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: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 14-JUN-2019
Account: MZI

CERTIFICATE TB19127091

Project: EMB

P.O. No.: 198288

This report is for 11 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-MAY-2019.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK DAVE PECK	DENIS DECHARTE LDIM WEBTRIEVE	CLAIRE MCGUINNESS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES

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 TB19127091

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
A0145469		1.35	18.55	0.04	0.11	28.1	21.1	0.02	0.01	<0.002	<0.01	0.05	<0.01	0.01	0.03	31.5
A0145470		0.08	83.8	5.54	3.24	0.04	0.45	0.06	0.64	0.014	0.31	0.18	0.11	<0.01	0.07	5.35
A0145471		2.92	40.9	2.79	14.30	6.12	25.8	0.19	0.03	0.544	0.16	0.20	0.01	<0.01	<0.01	7.09
A0145472		1.85	41.1	2.23	15.10	6.89	26.5	0.18	0.02	0.545	0.17	0.18	0.01	<0.01	<0.01	6.22
A0145473		3.11	41.5	3.04	14.10	7.42	25.3	0.18	0.03	0.474	0.16	0.20	0.01	<0.01	<0.01	7.32
A0145474		2.08	39.6	2.92	13.75	7.90	23.6	0.11	0.03	0.476	0.15	0.17	<0.01	<0.01	<0.01	10.85
A0145475		2.47	41.9	4.38	12.60	8.31	22.1	0.10	0.94	0.451	0.14	0.16	0.02	<0.01	0.02	9.51
A0145476		2.34	39.6	2.96	13.20	8.73	24.3	0.12	0.04	0.506	0.15	0.18	0.01	<0.01	<0.01	10.95
A0145477		2.31	40.0	2.76	14.15	7.51	26.5	0.12	0.01	0.539	0.15	0.18	0.01	<0.01	<0.01	8.50
A0145478		2.33	40.2	2.93	13.90	6.54	26.8	0.09	0.01	0.520	0.15	0.23	0.02	<0.01	<0.01	9.12
A0145479		2.62	41.3	3.15	14.55	6.60	26.4	0.12	0.01	0.507	0.16	0.22	<0.01	<0.01	<0.01	7.57

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CERTIFICATE OF ANALYSIS TB19127091

Sample Description	Method / Analyte / Units / LOD	TOT-ICP06 Total % 0.01	C-IR07 C % 0.01	S-IR08 S % 0.01	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
A0145469		99.52	8.17	0.02	264	3.3	10	0.10	0.17	0.06	0.07	0.1	0.28	<5	<0.2	0.03
A0145470		99.80	3.87	0.02	616	220	110	1.12	1.57	1.04	0.51	7.4	1.55	<5	1.8	0.34
A0145471		98.13	0.23	0.03	11.4	3.5	4350	1.07	0.85	0.45	0.21	4.5	0.87	<5	0.3	0.18
A0145472		99.15	0.13	0.02	8.8	2.8	4440	0.58	0.85	0.46	0.25	4.4	0.92	<5	0.5	0.19
A0145473		99.73	0.45	0.03	9.7	2.9	3760	0.87	0.81	0.49	0.21	4.7	1.03	<5	0.2	0.16
A0145474		99.56	1.70	0.05	10.3	2.4	3550	1.16	0.91	0.44	0.20	3.6	0.73	<5	0.3	0.12
A0145475		100.63	1.54	0.04	212	3.4	3530	18.65	0.70	0.50	0.28	6.7	0.73	<5	0.5	0.12
A0145476		100.75	1.42	0.05	13.8	8.6	3990	1.12	0.98	0.41	0.32	4.9	1.14	<5	0.5	0.15
A0145477		100.43	0.62	0.02	8.7	3.2	4070	0.45	0.83	0.41	0.22	4.3	0.87	<5	0.2	0.14
A0145478		100.51	0.58	0.03	7.4	3.7	4170	0.83	0.84	0.39	0.18	4.9	0.92	<5	0.3	0.14
A0145479		100.59	0.29	0.03	7.7	3.1	3980	0.84	0.80	0.48	0.18	4.5	0.93	<5	0.3	0.11

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CERTIFICATE OF ANALYSIS TB19127091

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
A0145469		2.1	<0.01	0.2	1.8	0.41	0.4	0.23	<1	155.5	0.1	0.03	0.54	0.01	0.22	<5
A0145470		158.0	0.22	5.6	57.0	19.65	25.6	3.80	3	57.9	0.5	0.26	6.62	0.18	8.11	92
A0145471		1.2	0.06	<0.2	2.8	0.51	1.2	0.80	<1	26.2	0.1	0.17	0.22	0.08	0.23	149
A0145472		1.0	0.07	<0.2	2.7	0.50	0.8	1.11	<1	19.1	0.2	0.15	0.07	0.06	0.06	156
A0145473		0.9	0.07	<0.2	3.1	0.53	1.0	0.86	<1	25.7	0.1	0.12	0.07	0.06	0.06	157
A0145474		0.9	0.07	<0.2	2.4	0.39	1.4	0.76	<1	46.1	0.1	0.11	0.06	0.08	<0.05	141
A0145475		1.6	0.05	0.3	2.8	0.60	36.3	0.64	<1	39.9	0.1	0.11	0.11	0.09	0.06	121
A0145476		3.6	0.06	3.6	5.7	1.22	2.0	1.30	<1	31.9	0.2	0.14	0.45	0.07	0.11	122
A0145477		1.1	0.06	0.5	2.9	0.52	0.7	0.67	<1	29.6	0.1	0.12	0.12	0.10	<0.05	135
A0145478		1.7	0.06	0.3	2.8	0.62	0.9	0.78	<1	20.0	0.1	0.12	0.40	0.07	0.13	137
A0145479		1.2	0.06	<0.2	2.4	0.45	0.9	0.86	<1	18.5	0.1	0.12	0.05	0.06	<0.05	138

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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
A0145469		1	0.9	0.07	2	0.5	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
A0145470		4	11.0	1.23	72	6.2	13.15	0.053	0.106	0.003	0.37	3.3	0.38	0.04	0.8	<0.5
A0145471		1	4.2	0.33	8	0.3	0.02	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
A0145472		1	4.7	0.45	16	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.7
A0145473		1	4.5	0.49	8	1.4	0.03	<0.005	0.007	<0.001	0.05	<0.2	0.01	0.03	<0.5	0.8
A0145474		1	4.0	0.46	7	2.5	0.04	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.06	<0.5	0.6
A0145475		1	3.8	0.37	12	5.9	0.03	<0.005	0.012	<0.001	<0.05	<0.2	0.01	0.28	<0.5	<0.5
A0145476		1	4.6	0.42	15	14.3	0.04	<0.005	0.012	<0.001	0.05	<0.2	0.01	0.09	<0.5	0.6
A0145477		1	4.2	0.38	7	5.4	0.02	<0.005	0.007	<0.001	0.05	<0.2	0.01	0.02	<0.5	0.8
A0145478		1	4.1	0.46	9	0.9	0.02	<0.005	0.009	<0.001	0.06	<0.2	0.02	0.32	<0.5	0.7
A0145479		1	4.3	0.37	8	0.3	0.01	<0.005	0.008	<0.001	0.06	<0.2	0.01	0.27	<0.5	0.8

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Sample Description	Method / Analyte / Units / LOD	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2	PGM-ICP23 Au ppb 1	PGM-ICP23 Pt ppb 5	PGM-ICP23 Pd ppb 1	Se-MS46 Se ppm 0.003
A0145469		1	1	10	<1	3	<2	<1	28	3	<5	<1	<0.003
A0145470		65	86	10	6	87	55	5	44	4910	1270	1970	2.82
A0145471		118	3	10	1	940	<2	31	78	<1	<5	3	0.008
A0145472		112	5	<10	1	994	2	33	76	<1	<5	2	0.006
A0145473		116	20	<10	<1	908	<2	33	92	<1	7	2	0.016
A0145474		97	13	<10	<1	780	<2	30	85	1	<5	2	0.017
A0145475		98	9	10	<1	714	2	25	82	2	<5	2	0.010
A0145476		106	13	<10	<1	758	<2	26	93	1	5	2	0.014
A0145477		116	3	<10	<1	826	2	29	89	1	<5	3	0.004
A0145478		109	1	10	<1	777	<2	28	92	<1	<5	6	0.008
A0145479		110	3	<10	<1	780	73	31	118	<1	<5	4	0.007

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP23	Se-MS46
	S-IR08	TOT-ICP06		