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

QC 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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QC CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	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	ME-MS41 Cu ppm 0.2
STANDARDS																
EMOG-17		64.9	1.54	579	0.84	<10	40	0.42	5.60	0.92	20.1	41.2	743	44	5.82	8380
Target Range - Lower Bound		60.3	1.45	505	0.77	<10	30	0.32	5.32	0.87	18.35	37.6	680	42	5.57	7780
Upper Bound		73.7	1.79	617	0.99	20	80	0.56	6.52	1.09	22.5	46.0	832	54	6.91	8960
MRGeo08		4.32	2.61	34.9	<0.02	<10	440	0.82	0.67	1.10	2.07	72.6	18.7	91	10.25	614
Target Range - Lower Bound		4.00	2.44	29.6	<0.02	<10	370	0.67	0.60	1.00	2.01	66.2	17.0	81	9.40	587
Upper Bound		4.92	3.00	36.4	0.04	20	530	0.95	0.76	1.24	2.47	81.0	21.0	102	11.60	675
OREAS 905		0.48	0.78	33.8	0.37	<10	240	0.91	5.89	0.35	0.32	75.0	13.4	18	1.13	1560
Target Range - Lower Bound		0.45	0.73	28.4	0.33	<10	200	0.78	5.16	0.29	0.30	69.7	12.4	15	1.05	1450
Upper Bound		0.58	0.91	35.0	0.45	20	300	1.08	6.32	0.38	0.38	85.3	15.4	20	1.39	1670
OREAS 920		0.10	2.28	5.1	<0.02	<10	80	0.64	0.63	0.31	0.06	78.1	13.7	41	1.84	108.5
Target Range - Lower Bound		0.07	2.18	4.2	<0.02	<10	50	0.59	0.60	0.28	0.04	64.8	13.4	37	1.84	102.0
Upper Bound		0.12	2.68	5.3	0.04	20	110	0.87	0.76	0.37	0.08	79.2	16.6	48	2.36	118.0
BLANKS																
BLANK		<0.01	<0.01	0.2	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.01	<0.01	0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.02	0.02	0.2	0.04	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4
DUPLICATES																
ORIGINAL		0.05	0.02	3.6	<0.02	<10	3350	0.07	0.12	19.85	0.05	2.91	0.3	1	0.08	1.5
DUP		0.05	0.02	4.2	<0.02	<10	3190	0.07	0.11	19.75	0.04	3.10	0.3	1	0.08	0.8
Target Range - Lower Bound		0.04	<0.01	3.6	<0.02	<10	3010	<0.05	0.10	18.80	0.03	2.83	0.2	<1	<0.05	0.9
Upper Bound		0.06	0.03	4.2	0.04	20	3530	0.10	0.13	20.8	0.06	3.18	0.4	2	0.10	1.4
ORIGINAL		4.29	0.33	194.0	0.02	<10	200	0.08	0.11	0.02	0.01	11.95	0.1	8	0.69	4.4
DUP		4.54	0.34	198.5	0.03	<10	210	0.09	0.12	0.02	0.01	13.10	0.1	9	0.73	4.6
Target Range - Lower Bound		4.18	0.31	186.5	<0.02	<10	180	<0.05	0.10	<0.01	<0.01	11.90	<0.1	7	0.62	4.1
Upper Bound		4.65	0.36	206	0.04	20	230	0.10	0.13	0.03	0.02	13.15	0.2	10	0.80	4.9

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Finalized Date: 11-DEC-2018
Account: MACLOPMT

Project: Big Bear Project

QC CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	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	ME-MS41 Ni ppm 0.2
STANDARDS																
EMOG-17		4.58	5.93	0.10	0.44	0.55	0.881	0.67	19.7	17.4	0.76	630	1050	0.17	1.37	7700
Target Range - Lower Bound		4.18	5.56	0.08	0.39	0.46	0.814	0.60	18.3	17.2	0.73	595	1015	0.15	1.32	6930
Upper Bound		5.14	6.90	0.30	0.53	0.64	1.005	0.76	22.9	21.2	0.91	739	1240	0.20	1.72	8470
MRGeo08		3.50	9.48	0.13	0.64	0.05	0.145	1.24	34.9	34.2	1.13	403	13.75	0.35	1.05	693
Target Range - Lower Bound		3.22	8.73	0.07	0.64	0.04	0.137	1.12	33.2	29.6	1.03	378	13.10	0.30	0.79	622
Upper Bound		3.96	10.80	0.29	0.83	0.10	0.179	1.40	41.0	36.4	1.29	473	16.10	0.39	1.09	760
OREAS 905		3.39	5.98	0.08	1.03	0.01	0.554	0.31	37.5	4.3	0.15	344	2.70	0.10	0.30	8.7
Target Range - Lower Bound		3.14	5.45	<0.05	1.02	<0.01	0.517	0.28	34.7	4.0	0.13	310	2.65	0.07	0.19	7.8
Upper Bound		3.86	6.77	0.22	1.29	0.04	0.643	0.36	42.9	5.2	0.19	390	3.35	0.12	0.43	10.0
OREAS 920		3.52	6.37	0.07	0.51	0.01	0.031	0.40	36.1	19.2	1.04	505	0.36	0.03	0.32	35.6
Target Range - Lower Bound		3.26	6.12	<0.05	0.48	<0.01	0.019	0.37	33.3	19.0	0.93	454	0.26	<0.01	0.22	34.4
Upper Bound		4.00	7.60	0.22	0.63	0.02	0.043	0.47	41.1	23.4	1.15	566	0.50	0.02	0.46	42.4
BLANKS																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4
DUPLICATES																
ORIGINAL		0.06	0.08	<0.05	<0.02	0.18	<0.005	0.01	1.5	0.8	11.55	144	0.08	0.01	<0.05	0.7
DUP		0.07	0.08	<0.05	<0.02	0.16	<0.005	0.01	1.6	1.0	11.55	146	0.09	0.01	<0.05	1.2
Target Range - Lower Bound		0.05	<0.05	<0.05	<0.02	0.15	<0.005	<0.01	1.3	0.8	10.95	133	<0.05	<0.01	<0.05	0.7
Upper Bound		0.08	0.10	0.10	0.04	0.19	0.010	0.02	1.8	1.0	12.15	157	0.10	0.02	0.10	1.2
ORIGINAL		2.21	1.25	<0.05	0.05	0.06	0.022	0.20	5.5	0.5	0.01	26	3.10	0.05	<0.05	0.5
DUP		2.24	1.38	<0.05	0.05	0.06	0.023	0.21	5.8	0.5	0.01	27	3.29	0.05	<0.05	0.5
Target Range - Lower Bound		2.10	1.20	<0.05	0.03	0.05	0.016	0.18	5.2	0.4	<0.01	20	2.99	0.04	<0.05	0.3
Upper Bound		2.35	1.43	0.10	0.07	0.07	0.029	0.23	6.1	0.6	0.02	33	3.40	0.06	0.10	0.7

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Account: MACLOPMT

Project: Big Bear Project

QC CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	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	ME-MS41 Tl ppm 0.02
STANDARDS																
EMOG-17		750	6920	71.5	0.307	3.10	679	5.0	6.2	1.9	48.6	0.01	1.19	10.0	0.204	2.04
Target Range -	Lower Bound	680	6510	66.5	0.287	2.90	574	4.3	5.5	1.5	47.5	<0.01	1.16	9.3	0.188	1.71
	Upper Bound	850	7950	81.5	0.353	3.56	776	5.5	7.2	2.6	58.5	0.03	1.44	11.8	0.240	2.37
MRGeo08		1010	1060	142.0	0.008	0.31	3.16	7.7	0.9	3.2	79.9	0.01	0.02	20.0	0.377	0.73
Target Range -	Lower Bound	900	959	132.0	0.006	0.27	2.80	6.7	0.6	2.8	72.1	<0.01	<0.01	19.1	0.338	0.64
	Upper Bound	1130	1175	162.0	0.010	0.35	3.90	8.4	1.5	4.0	88.5	0.03	0.04	23.7	0.424	0.92
OREAS 905		240	15.7	17.3	<0.001	0.08	1.02	1.6	2.4	1.2	12.4	<0.01	0.06	8.2	0.020	0.09
Target Range -	Lower Bound		14.4	16.3	<0.001	0.04	0.83	1.5	1.8	0.8	10.9	<0.01	0.04	7.4	0.008	0.06
	Upper Bound		18.0	20.1	0.002	0.09	1.23	2.0	2.8	1.7	13.7	0.02	0.09	9.4	0.030	0.16
OREAS 920		700	20.6	22.6	<0.001	0.03	0.68	2.6	0.4	1.1	15.9	0.01	0.01	15.2	0.106	0.16
Target Range -	Lower Bound		19.2	22.2	<0.001	<0.01	0.45	2.5	<0.2	0.6	15.0	<0.01	<0.01	13.6	0.106	0.09
	Upper Bound		23.9	27.4	0.002	0.05	0.77	3.3	0.7	1.6	18.8	0.02	0.04	17.0	0.140	0.20
BLANKS																
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range -	Lower Bound	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
	Upper Bound	20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04
DUPLICATES																
ORIGINAL		170	1.9	0.4	<0.001	0.10	3.83	0.2	0.6	<0.2	121.0	<0.01	0.02	<0.2	<0.005	0.03
DUP		180	1.7	0.4	<0.001	0.10	3.70	0.2	0.6	<0.2	124.0	<0.01	0.03	<0.2	<0.005	0.03
Target Range -	Lower Bound	160	1.5	0.3	<0.001	0.09	3.43	<0.1	0.4	<0.2	116.0	<0.01	<0.01	<0.2	<0.005	<0.02
	Upper Bound	190	2.1	0.5	0.002	0.12	4.10	0.3	0.8	0.4	129.0	0.02	0.04	0.4	0.010	0.04
ORIGINAL		270	2.8	10.4	<0.001	0.23	12.55	0.7	1.7	<0.2	90.7	<0.01	0.02	0.4	<0.005	0.34
DUP		280	3.0	11.4	<0.001	0.24	13.25	0.8	1.8	<0.2	97.1	<0.01	0.01	0.4	<0.005	0.35
Target Range -	Lower Bound	250	2.6	10.3	<0.001	0.21	11.90	0.6	1.5	<0.2	89.0	<0.01	<0.01	<0.2	<0.005	0.30
	Upper Bound	300	3.2	11.5	0.002	0.26	13.90	0.9	2.0	0.4	98.8	0.02	0.02	0.6	0.010	0.39

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QC CERTIFICATE OF ANALYSIS TB18299766

Sample Description	Method / Analyte / Units / LOD	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
				STANDARDS			
EMOG-17		2.80	62	1.73	10.90	7060	12.0
Target Range - Lower Bound		2.57	58	1.65	10.20	6780	10.6
Upper Bound		3.25	74	2.35	12.60	8290	15.5
MRGeo08		5.33	99	2.51	18.85	764	21.7
Target Range - Lower Bound		4.93	90	2.44	17.50	708	18.1
Upper Bound		6.13	112	3.42	21.5	870	25.7
OREAS 905		2.19	6	0.59	6.79	65	42.7
Target Range - Lower Bound		1.92	4	0.41	6.32	56	39.9
Upper Bound		2.46	8	0.73	7.84	72	55.1
OREAS 920		2.05	24	0.75	16.05	101	17.8
Target Range - Lower Bound		1.89	21	0.31	15.80	93	17.6
Upper Bound		2.42	28	0.61	19.40	119	25.0
				BLANKS			
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0
				DUPLICATES			
ORIGINAL		0.22	1	0.31	1.98	12	<0.5
DUP		0.22	1	0.23	2.00	10	<0.5
Target Range - Lower Bound		0.16	<1	0.20	1.84	8	<0.5
Upper Bound		0.28	2	0.34	2.14	14	1.0
ORIGINAL		0.13	9	0.17	0.42	3	2.1
DUP		0.13	9	0.16	0.44	2	2.2
Target Range - Lower Bound		0.07	8	0.10	0.36	<2	1.5
Upper Bound		0.19	10	0.23	0.50	4	2.8

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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