ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

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

Finalized Date: 30-JAN-2019
Account: MZI

CERTIFICATE TB19009491

Project: EMB

P.O. No.: 198288

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 11-JAN-2019.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK CLAIRE MCGUINNESS LDIM WEBTRIEVE	DENIS DECHARTE DAVE PECK	GARY DESCHUTTER KATHRYN STINSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-35	Pulv 250 g Split to 95%<106 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
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
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS
PGM-ICP23	Pt, Pd, Au 30g FA ICP	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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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
X788871		0.87	17.15	0.04	0.07	27.9	22.3	0.02	0.01	<0.002	<0.01	0.05	0.01	0.01	0.02	32.9
X788872		0.08	83.7	5.41	3.22	0.03	0.43	0.06	0.66	0.015	0.32	0.18	0.10	0.01	0.07	5.37
X788873		2.08	64.3	17.05	5.62	5.50	1.78	4.59	0.32	0.004	0.40	0.06	0.13	0.05	0.03	0.92
X788874		1.98	63.7	17.15	5.33	5.29	1.77	4.55	0.28	0.004	0.36	0.07	0.10	0.04	0.03	1.13
X788875		1.98	63.1	16.85	5.75	4.98	1.98	4.59	0.29	0.003	0.48	0.08	0.15	0.04	0.03	1.35
X788876		2.18	64.8	16.15	5.27	5.09	1.69	4.35	0.26	0.004	0.45	0.08	0.16	0.04	0.03	1.20
X788877		2.28	66.3	16.00	4.63	4.72	1.58	4.54	0.34	0.004	0.35	0.07	0.10	0.04	0.03	1.55
X788878		2.39	64.2	16.15	5.54	4.80	1.82	4.41	0.47	0.003	0.46	0.07	0.16	0.04	0.04	2.06
X788879		2.28	66.8	15.60	4.71	4.74	1.41	4.34	0.32	0.004	0.41	0.06	0.11	0.04	0.04	1.40
X788880		2.08	67.0	15.75	4.47	4.53	1.37	4.58	0.37	0.003	0.37	0.05	0.09	0.04	0.04	1.90
X788881		2.00	69.4	15.70	3.58	4.17	1.16	4.80	0.39	0.003	0.28	0.04	0.06	0.04	0.03	1.64
X788882		1.61	71.4	15.80	2.42	4.22	0.74	4.94	0.37	0.002	0.18	0.02	0.03	0.04	0.04	1.06
X788883		1.45	69.1	15.95	3.28	4.52	1.10	4.85	0.36	0.002	0.20	0.04	0.04	0.04	0.03	1.66
X788884		1.31	51.4	15.45	10.75	7.23	5.59	3.51	0.36	0.009	0.34	0.16	0.15	0.03	0.02	4.31
X788885		1.67	43.1	12.75	18.95	9.59	5.37	2.29	0.35	0.003	1.45	0.19	<0.01	0.03	0.02	4.10
X788886		1.35	48.8	15.85	14.20	7.82	4.74	3.43	0.39	0.003	0.97	0.15	0.02	0.03	0.02	3.63
X788887		1.29	55.8	16.85	8.31	5.45	5.19	4.19	0.35	0.009	0.13	0.13	0.10	0.03	0.02	3.10
X788888		1.45	68.6	16.85	2.79	4.34	1.23	5.44	0.39	0.002	0.11	0.03	0.02	0.05	0.04	1.25
X788889		1.58	70.9	16.30	2.60	3.88	0.82	5.22	0.48	0.003	0.17	0.02	0.03	0.05	0.04	0.93
X788890		2.12	71.7	15.65	2.46	3.78	0.77	5.02	0.43	0.002	0.17	0.02	0.03	0.05	0.04	1.00
X788891		0.08	46.6	12.70	20.4	6.18	6.69	2.18	0.63	0.033	1.25	0.18	0.16	0.03	0.02	1.13
X788892		2.21	68.0	16.25	3.47	4.04	1.16	4.87	0.50	0.003	0.23	0.04	0.03	0.04	0.04	0.94
X788893		2.22	68.0	15.80	3.19	4.13	1.00	4.81	0.54	0.003	0.18	0.04	0.01	0.04	0.04	1.24
X788894		2.38	68.8	16.60	3.88	4.36	1.22	4.93	0.64	0.004	0.28	0.03	0.03	0.04	0.08	0.92
X788895		2.18	68.9	15.65	2.21	3.73	0.70	5.36	0.52	0.002	0.17	0.02	0.02	0.05	0.04	0.81
X788896		2.25	62.5	16.90	5.46	4.31	1.76	5.23	0.28	0.005	0.34	0.05	0.02	0.05	0.04	4.49
X788897		2.27	67.2	16.20	3.94	4.28	1.49	5.07	0.30	0.006	0.27	0.04	0.03	0.05	0.04	1.25
X788898		2.16	67.3	17.15	3.42	4.89	1.25	5.04	0.23	0.003	0.19	0.03	0.02	0.05	0.03	1.26
X788899		2.43	66.4	16.95	3.85	4.71	1.38	4.89	0.25	0.003	0.27	0.03	0.06	0.04	0.03	1.44
X788900		2.27	66.7	16.40	4.32	4.68	2.01	4.81	0.27	0.011	0.26	0.05	0.07	0.04	0.03	1.58
X788901		1.93	62.7	18.40	4.75	5.29	2.20	5.25	0.24	0.006	0.29	0.06	0.05	0.05	0.03	1.46
X788902		2.24	71.7	15.80	2.56	4.10	0.86	5.02	0.20	0.002	0.19	0.02	0.01	0.05	0.03	0.98
X788903		2.34	70.6	14.80	2.22	3.97	0.59	4.72	0.17	0.003	0.11	0.02	0.01	0.05	0.02	0.97
X788904		1.51	62.7	19.30	2.09	6.34	1.23	5.09	0.20	0.003	0.03	0.02	<0.01	0.07	0.02	1.78
X788905		1.36	64.4	19.85	2.11	6.32	1.17	5.24	0.21	0.002	0.03	0.02	0.01	0.08	0.02	1.37
X788906		2.03	57.3	18.65	6.34	6.20	3.17	4.98	0.16	0.009	0.44	0.08	0.07	0.05	0.02	2.98
X788907		2.46	53.0	20.0	7.61	7.82	4.01	5.00	0.25	0.011	0.58	0.10	0.15	0.05	0.02	3.27
X788908		2.37	54.7	21.6	5.60	7.08	3.33	5.01	0.22	0.006	0.24	0.07	0.01	0.07	0.02	2.76
X788909		2.29	61.4	17.85	4.47	5.48	3.06	4.63	0.30	0.006	0.18	0.05	0.01	0.06	0.02	3.51
X788910		2.57	63.8	18.30	3.44	5.67	1.88	4.98	0.24	0.006	0.16	0.04	0.01	0.07	0.01	2.36

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Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

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
X788871		100.48	8.31	0.01	147.5	<0.1	<10	0.27	<0.05	<0.03	<0.03	0.1	<0.05	<5	<0.2	<0.01
X788872		99.58	3.96	0.01	695	251	130	1.27	1.71	0.91	0.52	8.2	1.68	<5	2.3	0.33
X788873		100.75	0.04	0.05	272	24.2	40	2.45	0.84	0.37	1.03	23.9	1.21	<5	1.3	0.14
X788874		99.80	0.05	0.07	316	22.4	40	2.46	0.76	0.38	1.02	24.0	1.04	<5	1.2	0.12
X788875		99.67	0.06	0.07	290	37.2	40	1.95	1.29	0.73	1.20	24.8	2.09	<5	1.8	0.22
X788876		99.57	0.08	0.04	307	49.4	40	1.87	1.21	0.59	1.31	23.0	2.12	<5	2.1	0.21
X788877		100.25	0.15	0.05	311	31.5	40	2.46	1.00	0.51	1.14	20.7	1.46	<5	1.6	0.18
X788878		100.22	0.24	0.13	368	45.4	30	4.76	1.26	0.54	1.25	22.7	1.74	<5	2.5	0.24
X788879		99.98	0.15	0.07	349	34.5	30	2.98	0.95	0.46	1.15	21.6	1.57	<5	2.1	0.17
X788880		100.56	0.23	0.15	330	22.5	30	2.83	0.61	0.22	1.12	21.0	0.94	<5	1.5	0.08
X788881		101.29	0.18	0.09	321	16.8	30	2.43	0.37	0.15	0.94	19.9	0.67	<5	1.3	0.06
X788882		101.26	0.11	0.06	377	30.5	30	1.68	0.44	0.13	1.04	19.4	0.74	<5	1.7	0.10
X788883		101.17	0.23	0.09	314	23.7	30	2.05	0.49	0.20	1.03	19.9	0.64	<5	1.4	0.07
X788884		99.31	0.61	0.22	193.0	21.6	80	2.98	1.34	0.79	0.68	19.2	1.46	<5	0.7	0.27
X788885		98.19	0.92	0.84	128.0	7.5	20	12.60	1.66	0.93	0.61	18.6	1.33	<5	0.7	0.30
X788886		100.05	0.58	0.63	173.5	11.6	20	10.45	1.17	0.63	0.50	20.7	1.12	<5	0.7	0.22
X788887		99.66	0.22	0.08	206	29.5	70	3.04	1.06	0.40	0.47	20.7	1.27	<5	0.9	0.19
X788888		101.14	0.10	0.03	332	28.8	20	2.10	0.44	0.17	0.51	19.7	0.59	<5	1.1	0.08
X788889		101.44	0.09	0.04	339	29.7	20	2.03	0.43	0.23	0.58	19.5	0.77	<5	1.4	0.08
X788890		101.12	0.10	0.05	380	32.6	20	2.12	0.33	0.15	0.64	19.2	0.74	<5	1.4	0.07
X788891		98.18	0.07	1.82	218	25.6	240	0.93	2.41	1.37	1.02	16.0	2.94	<5	2.4	0.51
X788892		99.61	0.07	0.03	391	25.5	20	2.29	0.30	0.15	0.78	21.0	0.51	<5	1.6	0.06
X788893		99.02	0.11	0.11	362	21.9	20	1.73	0.21	0.10	0.75	19.3	0.36	<5	1.4	0.03
X788894		101.81	0.11	0.04	723	24.7	30	5.09	0.28	0.15	0.78	21.8	0.63	<5	1.3	0.06
X788895		98.18	0.14	0.07	405	22.5	20	1.87	0.28	0.17	0.57	17.2	0.52	<5	1.6	0.05
X788896		101.44	0.28	0.42	398	29.1	30	2.73	0.24	0.12	0.84	22.9	0.58	<5	1.0	0.05
X788897		100.17	0.11	0.24	383	25.5	40	1.67	0.31	0.22	0.77	20.5	0.52	<5	1.4	0.08
X788898		100.86	0.17	0.15	302	22.9	30	1.88	0.20	0.08	0.83	20.7	0.35	<5	0.7	0.04
X788899		100.30	0.15	0.32	314	25.1	20	1.61	0.26	0.09	0.85	20.6	0.46	<5	1.2	0.04
X788900		101.23	0.17	0.12	261	22.6	80	2.35	0.43	0.21	0.77	20.4	0.73	<5	1.3	0.09
X788901		100.78	0.14	0.07	318	16.5	50	3.64	0.55	0.35	0.86	24.2	0.74	<5	1.1	0.10
X788902		101.52	0.10	0.24	274	10.4	20	1.14	0.12	0.04	0.72	18.6	0.23	<5	0.5	0.02
X788903		98.25	0.13	0.17	223	7.8	20	0.86	0.06	<0.03	0.56	16.2	0.15	<5	0.5	0.01
X788904		98.87	0.32	0.03	169.5	3.8	20	1.09	0.05	<0.03	0.52	20.6	0.06	<5	0.2	0.01
X788905		100.83	0.18	0.01	175.5	4.0	20	1.27	0.05	<0.03	0.59	20.5	0.11	<5	0.2	0.01
X788906		100.45	0.44	0.16	190.5	11.1	60	1.50	0.38	0.20	0.54	22.4	0.46	<5	1.2	0.07
X788907		101.87	0.46	0.13	167.0	13.2	70	1.95	1.16	0.67	0.76	21.6	1.47	<5	0.5	0.22
X788908		100.72	0.30	0.04	167.0	7.5	40	1.77	0.12	0.10	0.66	25.6	0.22	<5	0.3	0.02
X788909		101.03	0.47	0.04	149.5	7.3	50	1.29	0.24	0.14	0.47	19.5	0.35	<5	0.3	0.05
X788910		100.97	0.35	0.08	144.5	7.0	40	1.11	0.06	0.04	0.61	20.1	0.10	<5	0.4	0.01

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Sample Description	Method / Analyte / Units / LOD	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5
X788871		0.5	<0.01	<0.2	0.2	0.05	0.8	<0.03	<1	127.0	<0.1	<0.01	0.08	<0.01	0.19	<5
X788872		182.0	0.19	6.0	60.3	22.8	28.2	3.93	3	68.0	0.4	0.25	7.38	0.15	7.72	104
X788873		13.9	0.06	0.7	9.2	2.66	5.7	1.42	1	479	0.1	0.13	0.72	0.05	<0.05	87
X788874		13.2	0.04	0.7	8.6	2.42	4.1	1.35	<1	439	<0.1	0.13	0.81	0.04	0.05	81
X788875		20.8	0.07	1.9	14.2	4.08	4.6	2.50	<1	467	0.1	0.26	1.73	0.09	0.10	88
X788876		27.7	0.06	2.3	17.7	5.50	3.6	2.52	1	413	0.2	0.24	4.09	0.07	0.08	81
X788877		18.2	0.04	1.9	10.4	3.29	5.5	1.83	<1	368	0.1	0.17	1.39	0.07	0.09	61
X788878		25.2	0.06	2.6	16.1	4.91	8.8	2.45	<1	375	0.1	0.20	2.36	0.05	0.14	77
X788879		20.2	0.04	2.1	12.3	3.69	4.8	2.00	<1	367	0.1	0.17	0.98	0.04	0.13	65
X788880		13.6	0.03	1.3	7.9	2.37	6.7	1.20	<1	370	0.1	0.10	0.75	0.04	0.08	63
X788881		10.8	0.03	0.8	5.8	1.83	7.5	0.95	<1	359	0.1	0.08	0.82	0.03	0.09	46
X788882		19.3	0.02	1.0	8.9	3.00	4.7	1.13	1	395	0.1	0.08	1.25	0.03	0.10	25
X788883		15.0	0.03	0.9	7.0	2.34	6.0	1.26	<1	392	0.1	0.08	1.06	0.03	0.11	34
X788884		11.4	0.08	0.6	9.9	2.64	8.7	1.90	<1	292	0.1	0.21	0.62	0.10	<0.05	151
X788885		3.5	0.11	0.8	4.7	1.13	11.5	1.27	<1	233	0.1	0.22	0.43	0.14	0.05	656
X788886		6.7	0.09	0.9	5.7	1.39	11.5	1.10	<1	299	0.1	0.17	0.69	0.08	0.08	511
X788887		16.4	0.07	0.8	10.7	3.13	9.6	1.81	<1	329	0.1	0.17	1.48	0.06	0.26	59
X788888		17.5	0.03	0.8	8.5	2.83	5.5	1.26	<1	494	0.1	0.07	1.08	0.01	0.11	31
X788889		17.9	0.03	1.3	8.8	2.79	5.1	1.25	<1	428	0.1	0.09	1.51	0.02	0.34	23
X788890		19.6	0.03	1.1	10.5	3.07	5.0	1.44	<1	449	0.1	0.08	1.61	0.01	0.10	27
X788891		12.1	0.20	7.0	13.7	3.21	16.0	3.33	3	254	0.5	0.40	1.61	0.18	0.42	125
X788892		16.3	0.03	0.8	7.5	2.32	5.1	0.78	<1	365	0.1	0.07	0.75	0.02	0.09	33
X788893		14.7	0.02	0.5	5.9	1.91	4.1	0.64	<1	327	0.1	0.04	0.49	0.01	0.08	34
X788894		15.2	0.03	1.0	7.0	2.30	5.4	1.09	<1	365	0.1	0.08	0.80	0.02	0.10	56
X788895		14.2	0.03	1.2	7.0	2.13	8.9	0.90	<1	467	0.1	0.06	0.93	0.02	0.13	25
X788896		18.6	0.02	0.8	8.8	2.69	4.7	1.01	<1	441	0.1	0.04	0.83	0.01	0.07	60
X788897		16.4	0.03	0.7	8.1	2.35	3.2	0.95	<1	444	0.1	0.06	0.44	0.02	0.07	43
X788898		15.3	0.02	0.4	6.2	2.02	2.9	0.79	<1	484	0.1	0.03	0.36	0.01	0.05	41
X788899		16.4	0.02	0.8	7.3	2.32	3.7	0.85	<1	406	0.1	0.05	0.37	0.01	0.06	42
X788900		14.0	0.03	0.9	7.6	2.20	5.4	1.10	<1	409	0.1	0.08	0.42	0.03	0.18	52
X788901		10.2	0.05	1.0	5.6	1.61	5.5	0.74	<1	440	0.1	0.07	0.30	0.03	0.15	58
X788902		7.5	<0.01	0.3	2.9	0.92	3.1	0.35	<1	486	0.1	0.03	0.16	<0.01	0.11	28
X788903		5.8	<0.01	<0.2	2.0	0.71	2.8	0.19	<1	473	0.1	0.01	0.18	<0.01	<0.05	18
X788904		3.3	0.01	<0.2	1.0	0.34	3.9	0.09	<1	640	<0.1	0.01	0.09	<0.01	<0.05	13
X788905		3.2	0.01	<0.2	1.0	0.35	4.0	0.13	<1	691	<0.1	<0.01	0.08	0.01	<0.05	9
X788906		6.8	0.04	1.0	4.2	1.18	3.3	0.53	<1	421	0.1	0.07	0.34	0.02	0.14	71
X788907		6.6	0.09	1.2	7.5	1.81	4.3	1.61	<1	428	0.1	0.23	0.14	0.10	0.10	116
X788908		5.7	0.02	0.3	2.3	0.72	4.8	0.37	<1	580	0.1	0.02	0.13	0.01	<0.05	60
X788909		5.2	0.02	0.2	2.5	0.73	7.4	0.31	<1	532	<0.1	0.05	0.12	0.01	0.05	50
X788910		5.4	<0.01	<0.2	1.9	0.59	5.4	0.22	<1	583	0.1	0.01	0.12	<0.01	<0.05	38

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

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

Sample Description	Method / Analyte / Units / LOD	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5
X788871		1	0.2	<0.03	<2	0.5	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X788872		4	11.9	1.04	80	5.5	12.85	0.062	0.098	0.003	0.43	3.0	0.40	0.04	0.8	<0.5
X788873		<1	3.8	0.33	51	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788874		1	3.5	0.21	46	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X788875		1	6.6	0.57	73	0.3	0.02	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788876		1	6.1	0.62	84	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X788877		1	4.5	0.32	71	0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X788878		<1	5.9	0.45	106	0.1	0.06	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X788879		1	4.7	0.32	84	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X788880		<1	2.9	0.19	65	<0.1	0.12	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788881		<1	2.0	0.15	54	0.1	0.05	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788882		1	2.0	0.12	71	0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
X788883		<1	1.9	0.19	59	0.2	0.08	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X788884		<1	7.0	0.65	29	<0.1	0.08	<0.005	0.012	0.001	<0.05	0.4	0.02	0.08	<0.5	0.5
X788885		1	8.5	0.80	19	0.2	0.77	<0.005	0.016	0.002	<0.05	0.7	0.10	0.15	<0.5	0.8
X788886		1	6.3	0.60	25	<0.1	0.58	<0.005	0.015	0.001	<0.05	0.4	0.07	0.10	<0.5	0.5
X788887		1	5.0	0.46	31	0.1	0.09	0.005	0.013	<0.001	<0.05	<0.2	0.02	0.08	<0.5	0.5
X788888		<1	2.0	0.14	43	0.1	0.06	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
X788889		<1	2.3	0.20	55	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788890		<1	1.8	0.14	61	0.1	0.07	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788891		6	13.1	1.34	98	4.1	1.00	0.011	0.060	0.006	0.44	5.0	0.65	0.10	1.7	1.0
X788892		<1	1.4	0.13	70	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X788893		1	0.9	0.11	54	0.2	0.05	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
X788894		<1	1.6	0.18	57	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X788895		<1	1.5	0.16	66	0.1	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
X788896		<1	1.3	0.13	42	<0.1	1.12	<0.005	0.007	<0.001	<0.05	0.3	0.14	0.03	<0.5	<0.5
X788897		<1	1.7	0.16	57	0.1	0.28	<0.005	<0.005	<0.001	<0.05	0.3	0.03	0.02	<0.5	<0.5
X788898		<1	0.8	0.05	31	0.1	0.11	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	0.02	<0.5	<0.5
X788899		1	1.2	0.10	51	0.1	0.08	<0.005	<0.005	<0.001	<0.05	<0.2	0.04	0.04	<0.5	<0.5
X788900		1	2.0	0.24	46	0.4	0.14	<0.005	<0.005	<0.001	0.35	<0.2	0.04	0.02	<0.5	<0.5
X788901		<1	2.5	0.31	41	0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
X788902		1	0.5	0.03	22	0.1	0.19	<0.005	<0.005	0.001	<0.05	<0.2	0.05	0.03	<0.5	<0.5
X788903		<1	0.3	<0.03	18	0.2	0.14	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
X788904		<1	0.2	0.04	8	0.1	0.09	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
X788905		<1	0.2	<0.03	6	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X788906		<1	1.8	0.23	51	<0.1	0.11	<0.005	0.007	<0.001	<0.05	<0.2	0.03	0.03	<0.5	0.5
X788907		<1	5.8	0.58	16	0.5	1.11	<0.005	0.006	<0.001	<0.05	<0.2	0.14	0.05	<0.5	0.5
X788908		<1	0.7	0.07	11	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788909		<1	1.4	0.17	10	0.2	0.04	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X788910		<1	0.3	<0.03	15	0.2	0.07	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5

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

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

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	Cu-OG62 Cu ppm 10	Ni-OG62 Ni ppm 10	PGM-ICP23 Au ppb 1	PGM-ICP23 Pt ppb 5	PGM-ICP23 Pd ppb 1	Se-MS46 Se ppm 0.003
X788871		1	2	10	<1	3	<2	<1	20			<1	<5	<1	<0.003
X788872		61	85	10	6	86	57	5	45			4960	1300	2020	3.19
X788873		12	28	20	<1	19	3	8	46			<1	<5	<1	0.060
X788874		13	37	10	<1	17	3	7	56			<1	<5	<1	0.064
X788875		14	38	20	<1	33	7	9	73			<1	<5	<1	0.107
X788876		13	28	20	<1	17	6	8	78			<1	<5	<1	0.065
X788877		10	58	20	2	19	5	8	71			<1	<5	<1	0.082
X788878		13	76	20	<1	15	5	8	73			<1	<5	<1	0.126
X788879		10	79	20	1	9	<2	7	81			<1	<5	<1	0.094
X788880		10	50	20	1	10	<2	7	61			<1	<5	<1	0.121
X788881		8	25	20	<1	10	<2	5	42			<1	<5	<1	0.066
X788882		6	26	10	1	5	<2	3	32			<1	<5	<1	0.060
X788883		8	37	10	<1	11	9	5	50			<1	<5	<1	0.091
X788884		47	87	30	1	148	2	27	122			2	6	20	0.299
X788885		73	254	30	1	84	<2	51	126			<1	<5	1	0.572
X788886		52	151	40	<1	67	<2	36	98			<1	<5	<1	0.428
X788887		36	58	40	<1	133	<2	16	140			<1	5	20	0.162
X788888		8	18	20	1	15	4	5	42			<1	<5	1	0.041
X788889		4	20	20	<1	5	5	2	41			<1	<5	<1	0.039
X788890		5	26	10	1	2	21	3	50			<1	<5	<1	0.061
X788891		115	4560	20	5	4440	18	12	107			76	314	595	3.84
X788892		8	22	20	1	11	3	4	52			<1	<5	<1	0.039
X788893		7	55	20	1	8	<2	4	43			<1	<5	<1	0.079
X788894		8	15	20	<1	10	2	4	66			<1	<5	<1	0.026
X788895		5	26	10	1	4	2	2	33			<1	<5	<1	0.065
X788896		12	104	20	<1	14	<2	7	70			<1	<5	<1	0.244
X788897		9	74	20	<1	17	2	6	41			<1	<5	<1	0.173
X788898		7	43	10	1	10	<2	3	44			<1	<5	<1	0.074
X788899		9	113	20	<1	9	2	3	58			1	<5	<1	0.114
X788900		12	39	20	<1	31	3	5	63			<1	<5	<1	0.102
X788901		12	28	20	<1	25	<2	7	74			<1	<5	<1	0.054
X788902		7	97	10	1	5	2	2	30			<1	<5	<1	0.167
X788903		4	74	10	1	2	<2	1	21			<1	<5	<1	0.115
X788904		6	37	20	1	6	<2	2	23			<1	<5	<1	0.021
X788905		5	8	10	1	7	<2	2	22			<1	<5	<1	0.008
X788906		21	109	20	<1	39	5	8	88			1	<5	<1	0.102
X788907		23	84	30	2	46	10	13	105			<1	<5	<1	0.086
X788908		21	70	20	1	35	<2	5	72			<1	<5	5	0.031
X788909		16	63	40	1	33	12	7	59			2	<5	5	0.026
X788910		11	117	20	<1	22	<2	3	37			1	<5	<1	0.052

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

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
X788911		2.33	18.65	0.05	0.13	27.9	21.5	0.04	0.01	<0.002	<0.01	0.04	<0.01	0.02	0.01	31.3
X788912		2.35	55.2	19.20	4.72	6.25	2.85	5.62	0.18	0.008	0.21	0.06	0.01	0.07	0.01	3.80
X788913		2.36	53.9	22.4	4.09	7.25	3.02	5.57	0.18	0.010	0.06	0.05	0.01	0.08	0.01	3.27
X788914		2.40	53.6	21.4	4.35	6.98	3.02	5.74	0.22	0.006	0.14	0.06	0.01	0.08	0.01	3.66
X788915		2.51	54.9	22.3	4.55	7.55	3.29	5.40	0.27	0.008	0.16	0.06	0.01	0.08	0.02	2.12
X788916		2.24	54.6	23.2	3.99	7.86	2.74	5.49	0.33	0.004	0.17	0.05	0.01	0.08	0.02	1.60
X788917		2.44	54.0	18.25	5.63	7.46	7.93	4.18	0.45	0.073	0.07	0.09	0.01	0.06	0.02	2.30
X788918		2.75	53.3	2.78	10.10	8.63	21.1	0.23	0.02	0.305	0.20	0.20	0.01	<0.01	<0.01	2.97
X788919		2.66	51.4	3.20	10.10	10.10	20.4	0.20	0.03	0.354	0.24	0.20	0.01	<0.01	<0.01	3.87
X788920		2.61	49.7	2.86	9.53	11.35	19.75	0.22	0.08	0.410	0.27	0.19	<0.01	<0.01	<0.01	5.25
X788921		2.73	49.3	3.16	9.35	12.10	19.65	0.25	0.08	0.411	0.25	0.19	<0.01	<0.01	<0.01	5.38
X788922		2.16	50.6	4.46	10.95	9.67	19.70	0.41	0.36	0.363	0.28	0.20	0.01	<0.01	0.01	3.56
X788923		2.95	47.2	3.12	9.12	11.95	19.30	0.28	0.10	0.419	0.26	0.16	0.01	0.01	<0.01	7.45
X788924		2.67	46.3	2.58	10.00	11.85	20.9	0.19	0.10	0.447	0.26	0.19	0.01	<0.01	<0.01	6.70
X788925		2.67	47.0	2.91	10.65	11.90	21.6	0.22	0.03	0.430	0.26	0.19	0.01	<0.01	<0.01	4.86
X788926		2.79	47.0	3.13	12.00	11.05	22.6	0.36	0.06	0.419	0.29	0.20	0.01	<0.01	<0.01	3.41
X788927		2.72	46.3	3.25	12.10	10.80	22.7	0.42	0.08	0.407	0.32	0.20	0.01	0.01	<0.01	3.07
X788928		2.63	46.1	3.01	12.95	10.55	23.4	0.38	0.08	0.411	0.33	0.21	0.02	<0.01	<0.01	3.34
X788929		2.95	45.8	3.91	12.80	10.30	22.4	0.48	0.10	0.406	0.30	0.20	0.01	0.01	<0.01	3.29
X788930		2.87	44.7	3.68	14.20	8.37	23.9	0.40	0.10	0.408	0.26	0.21	0.01	0.01	0.01	4.28
X788931		0.08	33.4	9.96	25.3	4.89	6.70	1.57	0.37	0.048	0.86	0.13	0.11	0.02	0.01	7.15
X788932		2.80	44.3	4.54	14.05	7.04	22.3	0.55	0.14	0.391	0.21	0.20	0.01	0.01	<0.01	5.41
X788933		2.74	46.3	4.44	14.55	8.15	21.6	0.48	0.09	0.429	0.27	0.22	0.01	0.01	<0.01	3.00
X788934		2.50	45.9	3.88	15.30	8.09	21.4	0.36	0.06	0.404	0.26	0.22	0.02	<0.01	<0.01	3.81
X788935		2.99	49.9	4.47	14.60	8.71	20.4	0.48	0.08	0.358	0.28	0.24	0.01	0.01	<0.01	0.90
X788936		2.90	48.9	5.87	14.15	8.08	19.30	0.56	0.18	0.374	0.24	0.23	0.02	<0.01	<0.01	2.53
X788937		2.83	50.8	5.30	14.20	8.32	19.10	0.60	0.10	0.350	0.28	0.24	0.01	0.01	<0.01	0.99
X788938		2.77	52.4	8.20	11.90	10.15	16.05	1.06	0.16	0.251	0.27	0.22	0.01	0.02	0.01	0.30
X788939		2.52	51.8	9.47	11.25	10.20	14.75	1.25	0.17	0.206	0.26	0.21	0.01	0.03	0.01	0.05
X788940		3.03	51.7	8.28	12.00	10.15	15.65	1.06	0.14	0.220	0.28	0.23	0.01	0.02	0.01	0.05
X788941		2.69	50.7	14.35	9.97	12.20	9.32	1.86	0.21	0.077	0.29	0.18	0.01	0.02	0.01	0.52
X788942		2.65	51.0	16.10	8.29	12.60	7.63	2.36	0.33	0.061	0.28	0.16	0.02	0.03	0.01	1.03
X788943		2.65	52.1	11.90	9.42	10.15	13.10	1.62	0.17	0.152	0.22	0.17	0.01	0.04	0.01	0.30
X788944		2.86	51.8	10.85	9.31	9.60	13.30	1.61	0.27	0.155	0.22	0.18	0.01	0.03	0.01	1.30
X788945		2.69	55.4	11.35	8.68	8.90	12.40	2.00	0.39	0.145	0.21	0.16	0.01	0.04	0.02	0.84
X788946		2.61	57.1	9.19	9.34	8.44	13.35	1.86	0.48	0.170	0.24	0.17	0.02	0.02	0.01	0.59
X788947		2.67	52.5	7.76	11.55	10.05	17.20	0.88	0.11	0.224	0.27	0.22	0.01	0.02	<0.01	-0.09
X788948		0.08	47.0	12.40	20.6	6.16	6.59	2.16	0.62	0.034	1.24	0.19	0.15	0.03	0.02	1.19

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

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

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
X788911		99.65	8.26	0.01	94.1	0.7	<10	0.17	0.07	0.04	<0.03	0.1	0.09	<5	<0.2	0.01
X788912		98.19	0.63	0.15	122.5	6.7	50	0.83	0.05	0.05	0.52	20.8	0.13	<5	0.3	0.02
X788913		99.90	0.45	0.02	127.0	5.2	70	1.17	0.05	0.05	0.58	23.9	0.08	<5	<0.2	0.01
X788914		99.28	0.55	0.10	144.0	5.4	40	1.61	0.09	0.05	0.51	22.8	0.09	<5	0.2	0.01
X788915		100.72	0.20	0.02	147.0	6.2	60	1.51	0.09	0.05	0.55	24.1	0.13	<5	0.2	0.02
X788916		100.14	0.12	0.01	153.5	5.9	30	2.49	<0.05	0.03	0.61	25.7	0.11	<5	0.2	0.01
X788917		100.52	0.14	0.04	164.5	7.7	530	2.43	0.23	0.15	0.54	20.4	0.32	<5	0.3	0.04
X788918		99.85	0.08	0.20	4.2	7.1	2140	0.75	0.72	0.49	0.26	5.8	0.76	<5	1.0	0.13
X788919		100.10	0.31	0.02	4.8	7.6	2460	0.91	1.08	0.55	0.26	5.5	1.14	<5	0.6	0.20
X788920		99.61	0.72	0.01	15.5	8.3	2850	3.77	1.31	0.64	0.31	5.1	1.43	<5	0.6	0.28
X788921		100.12	0.73	0.02	17.0	6.2	2870	2.94	1.08	0.74	0.36	5.3	1.39	<5	0.4	0.26
X788922		100.57	0.22	0.01	69.6	6.2	2700	14.70	1.10	0.69	0.36	7.0	1.15	<5	0.6	0.25
X788923		99.38	1.30	0.05	24.4	8.9	3250	4.42	1.35	0.71	0.36	5.4	1.47	<5	0.5	0.25
X788924		99.53	1.18	0.05	19.7	8.6	3400	3.92	1.27	0.75	0.37	4.9	1.53	<5	0.6	0.28
X788925		100.06	0.46	0.03	14.9	6.2	3270	0.63	1.28	0.88	0.35	5.1	1.75	<5	0.5	0.25
X788926		100.53	0.06	0.03	26.9	6.3	3200	0.96	1.65	0.98	0.39	5.2	1.73	<5	0.5	0.30
X788927		99.67	0.03	0.02	30.0	6.9	2990	0.86	1.82	0.88	0.39	5.3	1.86	<5	0.7	0.35
X788928		100.78	0.04	0.02	27.5	6.1	3100	1.07	1.75	0.89	0.46	5.6	1.92	<5	0.7	0.35
X788929		100.01	0.04	0.01	38.5	5.8	3120	1.59	1.69	1.00	0.46	6.1	1.89	<5	0.6	0.33
X788930		100.54	0.07	0.02	48.0	4.4	3060	2.07	1.26	0.68	0.33	5.5	1.40	<5	0.5	0.27
X788931		90.52	0.09	8.99	118.5	15.5	370	0.82	1.81	1.10	0.74	12.2	1.97	<5	1.5	0.32
X788932		99.15	0.22	0.02	40.6	5.1	2920	2.61	1.03	0.58	0.33	7.4	1.06	<5	0.5	0.20
X788933		99.55	0.03	0.02	38.4	5.1	3330	1.77	1.44	0.86	0.35	6.9	1.47	<5	0.5	0.24
X788934		99.70	0.03	0.03	26.1	3.6	3080	2.39	1.36	0.75	0.31	6.0	1.33	<5	0.4	0.24
X788935		100.44	0.05	0.01	32.2	3.7	2770	1.16	1.26	0.67	0.32	6.9	1.13	<5	0.5	0.24
X788936		100.43	0.04	0.02	42.0	3.4	2940	2.13	1.11	0.76	0.34	7.8	1.00	<5	0.4	0.25
X788937		100.30	0.05	0.02	43.1	3.6	2730	1.10	1.24	0.66	0.32	8.2	1.29	<5	0.5	0.26
X788938		101.00	0.04	0.01	63.5	3.5	1880	0.88	1.32	0.70	0.41	9.0	1.21	<5	0.5	0.24
X788939		99.67	0.01	0.01	77.1	3.5	1610	0.51	1.19	0.76	0.37	10.3	1.26	<5	0.4	0.21
X788940		99.80	0.02	0.01	61.2	3.7	1740	0.54	1.32	0.84	0.35	9.7	1.24	<5	0.4	0.24
X788941		99.72	0.02	0.12	62.3	2.2	600	0.69	1.16	0.81	0.35	15.0	1.16	<5	0.4	0.24
X788942		99.90	0.04	0.08	94.7	2.5	460	0.89	1.14	0.66	0.38	15.9	0.94	<5	0.3	0.23
X788943		99.36	0.02	0.01	85.0	3.6	1220	0.55	1.02	0.67	0.41	12.1	1.11	<5	0.3	0.24
X788944		98.65	0.01	0.01	99.3	4.3	1240	1.22	1.12	0.71	0.38	11.5	1.04	<5	0.5	0.21
X788945		100.55	0.04	0.01	157.5	5.9	1110	0.96	0.81	0.57	0.43	12.0	1.16	<5	0.5	0.20
X788946		100.98	0.03	0.01	124.5	9.4	1320	0.97	1.19	0.62	0.37	11.0	1.16	<5	0.7	0.21
X788947		100.70	0.01	0.01	49.0	3.8	1740	0.76	1.34	0.75	0.37	9.6	1.07	<5	0.5	0.24
X788948		98.38	0.07	1.78	214	25.1	250	0.89	2.53	1.45	1.12	16.0	2.94	<5	2.5	0.50

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

Sample Description	Method / Analyte / Units / LOD	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5
X788911		0.8	0.01	<0.2	0.3	0.09	0.4	0.09	<1	168.0	<0.1	0.01	0.05	<0.01	0.15	<5
X788912		5.0	0.01	0.2	1.9	0.58	4.1	0.22	<1	582	<0.1	0.01	0.12	<0.01	<0.05	54
X788913		4.0	<0.01	<0.2	1.4	0.46	3.9	0.18	<1	721	<0.1	<0.01	0.05	<0.01	<0.05	34
X788914		4.3	0.01	<0.2	1.5	0.46	5.2	0.17	<1	717	0.2	0.01	0.09	<0.01	<0.05	46
X788915		4.9	0.01	<0.2	1.5	0.56	6.5	0.18	<1	710	0.1	0.01	0.06	0.01	<0.05	58
X788916		4.7	<0.01	0.2	1.5	0.49	8.2	0.18	<1	732	0.1	<0.01	0.10	<0.01	<0.05	48
X788917		4.5	0.03	1.9	3.1	0.84	13.0	0.41	<1	566	0.1	0.04	0.21	0.02	<0.05	46
X788918		3.0	0.06	0.6	4.1	0.98	0.6	0.73	<1	16.8	0.1	0.09	0.28	0.06	<0.05	151
X788919		3.4	0.07	0.4	4.7	1.06	0.8	1.20	<1	20.2	<0.1	0.17	0.24	0.09	<0.05	172
X788920		3.6	0.10	0.3	5.5	1.21	3.1	1.37	<1	36.7	0.1	0.22	0.18	0.11	<0.05	181
X788921		2.6	0.10	0.3	4.8	0.97	2.8	1.53	<1	36.2	0.1	0.17	0.17	0.07	<0.05	171
X788922		2.3	0.10	0.4	4.5	0.96	14.0	1.30	<1	33.2	0.1	0.21	0.16	0.10	<0.05	162
X788923		3.6	0.09	0.3	6.1	1.32	4.2	1.59	<1	51.4	0.1	0.20	0.41	0.10	0.21	159
X788924		3.4	0.09	0.2	6.0	1.31	4.1	1.45	<1	49.9	0.1	0.19	0.33	0.11	0.07	165
X788925		2.2	0.11	0.2	5.4	1.05	0.8	1.28	1	31.1	0.1	0.23	0.16	0.14	<0.05	170
X788926		2.2	0.13	0.2	5.4	1.09	1.6	1.55	<1	47.2	0.1	0.25	0.12	0.13	<0.05	171
X788927		2.2	0.11	0.2	6.0	1.20	2.1	1.76	<1	51.3	0.1	0.21	0.15	0.12	<0.05	178
X788928		1.6	0.13	0.2	5.7	1.11	2.2	1.77	<1	44.2	0.1	0.29	0.12	0.14	<0.05	180
X788929		1.9	0.11	0.2	5.4	0.99	2.4	1.60	<1	70.9	0.1	0.26	0.17	0.14	0.05	186
X788930		1.5	0.11	0.2	4.1	0.78	2.5	1.17	<1	72.5	0.1	0.20	0.14	0.11	<0.05	155
X788931		7.1	0.13	5.0	8.8	2.06	10.2	2.13	3	170.5	0.4	0.28	1.10	0.15	0.37	86
X788932		2.4	0.09	0.3	3.5	0.79	6.3	1.02	<1	78.7	0.1	0.14	0.85	0.08	0.10	148
X788933		1.8	0.11	0.7	4.5	0.83	2.2	1.30	<1	83.3	0.1	0.23	0.18	0.10	<0.05	183
X788934		1.0	0.11	0.4	3.5	0.67	2.1	1.00	<1	53.8	0.1	0.23	0.08	0.10	<0.05	186
X788935		1.5	0.11	0.3	3.7	0.71	1.7	1.03	<1	75.8	0.1	0.22	0.11	0.11	<0.05	223
X788936		1.1	0.10	0.2	3.1	0.57	2.9	0.90	<1	93.0	0.1	0.17	0.09	0.09	<0.05	195
X788937		1.2	0.09	0.2	3.1	0.65	2.3	1.21	<1	90.8	0.1	0.16	0.10	0.09	0.05	236
X788938		1.3	0.11	<0.2	3.3	0.62	3.2	0.93	<1	188.0	0.1	0.19	0.06	0.12	<0.05	241
X788939		1.4	0.10	<0.2	3.3	0.64	2.8	1.07	<1	231	0.1	0.17	0.07	0.11	<0.05	234
X788940		1.2	0.12	<0.2	3.4	0.68	2.2	1.14	<1	189.0	0.1	0.19	0.05	0.13	<0.05	251
X788941		0.7	0.10	<0.2	2.2	0.39	3.8	0.89	<1	170.0	0.1	0.17	<0.05	0.12	<0.05	242
X788942		0.8	0.08	<0.2	2.1	0.44	8.0	0.81	<1	274	0.1	0.15	<0.05	0.10	<0.05	229
X788943		1.4	0.08	<0.2	3.2	0.57	3.0	0.85	<1	320	0.1	0.15	0.10	0.10	<0.05	222
X788944		1.5	0.08	0.3	3.3	0.63	6.6	1.10	<1	291	0.1	0.16	0.15	0.09	0.07	215
X788945		2.6	0.08	0.6	3.6	0.86	9.1	1.00	<1	313	0.1	0.15	0.46	0.07	0.11	188
X788946		4.6	0.10	1.1	5.0	1.21	15.8	1.25	<1	203	0.2	0.18	1.23	0.10	0.36	207
X788947		1.3	0.10	<0.2	3.7	0.70	2.5	0.99	<1	184.0	0.1	0.19	0.07	0.11	<0.05	233
X788948		11.3	0.19	7.0	13.1	3.26	15.4	3.28	3	249	0.5	0.43	1.45	0.19	0.44	126

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

Sample Description	Method / Analyte / Units / LOD	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5
X788911		<1	0.4	0.05	<2	0.5	0.01	<0.005	<0.005	<0.001	0.06	0.2	0.01	0.02	<0.5	<0.5
X788912		<1	0.5	0.06	10	0.2	0.20	<0.005	0.009	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
X788913		<1	0.3	<0.03	4	0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X788914		<1	0.3	0.06	6	0.1	0.09	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.02	0.5	<0.5
X788915		<1	0.4	0.05	7	0.2	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X788916		<1	0.3	<0.03	6	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X788917		<1	1.2	0.14	10	0.1	0.23	<0.005	<0.005	<0.001	<0.05	<0.2	0.04	0.02	<0.5	<0.5
X788918		1	3.6	0.47	33	0.2	0.39	<0.005	<0.005	0.003	<0.05	0.2	0.05	0.03	<0.5	<0.5
X788919		1	4.9	0.59	22	0.3	0.08	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.03	<0.5	0.7
X788920		<1	6.5	0.64	18	0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.6
X788921		1	6.0	0.71	15	0.2	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.5
X788922		1	6.0	0.59	16	0.2	0.06	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.11	<0.5	0.6
X788923		1	6.5	0.80	17	0.2	0.18	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
X788924		1	6.5	0.65	15	0.2	0.09	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
X788925		1	7.0	0.73	15	1.2	0.02	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.04	<0.5	0.6
X788926		<1	7.9	0.92	16	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.6
X788927		<1	8.5	0.83	18	0.5	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X788928		1	8.8	1.02	17	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
X788929		1	8.2	0.81	16	0.1	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.8
X788930		<1	6.6	0.63	12	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.8
X788931		3	8.9	0.95	65	14.9	0.95	0.137	0.104	0.021	2.60	22.3	4.75	0.16	3.7	2.6
X788932		<1	5.2	0.55	15	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X788933		1	6.6	0.72	12	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.6
X788934		1	6.4	0.80	10	0.5	<0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.6
X788935		<1	6.7	0.84	11	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X788936		1	5.9	0.77	10	0.2	0.01	0.008	0.006	<0.001	0.24	<0.2	<0.01	0.05	<0.5	<0.5
X788937		<1	6.4	0.78	11	0.1	<0.01	<0.005	<0.005	<0.001	0.23	0.2	<0.01	0.11	<0.5	0.5
X788938		1	6.2	0.79	10	<0.1	<0.01	<0.005	<0.005	<0.001	0.20	<0.2	<0.01	0.03	<0.5	<0.5
X788939		1	6.1	0.73	10	<0.1	<0.01	<0.005	<0.005	<0.001	0.17	0.2	<0.01	0.04	<0.5	<0.5
X788940		1	6.7	0.74	10	0.1	<0.01	<0.005	<0.005	<0.001	0.14	<0.2	<0.01	0.02	<0.5	0.5
X788941		<1	6.4	0.79	7	0.1	0.01	<0.005	<0.005	0.001	0.14	0.5	0.04	0.07	<0.5	<0.5
X788942		<1	5.8	0.66	6	0.1	0.01	<0.005	<0.005	<0.001	0.13	0.3	0.03	0.04	<0.5	<0.5
X788943		<1	5.2	0.61	9	0.1	<0.01	<0.005	<0.005	<0.001	0.14	<0.2	<0.01	0.02	<0.5	0.5
X788944		1	5.5	0.68	13	0.1	0.01	<0.005	<0.005	<0.001	0.13	<0.2	<0.01	0.03	<0.5	<0.5
X788945		<1	5.1	0.65	16	0.1	<0.01	<0.005	<0.005	<0.001	0.11	<0.2	<0.01	0.04	<0.5	<0.5
X788946		1	5.8	0.60	22	0.1	<0.01	<0.005	<0.005	<0.001	0.09	0.2	0.01	0.06	<0.5	<0.5
X788947		1	6.6	0.84	11	<0.1	<0.01	<0.005	<0.005	<0.001	0.09	<0.2	<0.01	<0.02	<0.5	0.5
X788948		3	12.6	1.42	95	4.4	0.86	0.010	0.066	0.006	0.43	4.6	0.67	0.08	2.1	1.0

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 30-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009491

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	Cu-OG62 Cu ppm 10	Ni-OG62 Ni ppm 10	PGM-ICP23 Au ppb 1	PGM-ICP23 Pt ppb 5	PGM-ICP23 Pd ppb 1	Se-MS46 Se ppm 0.003
X788911		1	1	10	<1	1	<2	<1	19			<1	<5	<1	<0.003
X788912		17	199	20	<1	38	<2	5	56			2	<5	<1	0.093
X788913		18	68	20	<1	41	5	3	50			1	<5	2	0.020
X788914		20	223	20	<1	40	28	3	80			5	<5	6	0.070
X788915		20	68	20	<1	43	<2	4	53			11	<5	4	0.023
X788916		16	18	10	<1	31	2	3	42			<1	<5	2	0.013
X788917		29	39	10	<1	111	4	11	55			7	32	36	0.035
X788918		70	40	10	1	322	<2	47	73			7	20	54	0.148
X788919		67	12	10	<1	319	<2	49	62			1	12	23	0.021
X788920		65	14	10	<1	297	2	54	62			<1	12	24	0.009
X788921		67	16	10	<1	345	4	51	59			<1	14	22	0.019
X788922		71	37	20	<1	411	<2	45	79			2	21	38	0.021
X788923		71	26	10	<1	407	<2	45	60			<1	<5	1	0.038
X788924		72	23	10	<1	440	<2	45	59			<1	6	5	0.033
X788925		78	14	<10	<1	500	<2	43	62			1	<5	5	0.019
X788926		95	10	10	<1	595	2	43	75			<1	5	7	0.010
X788927		101	9	10	<1	676	4	44	73			<1	6	4	0.013
X788928		101	10	10	<1	676	<2	42	81			<1	6	3	0.015
X788929		99	10	10	<1	637	5	40	81			<1	7	3	0.011
X788930		106	16	10	<1	766	3	34	98			<1	<5	1	0.023
X788931		944	>10000	10	4	>10000	22	8	137	16150	45900	245	789	3380	17.50
X788932		94	21	10	<1	667	2	26	89			<1	<5	3	0.016
X788933		102	23	10	<1	621	<2	36	87			<1	5	6	0.021
X788934		111	18	10	<1	654	3	36	78			10	5	4	0.020
X788935		95	19	10	<1	637	<2	42	87			2	14	9	0.020
X788936		91	16	10	<1	588	3	36	78			<1	12	6	0.023
X788937		83	24	10	<1	484	<2	44	101			<1	5	5	0.018
X788938		65	16	20	<1	323	<2	46	75			<1	5	10	0.017
X788939		63	15	10	<1	291	<2	44	72			<1	6	8	0.020
X788940		67	20	10	<1	322	<2	47	76			<1	8	8	0.011
X788941		52	206	10	<1	190	<2	41	57			<1	5	5	0.364
X788942		45	156	10	<1	170	<2	41	48			3	7	4	0.255
X788943		52	11	10	<1	248	<2	37	59			<1	5	2	0.014
X788944		55	13	10	<1	264	<2	37	62			<1	5	5	0.020
X788945		49	12	10	<1	238	<2	33	56			<1	5	5	0.013
X788946		51	20	10	<1	265	3	37	58			1	5	4	0.024
X788947		64	25	10	<1	342	<2	46	73			2	9	12	0.031
X788948		114	4410	20	5	4280	24	12	104			71	298	593	3.92

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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-32	CRU-QC	LOG-21	LOG-23
PUL-35	PUL-QC	SPL-21	WEI-21

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

Applies to Method:			
C-IR07	Cu-OG62	ME-4ACD81	ME-ICP06
ME-MS42	ME-MS81	ME-OG62	Ni-OG62
OA-GRA05	PGM-ICP23	Se-MS46	S-IR08
TOT-ICP06			