ALS Canada Ltd.

2103 Dollarton Hwy
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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: 29-JAN-2019
Account: MZI

CERTIFICATE TB19009493

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
X788949		1.48	17.05	0.05	0.10	28.3	21.3	0.02	0.01	<0.002	<0.01	0.05	0.01	0.02	0.01	32.5
X788950		0.08	85.6	5.23	3.15	0.05	0.44	0.07	0.75	0.015	0.31	0.19	0.11	<0.01	0.07	5.29
X788951		2.94	52.3	8.16	11.25	10.05	17.00	0.91	0.11	0.224	0.26	0.21	<0.01	0.02	0.01	-0.07
X788952		2.93	52.7	7.95	11.35	10.15	17.30	0.90	0.11	0.231	0.27	0.21	0.01	0.02	0.01	0.08
X788953		2.75	52.6	8.09	10.80	9.97	16.55	0.98	0.17	0.222	0.26	0.21	<0.01	0.02	0.01	0.44
X788954		2.91	51.6	7.51	11.10	9.73	17.05	0.93	0.18	0.245	0.27	0.20	0.02	0.02	0.01	1.16
X788955		3.14	52.2	6.45	12.05	9.04	18.65	0.78	0.12	0.360	0.28	0.22	<0.01	0.02	<0.01	0.43
X788956		3.05	52.5	5.71	12.55	8.87	19.70	0.60	0.09	0.423	0.28	0.23	0.01	0.01	<0.01	-0.08
X788957		3.00	50.9	5.47	12.35	8.94	19.75	0.59	0.14	0.447	0.28	0.22	<0.01	0.01	<0.01	0.37
X788958		2.91	50.3	4.89	12.90	8.78	20.4	0.47	0.08	0.455	0.29	0.23	<0.01	0.01	<0.01	0.38
X788959		2.94	49.1	5.45	13.80	8.19	21.1	0.55	0.09	0.449	0.24	0.22	<0.01	0.01	<0.01	0.88
X788960		2.96	48.2	4.97	14.10	7.78	21.6	0.42	0.09	0.444	0.23	0.22	0.01	0.01	<0.01	1.61
X788961		3.04	48.4	5.41	13.95	7.94	21.7	0.48	0.09	0.432	0.21	0.22	<0.01	0.01	<0.01	1.23
X788962		2.94	49.1	5.08	14.05	8.08	21.4	0.53	0.13	0.431	0.21	0.23	<0.01	<0.01	<0.01	0.60
X788963		2.98	49.6	4.58	14.15	8.61	22.2	0.44	0.06	0.442	0.24	0.23	<0.01	0.01	<0.01	0.59
X788964		3.19	49.7	5.42	13.10	8.69	20.6	0.53	0.19	0.406	0.24	0.22	<0.01	0.01	<0.01	0.50
X788965		2.82	53.5	8.82	8.58	11.25	13.00	1.97	0.32	0.296	0.28	0.17	0.01	0.03	0.01	1.30
X788966		2.97	51.1	6.47	11.80	9.13	18.65	0.71	0.17	0.337	0.23	0.22	<0.01	0.01	<0.01	0.94
X788967		3.07	51.5	6.01	12.20	9.17	19.45	0.59	0.11	0.364	0.24	0.22	<0.01	0.01	<0.01	0.19
X788968		2.90	52.7	7.16	11.35	8.82	18.05	1.03	0.17	0.336	0.23	0.21	0.01	0.02	0.01	0.23
X788969		0.08	46.7	12.60	20.5	6.22	6.70	2.14	0.64	0.034	1.25	0.19	0.15	0.03	0.02	1.19
X788970		3.03	52.0	6.33	12.20	8.98	19.50	0.68	0.10	0.369	0.24	0.22	<0.01	0.01	<0.01	0.20
X788971		3.01	50.9	6.23	12.05	8.90	19.25	0.61	0.09	0.361	0.24	0.22	0.01	0.01	<0.01	-0.12
X788972		2.67	50.0	6.41	11.45	9.03	18.70	0.63	0.13	0.330	0.24	0.21	<0.01	0.01	<0.01	2.65
X788973		2.63	51.6	8.81	10.65	10.65	17.40	0.85	0.23	0.228	0.24	0.20	<0.01	0.02	0.01	0.93
X788974		2.85	52.0	10.40	9.59	10.50	15.50	1.29	0.21	0.209	0.22	0.18	0.01	0.03	0.01	0.74
X788975		2.95	51.5	10.40	9.70	10.80	15.90	1.07	0.27	0.209	0.21	0.19	<0.01	0.03	0.01	1.07
X788976		2.42	50.4	7.84	10.40	10.25	17.35	0.82	0.21	0.223	0.23	0.20	<0.01	0.02	0.01	2.34
X788977		2.56	51.4	8.12	10.65	10.45	17.60	0.73	0.17	0.216	0.23	0.20	<0.01	0.02	<0.01	0.58
X788978		1.81	51.9	9.97	10.05	10.65	16.60	0.90	0.16	0.198	0.21	0.19	<0.01	0.03	0.01	0.27
X788979		1.74	51.3	10.70	9.60	10.65	15.90	0.97	0.16	0.189	0.20	0.18	<0.01	0.03	0.01	0.31
X788980		1.36	49.6	9.79	9.49	9.89	15.90	1.07	0.33	0.196	0.20	0.19	<0.01	0.03	0.01	2.94
X788981		2.30	49.5	7.62	10.30	9.22	17.25	0.99	0.22	0.231	0.22	0.20	0.01	0.02	0.01	3.41
X788982		2.13	49.6	7.70	10.35	9.55	17.10	1.24	0.16	0.270	0.22	0.19	0.01	0.02	<0.01	3.57
X788983		2.12	47.3	5.68	11.00	9.53	18.40	0.77	0.08	0.312	0.24	0.18	<0.01	0.01	<0.01	6.19
X788984		2.17	48.1	5.52	11.40	9.24	19.00	0.52	0.27	0.343	0.24	0.19	<0.01	0.01	0.01	4.82
X788985		2.21	48.4	5.17	11.80	8.87	19.25	0.30	0.15	0.401	0.23	0.22	0.01	<0.01	<0.01	4.11
X788986		2.17	49.8	5.28	11.70	8.53	19.85	0.40	0.06	0.457	0.24	0.21	<0.01	<0.01	<0.01	3.66
X788987		1.72	47.4	5.04	11.75	8.37	19.40	0.46	0.07	0.430	0.22	0.19	<0.01	<0.01	<0.01	4.71
X788988		1.34	48.9	6.38	11.45	7.21	17.50	1.59	0.05	0.344	0.22	0.16	0.02	0.01	<0.01	5.49

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Finalized Date: 29-JAN-2019
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CERTIFICATE OF ANALYSIS TB19009493

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
X788949		99.42	8.65	0.01	113.5	0.7	10	0.20	0.08	<0.03	<0.03	0.2	<0.05	<5	<0.2	0.01
X788950		101.28	3.91	0.02	612	191.0	100	1.10	1.44	1.15	0.49	6.8	1.67	<5	1.8	0.33
X788951		100.43	0.01	0.01	50.7	3.7	1710	0.46	1.19	0.74	0.38	9.1	1.29	<5	0.4	0.27
X788952		101.29	0.02	0.01	45.9	3.8	1710	0.52	1.27	0.70	0.36	9.0	1.34	<5	0.4	0.21
X788953		100.32	0.03	0.01	58.2	4.2	1660	0.70	1.19	0.68	0.40	9.2	1.10	<5	0.5	0.22
X788954		100.03	0.02	0.02	59.0	3.9	1860	1.59	1.09	0.73	0.38	8.9	1.27	<5	0.4	0.24
X788955		100.60	0.02	0.02	47.7	4.0	2780	0.67	1.38	0.81	0.36	8.7	1.36	<5	0.4	0.23
X788956		100.89	0.01	0.02	34.8	3.7	3160	0.32	1.10	0.71	0.26	7.6	1.23	<5	0.4	0.23
X788957		99.47	0.03	0.02	43.1	4.2	3080	0.63	1.35	0.85	0.45	7.7	1.27	<5	0.5	0.26
X788958		99.19	0.03	0.02	25.0	3.9	3070	0.77	1.37	0.82	0.33	7.2	1.08	<5	0.4	0.21
X788959		100.08	0.04	0.02	30.9	3.4	3040	1.17	1.05	0.62	0.35	6.9	1.32	<5	0.4	0.15
X788960		99.68	0.03	0.05	25.4	2.9	3010	1.28	1.32	0.46	0.28	6.7	1.16	<5	0.3	0.20
X788961		100.07	0.04	0.04	30.0	2.7	2930	1.00	1.00	0.57	0.27	6.6	0.99	<5	0.3	0.21
X788962		99.84	0.03	0.01	34.1	3.2	3140	0.80	1.04	0.63	0.30	6.9	1.05	<5	0.4	0.23
X788963		101.15	0.03	0.01	22.2	3.4	3030	0.49	1.25	0.47	0.28	6.5	1.06	<5	0.3	0.29
X788964		99.61	0.05	0.01	38.9	3.8	2800	1.36	1.19	0.79	0.31	6.9	0.89	<5	0.3	0.22
X788965		99.54	0.09	0.01	131.5	8.9	2020	0.75	1.23	1.03	0.55	10.8	1.51	<5	0.6	0.29
X788966		99.77	0.05	0.02	44.8	3.8	2320	1.12	1.15	0.59	0.35	7.6	0.84	<5	0.4	0.24
X788967		100.05	0.04	0.01	32.9	3.4	2520	0.54	1.04	0.67	0.38	7.7	1.37	<5	0.5	0.19
X788968		100.33	0.02	0.01	58.1	4.0	2330	0.55	0.87	0.64	0.27	8.6	0.79	<5	0.3	0.25
X788969		98.36	0.07	1.73	216	25.9	230	0.97	2.30	1.43	0.99	15.9	2.67	<5	2.3	0.48
X788970		100.83	0.04	0.01	38.6	3.5	2550	0.48	0.98	0.78	0.35	7.9	1.08	<5	0.5	0.20
X788971		98.75	0.03	0.02	30.1	3.1	2510	0.32	1.11	0.59	0.28	7.3	1.03	<5	0.3	0.22
X788972		99.79	0.07	0.02	30.3	4.3	2290	1.02	1.08	0.75	0.31	7.8	0.79	<5	0.4	0.21
X788973		101.82	0.03	0.02	70.0	3.6	1650	0.99	1.15	0.60	0.36	9.4	1.07	<5	0.5	0.23
X788974		100.89	0.02	0.01	73.1	4.2	1490	0.69	1.13	0.62	0.44	10.5	1.33	<5	0.4	0.24
X788975		101.36	0.02	0.02	76.4	3.4	1530	1.18	1.01	0.61	0.38	10.2	0.85	<5	0.4	0.20
X788976		100.29	0.05	0.01	47.1	3.5	1620	0.91	1.12	0.68	0.34	8.8	1.10	<5	0.4	0.23
X788977		100.37	0.02	0.01	47.0	3.1	1590	0.78	1.39	0.65	0.37	8.4	1.13	<5	0.2	0.22
X788978		101.14	0.01	0.01	49.1	3.1	1450	0.91	0.99	0.55	0.40	9.4	1.19	<5	0.4	0.19
X788979		100.20	0.03	0.01	52.7	2.8	1400	0.67	0.97	0.71	0.39	9.7	0.94	<5	0.4	0.21
X788980		99.64	0.04	0.01	90.4	3.0	1450	1.72	1.05	0.69	0.37	9.3	1.17	<5	0.2	0.20
X788981		99.20	0.13	0.02	50.4	3.3	1700	1.59	1.04	0.70	0.35	8.5	1.12	<5	0.5	0.20
X788982		99.98	0.17	0.02	32.0	4.2	1990	0.55	1.15	0.71	0.36	8.4	0.81	<5	0.4	0.20
X788983		99.69	0.87	0.02	17.7	3.2	2320	0.99	1.07	0.61	0.35	7.3	1.13	<5	0.3	0.25
X788984		99.66	0.46	0.03	56.6	3.4	2570	3.78	0.90	0.69	0.31	7.5	1.13	<5	0.4	0.21
X788985		98.91	0.18	0.01	15.7	3.0	2890	1.59	1.07	0.52	0.27	6.9	0.99	<5	0.3	0.21
X788986		100.19	0.09	0.01	8.7	3.3	3450	0.88	1.10	0.69	0.22	7.6	1.13	<5	0.5	0.23
X788987		98.04	0.40	0.02	15.5	4.2	3270	1.15	0.85	0.54	0.34	7.6	1.00	<5	0.5	0.20
X788988		99.32	0.74	0.08	16.7	11.7	2660	1.13	0.91	0.78	0.36	8.5	1.16	<5	1.1	0.19

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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
X788949		0.4	<0.01	<0.2	0.4	0.09	0.6	0.04	<1	207	0.1	<0.01	0.67	0.01	6.38	5
X788950		138.5	0.17	4.8	50.1	18.10	21.9	3.12	3	55.0	0.4	0.23	5.94	0.13	7.37	85
X788951		1.3	0.12	<0.2	3.5	0.70	1.9	1.24	<1	196.0	0.1	0.19	0.06	0.09	<0.05	222
X788952		1.2	0.11	<0.2	3.5	0.64	1.9	1.14	<1	182.0	0.1	0.20	0.09	0.11	<0.05	322
X788953		1.5	0.11	0.2	3.6	0.72	4.0	1.12	<1	176.5	0.1	0.20	0.14	0.09	0.06	207
X788954		1.4	0.11	<0.2	3.5	0.65	5.5	1.25	<1	163.0	0.1	0.18	0.11	0.12	0.05	220
X788955		1.3	0.09	0.2	3.6	0.71	2.9	1.10	<1	133.5	0.1	0.18	0.14	0.12	0.07	223
X788956		1.1	0.10	<0.2	3.6	0.62	1.6	1.09	<1	104.5	0.1	0.17	0.11	0.12	<0.05	228
X788957		1.8	0.12	0.2	4.1	0.66	3.4	1.12	1	95.5	0.1	0.18	0.48	0.12	0.06	227
X788958		1.4	0.11	<0.2	4.5	0.61	2.0	1.09	<1	75.4	0.1	0.21	0.06	0.14	<0.05	233
X788959		1.4	0.12	<0.2	3.3	0.60	2.0	0.84	<1	101.0	0.1	0.20	0.06	0.10	<0.05	203
X788960		1.0	0.09	<0.2	3.4	0.56	2.3	0.66	<1	72.7	0.1	0.16	0.07	0.10	<0.05	194
X788961		1.2	0.10	<0.2	3.0	0.46	2.1	0.67	<1	97.6	0.1	0.13	0.09	0.12	<0.05	184
X788962		1.1	0.09	<0.2	3.0	0.53	2.3	0.79	<1	102.0	0.1	0.19	0.15	0.13	0.17	190
X788963		0.9	0.08	<0.2	3.1	0.57	1.4	1.39	<1	75.3	0.1	0.22	0.09	0.08	<0.05	204
X788964		1.3	0.11	0.2	3.4	0.65	7.4	0.86	<1	99.9	0.1	0.15	1.07	0.12	1.20	197
X788965		4.1	0.11	0.7	5.6	1.31	8.3	1.79	1	253	0.2	0.25	0.71	0.12	0.30	213
X788966		1.6	0.10	0.2	3.6	0.68	4.5	1.08	<1	132.0	0.1	0.18	0.17	0.09	0.05	207
X788967		1.2	0.10	<0.2	3.3	0.65	2.4	1.00	<1	122.0	0.1	0.16	0.11	0.15	<0.05	219
X788968		1.8	0.09	<0.2	3.1	0.75	3.5	1.03	<1	177.0	0.1	0.20	0.25	0.09	0.05	200
X788969		12.1	0.19	6.9	14.2	3.25	15.6	3.09	4	248	0.6	0.44	1.48	0.22	0.50	120
X788970		1.3	0.11	<0.2	3.3	0.59	2.4	0.84	<1	134.5	0.1	0.18	0.09	0.10	<0.05	214
X788971		1.1	0.09	<0.2	2.9	0.51	1.5	0.88	<1	129.0	<0.1	0.11	0.07	0.10	<0.05	209
X788972		1.9	0.11	<0.2	3.4	0.64	3.5	1.13	<1	94.3	0.1	0.20	0.15	0.11	<0.05	212
X788973		1.1	0.10	<0.2	3.5	0.57	6.6	0.90	<1	194.5	0.1	0.18	0.05	0.14	<0.05	218
X788974		1.9	0.08	0.2	3.5	0.65	5.3	1.15	<1	263	0.1	0.20	0.07	0.10	<0.05	208
X788975		1.4	0.09	<0.2	3.4	0.54	7.4	0.81	<1	251	0.1	0.16	0.07	0.11	<0.05	206
X788976		1.3	0.09	<0.2	3.3	0.57	6.7	0.71	<1	149.0	0.1	0.20	0.05	0.09	<0.05	221
X788977		1.2	0.09	<0.2	3.0	0.54	4.4	0.95	<1	173.0	0.1	0.19	0.06	0.10	<0.05	220
X788978		1.0	0.12	<0.2	2.7	0.49	3.9	0.65	<1	236	0.1	0.18	0.07	0.13	<0.05	215
X788979		1.0	0.05	<0.2	2.4	0.49	3.8	0.94	<1	262	0.1	0.15	0.05	0.09	<0.05	209
X788980		1.2	0.07	<0.2	2.3	0.48	11.5	0.89	<1	242	<0.1	0.11	0.05	0.08	<0.05	207
X788981		1.2	0.13	<0.2	2.8	0.61	7.0	0.74	<1	153.5	<0.1	0.20	0.06	0.08	<0.05	192
X788982		1.5	0.08	0.2	3.5	0.75	4.4	0.97	<1	154.5	0.1	0.21	0.20	0.13	<0.05	191
X788983		0.8	0.08	<0.2	2.9	0.55	2.5	1.18	1	97.1	<0.1	0.22	0.07	0.11	<0.05	209
X788984		1.2	0.11	<0.2	3.0	0.57	10.9	1.05	<1	66.2	0.1	0.19	0.06	0.08	<0.05	212
X788985		1.0	0.11	<0.2	3.0	0.44	3.3	0.90	<1	37.5	<0.1	0.13	0.06	0.10	<0.05	209
X788986		1.1	0.11	0.2	3.2	0.54	1.4	1.00	<1	35.1	0.1	0.18	0.10	0.10	<0.05	210
X788987		1.8	0.14	0.3	3.4	0.63	1.9	0.82	<1	56.5	0.2	0.17	0.53	0.09	0.07	194
X788988		5.9	0.10	1.3	5.5	1.33	1.5	1.68	<1	86.1	0.2	0.15	1.93	0.11	0.87	149

***** 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: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788949		1	0.4	0.04	<2	0.6	0.01	<0.005	<0.005	<0.001	0.11	<0.2	<0.01	0.02	<0.5	<0.5
X788950		3	10.4	1.14	68	5.9	14.20	0.057	0.097	0.003	0.43	3.0	0.38	0.03	0.7	<0.5
X788951		<1	6.3	0.64	10	0.2	0.01	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	<0.02	<0.5	0.7
X788952		<1	6.3	0.73	10	0.1	0.01	<0.005	<0.005	<0.001	0.07	<0.2	0.01	<0.02	<0.5	0.6
X788953		1	6.1	0.72	12	<0.1	0.01	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	0.02	<0.5	0.7
X788954		<1	6.5	0.75	13	<0.1	<0.01	<0.005	<0.005	<0.001	0.07	0.2	<0.01	0.04	<0.5	0.6
X788955		1	6.6	0.78	13	<0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.02	<0.5	0.7
X788956		<1	6.3	0.70	11	0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	<0.02	<0.5	0.6
X788957		<1	6.5	0.76	12	0.2	0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.02	<0.5	0.7
X788958		<1	6.7	1.03	11	0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.02	<0.5	0.9
X788959		<1	5.6	0.72	9	0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.03	<0.5	0.5
X788960		<1	5.2	0.79	8	0.1	0.01	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	0.06	<0.5	0.5
X788961		<1	4.9	0.74	8	0.2	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.02	<0.5	0.6
X788962		<1	5.4	0.69	9	0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	<0.02	<0.5	0.7
X788963		<1	5.9	0.67	9	<0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	<0.02	<0.5	0.9
X788964		<1	5.7	0.57	9	<0.1	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.04	<0.5	1.0
X788965		1	7.9	0.77	19	0.1	0.02	<0.005	<0.005	<0.001	0.06	<0.2	0.01	0.05	<0.5	0.6
X788966		<1	5.5	0.62	11	<0.1	<0.01	<0.005	<0.005	<0.001	0.06	0.2	<0.01	0.04	<0.5	0.7
X788967		<1	5.7	0.81	9	0.1	<0.01	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.02	<0.5	0.8
X788968		<1	5.3	0.63	9	0.1	<0.01	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.02	<0.5	0.7
X788969		3	13.0	1.18	94	3.7	0.94	0.009	0.063	0.006	0.39	4.8	0.60	0.09	1.7	1.2
X788970		<1	5.5	0.57	9	0.2	<0.01	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	<0.02	<0.5	0.8
X788971		<1	5.3	0.66	8	0.7	0.03	<0.005	<0.005	<0.001	0.08	<0.2	0.03	0.02	<0.5	0.9
X788972		1	5.7	0.84	9	0.7	0.01	<0.005	<0.005	<0.001	0.05	0.2	0.01	0.06	<0.5	0.9
X788973		<1	5.8	0.54	9	0.4	0.01	0.007	<0.005	<0.001	<0.05	0.2	0.01	0.03	<0.5	0.6
X788974		<1	5.3	0.48	11	0.5	0.01	0.007	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
X788975		<1	5.3	0.53	8	0.1	<0.01	0.006	<0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	0.6
X788976		2	5.6	0.79	8	0.4	0.01	0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X788977		<1	5.6	0.68	8	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
X788978		<1	4.9	0.44	7	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
X788979		1	4.7	0.60	6	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
X788980		<1	4.9	0.64	7	0.5	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.7
X788981		<1	5.3	0.71	8	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.7
X788982		1	5.5	0.85	9	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X788983		<1	5.9	0.85	9	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.5
X788984		<1	6.0	0.65	10	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	0.6
X788985		<1	5.5	0.77	9	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X788986		<1	5.9	0.59	11	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X788987		<1	5.4	0.56	13	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X788988		<1	5.5	0.65	38	0.4	0.03	<0.005	0.006	<0.001	0.06	0.2	0.02	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: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788949		<1	2	10	<1	3	2	<1	17			<1	<5	<1	<0.003
X788950		64	90	10	6	89	56	6	47			4530	1300	2040	2.94
X788951		65	31	10	1	368	<2	48	78			<1	7	7	0.028
X788952		64	28	10	<1	383	<2	48	79			<1	6	4	0.029
X788953		63	26	10	<1	380	<2	46	79			<1	<5	9	0.026
X788954		65	26	20	<1	406	<2	47	77			2	5	14	0.025
X788955		71	26	10	<1	481	<2	46	82			5	7	16	0.025
X788956		71	29	10	<1	494	<2	46	82			5	9	16	0.027
X788957		71	26	10	<1	506	<2	47	83			3	11	21	0.028
X788958		78	21	10	<1	558	<2	50	88			1	17	19	0.021
X788959		91	17	10	<1	701	<2	43	92			1	21	22	0.017
X788960		100	16	10	<1	744	<2	42	92			1	31	24	0.047
X788961		98	12	10	<1	736	<2	41	92			1	13	21	0.026
X788962		92	13	<10	1	707	<2	41	89			<1	18	21	0.010
X788963		96	16	<10	<1	715	<2	46	93			<1	16	16	0.013
X788964		87	14	10	<1	612	<2	44	87			<1	13	11	0.014
X788965		50	23	10	<1	315	<2	47	60			1	103	63	0.019
X788966		74	18	10	<1	455	2	46	82			<1	10	8	0.017
X788967		75	22	10	<1	478	<2	48	82			<1	13	8	0.019
X788968		70	19	10	<1	451	<2	45	81			<1	10	7	0.019
X788969		119	4760	20	5	4640	23	13	111			81	312	619	3.83
X788970		79	29	10	<1	514	<2	49	87			1	13	7	0.019
X788971		79	25	10	<1	514	<2	49	86			1	13	9	0.023
X788972		78	24	10	<1	485	<2	48	81			<1	12	9	0.021
X788973		67	21	10	<1	377	<2	47	68			<1	8	8	0.019
X788974		58	20	10	<1	333	<2	42	64			1	5	6	0.020
X788975		59	18	10	1	325	<2	43	63			<1	8	4	0.014
X788976		66	15	10	<1	361	<2	48	68			<1	7	8	0.010
X788977		65	10	10	1	367	<2	48	70			<1	10	11	0.010
X788978		61	8	10	<1	349	<2	44	68			<1	6	10	0.007
X788979		59	7	10	1	331	<2	42	64			<1	5	9	0.006
X788980		59	7	20	<1	336	<2	42	85			4	9	10	0.006
X788981		70	11	10	<1	426	2	45	88			<1	17	28	0.018
X788982		70	10	10	<1	479	<2	45	71			1	7	8	0.013
X788983		73	10	10	<1	505	<2	48	74			<1	7	11	0.010
X788984		75	13	10	1	525	5	45	74			<1	9	9	0.008
X788985		77	12	10	<1	542	3	45	75			<1	16	12	0.005
X788986		73	7	10	<1	500	<2	44	74			<1	14	10	0.005
X788987		80	12	10	<1	595	<2	43	79			<1	13	10	0.010
X788988		74	20	10	<1	569	2	32	67			<1	15	9	0.038

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

Finalized Date: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788989		2.40	16.15	0.07	0.13	28.1	21.7	0.01	0.02	<0.002	<0.01	0.04	0.01	0.02	0.01	33.2
X788990		1.64	46.3	3.93	12.60	8.41	20.6	0.15	0.05	0.399	0.21	0.21	<0.01	<0.01	<0.01	6.48
X788991		1.67	49.6	4.42	13.25	8.46	21.6	0.34	0.12	0.426	0.23	0.22	0.01	0.01	<0.01	2.54
X788992		2.43	49.4	4.29	13.55	7.95	22.2	0.31	0.07	0.421	0.23	0.23	<0.01	<0.01	<0.01	1.94
X788993		2.16	48.6	3.90	13.60	8.17	22.2	0.31	0.07	0.423	0.23	0.23	<0.01	<0.01	<0.01	1.40
X788994		1.83	49.9	5.35	12.20	8.59	19.95	0.68	0.18	0.404	0.24	0.22	<0.01	0.01	0.01	1.53
X788995		1.79	48.7	4.06	14.00	8.06	21.6	0.31	0.13	0.542	0.27	0.24	0.01	0.01	<0.01	2.26
X788996		2.07	50.4	4.50	12.95	9.36	21.0	0.37	0.07	0.396	0.26	0.23	0.01	0.01	<0.01	0.51
X788997		1.93	51.5	5.08	12.40	9.08	20.2	0.61	0.16	0.375	0.25	0.22	0.01	0.01	<0.01	0.87
X788998		2.76	51.0	4.59	13.00	9.56	21.1	0.39	0.05	0.392	0.26	0.23	0.01	0.01	<0.01	-0.05
X788999		2.95	51.8	4.72	12.90	9.81	21.0	0.40	0.04	0.398	0.27	0.23	0.01	0.01	<0.01	-0.29
X789000		2.72	51.6	4.64	12.95	9.75	21.0	0.40	0.05	0.397	0.27	0.23	<0.01	0.01	<0.01	-0.25
X789001		2.89	51.1	4.65	12.80	9.66	20.9	0.40	0.05	0.393	0.26	0.23	0.01	0.01	<0.01	-0.24
X789002		2.88	51.3	4.61	12.65	9.71	20.7	0.41	0.07	0.395	0.27	0.23	0.01	0.01	<0.01	-0.07
X789003		2.91	49.9	4.52	12.40	9.45	20.4	0.39	0.06	0.385	0.26	0.22	<0.01	0.01	<0.01	0.02
X789004		2.78	50.9	4.62	12.70	9.60	20.8	0.40	0.05	0.394	0.26	0.23	0.01	0.01	<0.01	-0.20
X789005		2.80	51.4	5.04	12.35	9.49	20.2	0.54	0.09	0.381	0.26	0.23	0.01	0.01	<0.01	-0.07
X789006		2.67	51.8	4.77	12.70	9.72	20.7	0.46	0.10	0.393	0.27	0.23	<0.01	0.01	<0.01	-0.01
X789007		2.88	51.5	4.77	12.50	9.46	20.4	0.49	0.13	0.390	0.26	0.23	<0.01	0.01	<0.01	0.45
X789008		2.88	51.1	4.72	12.55	9.66	20.7	0.44	0.07	0.395	0.26	0.23	<0.01	0.01	<0.01	-0.01
X789009		0.08	33.8	10.05	26.1	4.97	6.77	1.58	0.48	0.050	0.87	0.14	0.11	0.02	0.01	7.11
X789010		2.78	51.1	4.54	12.65	9.65	20.8	0.40	0.06	0.400	0.26	0.23	0.01	0.01	<0.01	-0.24
X789011		2.81	51.5	4.75	12.65	9.68	20.8	0.44	0.06	0.395	0.26	0.23	<0.01	0.01	<0.01	-0.26
X789012		2.68	51.2	5.21	12.35	9.44	20.3	0.58	0.13	0.384	0.25	0.23	0.01	0.01	<0.01	0.53
X789013		2.84	50.8	4.60	12.75	9.60	20.7	0.41	0.07	0.398	0.25	0.23	<0.01	0.01	<0.01	-0.17
X789014		2.92	51.3	4.72	12.65	9.66	21.0	0.42	0.07	0.401	0.25	0.23	<0.01	0.01	<0.01	0.20
X789015		2.46	50.4	4.65	12.50	9.61	20.8	0.39	0.07	0.396	0.25	0.23	<0.01	0.01	<0.01	0.46
X789016		2.59	51.1	4.57	12.70	9.67	21.1	0.39	0.06	0.404	0.25	0.23	<0.01	0.01	<0.01	-0.19
X789017		2.49	51.0	5.17	11.90	9.48	19.70	0.63	0.12	0.379	0.24	0.21	<0.01	0.01	<0.01	1.91
X789018		2.60	51.2	4.84	12.75	9.59	21.1	0.42	0.07	0.407	0.24	0.22	<0.01	0.01	<0.01	0.32
X789019		2.57	50.3	4.14	12.75	9.46	21.2	0.36	0.05	0.410	0.25	0.23	<0.01	0.01	<0.01	0.06
X789020		2.53	50.8	4.25	12.85	9.73	21.4	0.36	0.05	0.413	0.25	0.23	<0.01	0.01	<0.01	-0.06
X789021		2.58	50.5	4.25	12.75	9.55	21.3	0.38	0.06	0.410	0.25	0.23	0.01	0.01	<0.01	-0.06
X789022		2.39	51.0	4.17	12.95	9.67	21.5	0.37	0.06	0.418	0.25	0.23	<0.01	0.01	<0.01	0.04
X789023		2.49	50.9	4.10	13.00	9.79	21.7	0.34	0.05	0.416	0.25	0.23	0.01	<0.01	<0.01	0.56
X789024		2.58	50.4	4.10	12.75	9.53	21.4	0.36	0.07	0.413	0.24	0.23	0.01	0.01	<0.01	0.86
X789025		2.51	49.9	4.12	12.70	9.41	21.1	0.36	0.08	0.405	0.24	0.22	<0.01	0.01	<0.01	0.89
X789026		0.08	46.3	12.75	21.0	6.13	6.54	2.15	0.63	0.033	1.23	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: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788989		99.46	8.85	0.02	87.3	3.9	10	0.20	0.19	0.07	0.04	0.3	0.21	<5	<0.2	0.02
X788990		99.34	0.93	0.03	6.0	3.5	3040	0.97	1.28	0.60	0.29	6.0	1.21	<5	0.4	0.20
X788991		101.23	0.47	0.01	30.0	3.6	3140	1.68	1.12	0.59	0.25	6.1	0.94	<5	0.4	0.23
X788992		100.59	0.09	0.02	21.0	2.9	3140	1.00	1.02	0.42	0.27	5.9	0.92	<5	0.4	0.22
X788993		99.13	0.09	0.02	21.0	3.1	3210	1.21	1.01	0.71	0.31	5.8	0.85	<5	0.4	0.22
X788994		99.26	0.08	0.01	45.3	3.6	3080	0.95	0.95	0.67	0.25	7.7	1.11	<5	0.4	0.24
X788995		100.19	0.09	0.04	35.8	4.0	4090	1.36	1.06	0.60	0.32	6.8	1.13	<5	0.5	0.19
X788996		100.07	0.05	0.02	19.1	3.3	3000	0.50	1.23	0.67	0.30	6.5	1.02	<5	0.3	0.33
X788997		100.77	0.06	0.01	43.1	4.2	2820	1.14	1.25	0.67	0.33	7.2	1.04	<5	0.4	0.25
X788998		100.54	0.03	0.02	20.2	3.5	2960	0.29	1.37	0.94	0.21	6.8	1.25	<5	0.4	0.23
X788999		101.30	0.02	0.01	18.8	3.4	2950	0.17	1.45	0.69	0.34	6.9	1.13	<5	0.5	0.28
X789000		101.05	0.01	0.02	18.5	3.4	2980	0.18	1.03	0.68	0.32	6.8	1.18	<5	0.4	0.24
X789001		100.22	0.02	0.02	18.6	3.5	3000	0.23	1.06	0.81	0.30	6.7	1.25	<5	0.5	0.28
X789002		100.30	0.02	0.01	23.7	3.6	3030	0.38	1.23	0.88	0.29	6.9	1.27	<5	0.6	0.28
X789003		98.02	0.03	0.01	21.9	3.5	2920	0.38	1.06	0.68	0.30	6.3	1.35	<5	0.5	0.26
X789004		99.77	0.01	0.01	20.0	3.5	2960	0.31	1.25	0.67	0.28	6.9	1.03	<5	0.4	0.22
X789005		99.93	0.03	0.01	34.3	3.7	2880	0.33	1.19	0.66	0.37	7.6	1.29	<5	0.3	0.25
X789006		101.14	0.02	0.01	30.5	4.3	2980	0.49	1.11	0.71	0.27	7.1	1.44	<5	0.5	0.28
X789007		100.59	0.02	0.01	43.7	4.2	2970	0.72	1.23	0.79	0.27	6.9	1.47	<5	0.6	0.22
X789008		100.13	0.01	<0.01	23.1	3.7	3000	0.38	1.30	0.68	0.34	7.1	0.98	<5	0.4	0.25
X789009		92.06	0.09	9.11	110.0	15.6	370	0.72	1.98	0.96	0.96	12.1	1.80	<5	1.6	0.34
X789010		99.87	0.02	0.01	20.9	3.7	3070	0.31	1.27	0.70	0.44	6.9	1.46	<5	0.4	0.21
X789011		100.52	0.01	0.01	21.7	3.6	3020	0.23	1.22	0.84	0.28	7.0	1.23	<5	0.4	0.25
X789012		100.62	0.02	0.02	39.8	4.1	2920	0.92	1.03	0.72	0.32	7.3	1.26	<5	0.5	0.25
X789013		99.65	0.01	0.01	22.0	3.5	3080	0.34	1.13	0.74	0.29	7.1	1.34	<5	0.4	0.26
X789014		100.91	0.02	0.01	25.0	3.6	3110	0.48	0.97	0.76	0.37	7.2	1.25	<5	0.5	0.27
X789015		99.77	0.02	0.01	22.0	3.6	3020	0.64	1.03	0.77	0.37	6.6	1.03	<5	0.3	0.18
X789016		100.29	0.02	0.01	19.8	3.5	3060	0.29	1.29	0.73	0.36	6.6	1.15	<5	0.5	0.27
X789017		100.75	0.17	0.01	30.1	3.7	2860	0.98	1.16	0.58	0.28	7.4	1.31	<5	0.4	0.22
X789018		101.17	0.02	0.01	24.5	3.6	3150	0.68	0.91	0.95	0.33	6.8	1.01	<5	0.3	0.25
X789019		99.22	0.02	0.01	19.7	3.3	3150	0.29	1.23	0.64	0.27	6.2	1.11	<5	0.3	0.28
X789020		100.28	0.02	0.01	17.4	3.2	3170	0.20	1.15	0.70	0.29	6.5	1.09	<5	0.4	0.20
X789021		99.64	0.02	0.01	21.5	3.4	3160	0.33	1.10	0.63	0.37	6.5	1.17	<5	0.5	0.22
X789022		100.67	0.03	0.01	20.0	3.3	3190	0.30	1.16	0.70	0.30	6.1	1.17	<5	0.3	0.26
X789023		101.35	0.05	<0.01	17.8	3.2	3220	0.28	1.23	0.67	0.33	6.8	1.35	<5	0.4	0.21
X789024		100.37	0.06	0.01	22.8	4.1	3210	0.53	1.27	0.64	0.33	6.5	1.12	<5	0.4	0.28
X789025		99.44	0.05	0.02	21.5	3.6	3150	0.63	1.26	0.59	0.29	6.0	1.12	<5	0.4	0.26
X789026		98.34	0.07	1.70	204	25.2	240	0.90	2.32	1.30	1.04	16.0	3.03	<5	2.2	0.49

***** 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: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788989		1.8	0.01	2.3	2.2	0.43	0.5	0.36	<1	179.0	<0.1	0.03	0.24	<0.01	0.34	<5
X788990		1.2	0.08	0.5	3.1	0.58	1.5	0.68	<1	55.4	0.1	0.17	0.16	0.08	0.06	180
X788991		2.5	0.11	<0.2	3.2	0.67	4.9	1.01	<1	80.5	<0.1	0.17	0.07	0.09	<0.05	251
X788992		0.7	0.08	<0.2	2.8	0.45	2.8	0.92	<1	54.3	<0.1	0.15	<0.05	0.09	<0.05	201
X788993		0.8	0.08	<0.2	3.0	0.55	3.1	0.79	<1	57.6	<0.1	0.19	0.05	0.10	<0.05	204
X788994		1.1	0.10	<0.2	3.0	0.56	7.5	1.01	<1	130.0	<0.1	0.16	0.07	0.09	<0.05	205
X788995		2.5	0.14	0.2	3.6	0.62	4.8	1.07	<1	54.3	<0.1	0.19	0.14	0.11	0.05	280
X788996		0.8	0.08	<0.2	3.2	0.61	2.3	1.02	<1	65.6	<0.1	0.17	0.06	0.09	<0.05	234
X788997		1.4	0.12	0.2	3.6	0.61	5.8	1.32	<1	97.4	<0.1	0.18	0.16	0.08	0.06	229
X788998		1.0	0.10	<0.2	3.4	0.66	1.3	0.97	<1	71.2	<0.1	0.21	0.08	0.11	<0.05	237
X788999		1.1	0.12	<0.2	3.6	0.66	1.1	1.08	<1	72.6	<0.1	0.22	0.09	0.07	<0.05	239
X789000		1.1	0.12	<0.2	3.1	0.68	1.3	1.11	<1	71.4	<0.1	0.16	0.07	0.09	<0.05	239
X789001		0.9	0.13	<0.2	3.7	0.71	1.3	0.91	<1	71.5	<0.1	0.24	0.06	0.10	0.05	239
X789002		1.1	0.10	<0.2	3.6	0.63	2.0	0.91	<1	72.9	<0.1	0.18	0.08	0.07	<0.05	236
X789003		1.1	0.12	<0.2	3.2	0.61	1.7	1.07	<1	70.8	<0.1	0.18	0.12	0.10	<0.05	231
X789004		1.0	0.06	<0.2	3.8	0.58	1.5	1.13	<1	71.8	<0.1	0.21	0.09	0.12	<0.05	240
X789005		1.4	0.10	<0.2	3.6	0.68	2.7	1.11	<1	93.2	<0.1	0.18	0.15	0.10	<0.05	232
X789006		1.3	0.12	0.2	3.5	0.64	2.7	1.19	<1	75.3	<0.1	0.21	0.14	0.11	0.05	232
X789007		1.4	0.11	0.2	3.7	0.75	4.2	1.20	<1	78.2	<0.1	0.23	0.15	0.10	0.11	234
X789008		1.2	0.09	<0.2	3.6	0.64	2.1	0.91	<1	74.2	<0.1	0.16	0.07	0.09	0.05	235
X789009		7.0	0.12	5.0	9.2	2.03	11.1	2.08	2	174.0	0.3	0.29	0.98	0.16	0.45	88
X789010		1.0	0.09	<0.2	3.0	0.66	1.6	1.12	<1	68.4	<0.1	0.17	0.15	0.11	<0.05	238
X789011		1.0	0.10	<0.2	3.6	0.60	1.7	0.83	<1	80.0	<0.1	0.17	0.10	0.12	<0.05	232
X789012		1.5	0.11	<0.2	3.3	0.70	4.7	1.13	<1	99.2	<0.1	0.18	0.17	0.06	<0.05	225
X789013		1.3	0.09	<0.2	3.2	0.58	1.9	1.02	<1	73.5	<0.1	0.23	0.08	0.10	<0.05	227
X789014		1.1	0.09	<0.2	3.4	0.55	2.4	1.07	<1	74.8	<0.1	0.16	0.08	0.10	<0.05	227
X789015		1.1	0.11	<0.2	3.1	0.56	2.3	1.10	<1	71.8	<0.1	0.18	0.11	0.10	<0.05	230
X789016		1.1	0.11	<0.2	3.2	0.62	1.7	1.09	<1	71.8	<0.1	0.18	0.10	0.10	<0.05	229
X789017		1.4	0.07	0.2	3.6	0.68	4.7	1.08	<1	87.1	<0.1	0.17	0.10	0.13	<0.05	212
X789018		1.1	0.10	<0.2	3.3	0.58	2.3	1.03	<1	79.1	<0.1	0.21	0.09	0.11	<0.05	224
X789019		1.0	0.11	<0.2	3.7	0.53	1.5	1.12	<1	58.3	<0.1	0.19	0.07	0.08	<0.05	225
X789020		1.1	0.10	<0.2	3.5	0.58	1.4	1.11	<1	62.4	<0.1	0.18	<0.05	0.11	<0.05	225
X789021		1.1	0.10	<0.2	3.3	0.55	1.9	1.05	<1	64.4	<0.1	0.20	0.09	0.08	0.05	227
X789022		1.1	0.12	<0.2	3.5	0.62	1.9	1.02	<1	59.5	<0.1	0.19	0.08	0.14	<0.05	229
X789023		1.1	0.09	<0.2	3.0	0.54	1.7	0.89	<1	54.9	<0.1	0.20	0.09	0.08	<0.05	227
X789024		1.5	0.13	0.2	3.8	0.67	2.6	1.24	<1	59.5	<0.1	0.17	0.32	0.13	0.61	228
X789025		1.0	0.13	<0.2	3.5	0.57	3.0	1.14	<1	59.2	<0.1	0.17	0.15	0.09	0.07	217
X789026		11.3	0.17	7.1	12.9	3.11	15.8	2.89	3	250	0.4	0.42	1.46	0.20	0.36	122

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

Finalized Date: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788989		1	0.6	<0.03	4	0.3	0.01	<0.005	<0.005	<0.001	0.05	0.2	<0.01	0.02	<0.5	<0.5
X788990		1	5.0	0.66	10	0.4	0.02	<0.005	0.006	<0.001	0.06	<0.2	<0.01	0.02	<0.5	0.6
X788991		1	5.8	0.77	9	0.1	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
X788992		<1	5.5	0.63	8	<0.1	<0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
X788993		<1	5.6	0.62	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
X788994		1	6.0	0.84	9	0.5	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X788995		1	6.2	0.82	10	0.8	<0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X788996		1	6.4	0.83	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X788997		<1	6.5	0.84	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.03	<0.5	0.6
X788998		<1	6.3	0.77	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X788999		<1	6.7	0.84	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
X789000		<1	6.4	0.71	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
X789001		<1	6.8	1.05	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.8
X789002		<1	6.8	0.72	13	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789003		<1	6.4	0.73	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789004		<1	6.5	0.68	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.6
X789005		2	6.5	0.54	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.5
X789006		<1	6.6	0.86	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X789007		<1	6.7	0.81	12	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X789008		<1	6.5	0.66	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X789009		3	9.5	1.09	62	14.4	1.62	0.148	0.103	0.020	2.31	21.7	4.21	0.14	3.9	2.3
X789010		<1	6.6	0.75	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.6
X789011		<1	6.4	0.86	11	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789012		<1	6.4	0.85	11	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.7
X789013		<1	6.3	0.78	10	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.5
X789014		<1	6.4	0.64	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
X789015		1	6.2	0.66	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789016		<1	6.3	0.65	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
X789017		<1	5.8	0.53	11	1.0	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X789018		<1	6.5	0.79	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X789019		<1	6.0	0.68	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789020		<1	6.3	0.71	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789021		<1	6.3	0.53	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789022		<1	6.3	0.85	9	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
X789023		<1	6.3	0.77	10	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X789024		<1	6.4	0.65	10	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
X789025		<1	6.1	0.75	10	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
X789026		3	12.5	1.17	95	3.7	0.93	<0.005	0.061	0.006	0.32	4.8	0.58	0.10	1.9	0.9

***** 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: 29-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19009493

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
X788989		1	1	10	<1	3	<2	<1	25			<1	<5	<1	<0.003
X788990		89	9	10	<1	663	<2	39	80			<1	17	9	0.012
X788991		85	11	<10	<1	586	4	43	80			<1	16	10	0.009
X788992		87	12	<10	<1	610	<2	42	81			<1	13	8	0.010
X788993		89	10	<10	<1	634	6	43	77			<1	12	7	0.009
X788994		80	10	10	<1	532	4	44	76			<1	10	5	0.008
X788995		91	42	10	<1	646	<2	43	84			4	11	16	0.061
X788996		79	7	<10	<1	518	<2	49	77			<1	7	4	0.025
X788997		77	7	10	<1	490	<2	47	73			1	7	4	0.024
X788998		79	6	10	<1	506	2	48	75			1	7	4	0.024
X788999		80	8	<10	<1	516	2	51	78			2	9	4	0.015
X789000		79	6	<10	<1	497	<2	50	76			<1	9	4	0.010
X789001		78	7	<10	<1	499	4	49	76			<1	8	7	0.011
X789002		78	6	10	<1	491	<2	49	74			<1	5	6	0.006
X789003		79	6	10	<1	499	<2	50	75			<1	6	5	0.011
X789004		78	11	10	<1	494	<2	49	75			1	7	6	0.011
X789005		75	12	10	<1	475	<2	47	74			<1	8	5	0.013
X789006		76	13	10	<1	483	<2	48	76			<1	8	5	0.016
X789007		79	13	10	<1	496	<2	49	78			<1	7	3	0.010
X789008		75	12	10	1	489	<2	48	73			1	7	5	0.011
X789009		892	>10000	10	3	>10000	21	8	131	15650	46300	241	785	3320	19.25
X789010		80	35	10	<1	538	2	50	75			<1	<5	4	0.019
X789011		76	18	<10	<1	492	3	48	76			<1	6	4	0.013
X789012		74	12	10	<1	471	2	45	73			<1	27	5	0.012
X789013		76	11	<10	<1	481	<2	46	72			8	7	3	0.008
X789014		75	12	<10	<1	485	<2	46	72			<1	6	3	0.010
X789015		75	12	<10	<1	487	<2	46	71			<1	<5	3	0.012
X789016		76	12	<10	<1	491	<2	47	72			<1	<5	2	0.011
X789017		69	9	<10	<1	455	<2	42	65			<1	<5	2	0.013
X789018		77	9	10	<1	501	<2	46	70			<1	7	3	0.010
X789019		78	9	<10	<1	510	2	47	73			<1	6	2	0.010
X789020		80	11	<10	<1	530	3	47	77			11	<5	2	0.004
X789021		82	9	<10	<1	528	6	48	74			<1	<5	2	0.010
X789022		82	10	10	<1	546	<2	49	76			<1	5	2	0.011
X789023		81	10	<10	<1	547	<2	48	74			<1	<5	3	0.014
X789024		80	9	10	<1	545	<2	48	79			<1	5	2	0.009
X789025		81	10	<10	<1	543	<2	47	75			<1	6	2	0.015
X789026		110	4340	20	4	4160	26	12	99			54	308	585	4.23

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THUNDER BAY ON P7B 2R2

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CERTIFICATE OF ANALYSIS TB19009493

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			