0.69	325	0.60	0.02	0.05
BB003		53.1	3.88	8.96	0.09	0.10	<0.01	0.018	0.04	8.1	27.6	1.08	1050	0.34	0.07	0.17
BB004		52.2	1.91	3.87	0.05	0.05	<0.01	0.008	0.12	1.1	13.2	0.73	197	0.24	0.12	0.12
SS001		157.5	5.23	4.69	0.05	0.04	<0.01	0.040	0.03	3.9	5.6	1.71	2730	0.24	0.02	<0.05
SS002		75.1	6.35	13.00	0.09	0.06	<0.01	0.057	0.32	6.4	15.9	2.02	1310	0.41	0.03	0.11
SS003		91.6	3.85	13.00	0.21	0.22	<0.01	0.032	0.02	41.4	16.9	2.63	646	3.13	0.07	<0.05
SP001		20.5	0.52	0.36	<0.05	0.02	0.04	<0.005	0.03	0.3	0.7	0.05	110	1.32	0.01	<0.05
SP002		198.5	3.00	3.56	<0.05	0.14	0.01	0.027	0.07	3.1	5.7	0.69	628	2.26	0.02	<0.05
SP003		40.7	0.44	0.31	<0.05	<0.02	0.03	<0.005	0.02	0.2	0.6	0.05	91	0.81	0.01	<0.05
PL001		25.2	3.17	7.72	0.05	0.04	<0.01	0.037	0.84	2.4	8.2	1.15	832	2.50	0.05	0.10
PL002		52.0	3.34	6.23	0.07	0.03	<0.01	0.037	0.02	3.1	11.0	1.11	2280	0.19	0.02	0.08
PL003		11.4	3.73	1.41	0.06	<0.02	<0.01	0.010	0.01	1.2	1.6	0.30	251	1.90	0.01	<0.05
T001		31.6	4.13	12.90	0.18	0.08	<0.01	0.031	0.19	79.9	12.3	1.48	718	0.20	0.09	0.10
T002		87.5	4.75	7.60	0.11	0.10	<0.01	0.012	0.02	3.5	16.5	2.43	602	0.18	0.05	0.17
T003		1880	5.59	7.83	<0.05	0.03	<0.01	0.065	0.14	2.1	13.5	1.80	470	0.39	0.02	<0.05
T004		80.0	2.39	2.42	<0.05	<0.02	<0.01	0.013	0.01	1.8	4.5	0.39	550	5.85	0.01	<0.05
T005		50.0	3.58	8.62	0.16	0.08	<0.01	0.028	0.53	87.5	9.0	1.17	542	0.41	0.07	0.15
T006		87.5	5.88	6.36	0.05	0.13	0.01	0.026	0.08	3.4	10.0	1.57	1240	1.81	0.01	<0.05
T007		160.5	8.45	5.91	0.06	0.34	0.01	0.025	0.16	4.4	6.6	1.00	424	1.02	0.01	<0.05
T008		355	12.60	14.80	0.11	0.11	0.01	0.035	0.11	6.3	25.2	2.52	1220	8.66	0.01	<0.05

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Finalized Date: 11-DEC-2018
Account: MACLOPMT

Project: Big Bear Project

CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
Nop001		93.9	1300	0.5	12.2	<0.001	0.17	<0.05	10.5	0.3	0.3	28.7	0.01	<0.01	0.4	0.177
Nop002		6.2	290	2.6	6.6	<0.001	0.13	<0.05	4.6	0.3	1.2	15.6	0.01	0.07	1.5	0.081
BB001		41.6	320	2.3	1.6	<0.001	0.01	<0.05	6.2	<0.2	<0.2	12.3	<0.01	0.01	0.2	0.162
BB002		150.0	110	0.4	0.4	<0.001	0.01	<0.05	1.8	0.2	<0.2	6.9	<0.01	0.01	<0.2	0.061
BB003		31.0	820	6.6	2.6	<0.001	0.04	<0.05	5.7	<0.2	0.5	25.8	<0.01	0.01	0.7	0.202
BB004		8.3	370	0.2	7.1	0.001	0.02	<0.05	4.7	<0.2	<0.2	7.8	<0.01	<0.01	0.2	0.152
SS001		44.6	160	8.3	1.0	<0.001	1.02	0.06	7.3	1.4	<0.2	241	<0.01	0.27	<0.2	0.008
SS002		20.4	460	1.2	15.8	0.001	0.09	<0.05	19.5	0.3	0.4	32.0	<0.01	0.02	0.4	0.113
SS003		74.3	1010	1.9	0.5	<0.001	0.34	<0.05	9.0	0.2	0.2	91.1	<0.01	0.03	3.3	0.016
SP001		4.1	30	0.3	1.0	<0.001	0.09	<0.05	0.5	0.3	<0.2	2.7	<0.01	0.54	<0.2	<0.005
SP002		53.0	540	2.4	3.0	<0.001	0.47	<0.05	6.4	0.7	0.2	10.2	<0.01	8.22	0.3	0.006
SP003		3.0	10	0.2	0.7	<0.001	0.03	<0.05	0.3	<0.2	<0.2	1.3	<0.01	0.25	<0.2	<0.005
PL001		15.3	190	1.6	30.7	0.001	0.16	0.05	11.9	0.3	0.4	22.7	<0.01	0.04	0.2	0.145
PL002		15.5	140	1.2	1.2	<0.001	0.03	<0.05	12.2	0.3	0.2	103.5	<0.01	0.04	<0.2	0.072
PL003		4.6	110	0.8	0.7	<0.001	0.28	0.07	1.6	0.3	0.2	8.9	<0.01	0.07	<0.2	0.006
T001		15.4	1830	4.9	9.9	<0.001	0.58	<0.05	6.8	<0.2	0.8	232	<0.01	0.02	12.5	0.103
T002		107.0	930	0.8	3.7	0.001	0.10	0.07	2.8	0.4	0.2	25.3	<0.01	0.01	0.3	0.154
T003		109.5	380	1.1	6.2	0.001	0.33	<0.05	8.3	1.0	<0.2	20.2	<0.01	0.21	0.2	0.041
T004		6.3	130	1.0	0.6	<0.001	0.60	<0.05	2.9	0.7	<0.2	10.3	<0.01	0.13	<0.2	<0.005
T005		15.2	1750	7.1	24.1	0.001	0.96	0.08	5.3	0.5	0.5	205	<0.01	0.06	12.7	0.087
T006		51.5	280	7.6	5.3	0.002	1.27	0.14	4.1	1.6	<0.2	53.5	<0.01	0.86	0.4	0.007
T007		80.5	580	2.6	3.7	<0.001	2.57	0.11	4.8	4.7	<0.2	5.4	<0.01	0.62	0.9	0.008
T008		29.3	450	2.1	4.3	0.002	4.80	0.05	15.8	5.8	<0.2	67.6	<0.01	0.74	0.3	0.048

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Project: Big Bear Project

CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
Nop001		0.02	0.06	171	0.12	6.89	106	1.9
Nop002		0.05	0.18	12	0.09	22.3	402	26.6
BB001		<0.02	0.05	86	0.23	3.49	18	2.3
BB002		<0.02	<0.05	17	0.15	1.79	5	1.2
BB003		<0.02	0.07	75	0.30	9.76	69	3.5
BB004		<0.02	<0.05	56	0.08	2.75	24	1.3
SS001		<0.02	0.16	49	0.16	12.60	71	1.4
SS002		0.05	<0.05	218	0.51	8.93	90	2.6
SS003		<0.02	0.55	89	0.14	8.44	68	14.8
SP001		<0.02	<0.05	5	0.06	0.46	3	1.1
SP002		0.02	0.09	43	0.08	6.58	30	5.5
SP003		<0.02	<0.05	4	0.08	0.24	3	<0.5
PL001		0.11	<0.05	119	4.67	8.32	26	1.4
PL002		<0.02	<0.05	90	0.15	15.90	53	0.8
PL003		<0.02	<0.05	18	0.44	2.07	17	<0.5
T001		0.06	2.44	77	0.18	20.0	85	10.8
T002		<0.02	<0.05	68	0.14	12.30	62	2.9
T003		0.03	<0.05	92	1.37	6.04	88	1.3
T004		<0.02	<0.05	33	0.16	3.05	16	0.6
T005		0.15	2.31	45	18.45	21.1	57	10.7
T006		0.03	0.08	63	0.18	4.90	87	5.9
T007		0.02	0.18	35	0.23	5.70	80	17.5
T008		0.02	<0.05	185	1.38	12.80	105	4.0

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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-MS41