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: 18-JAN-2019
Account: MZI

CERTIFICATE TB18327963

Project: EMB

P.O. No.: 198288

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 22-DEC-2018.

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

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	PGM-ICP23 Au ppb 1	PGM-ICP23 Pd ppb 1	PGM-ICP23 Pt ppb 5	Cu-OG62 Cu ppm 10	Ni-OG62 Ni ppm 10	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
X788559		2.48	7	1	<5			12.20	0.04	0.06	28.4	22.4	0.01	<0.01	<0.002	<0.01
X788560		0.08	4420	1980	1280			84.1	5.34	3.19	0.04	0.42	0.05	0.69	0.014	0.32
X788561		2.35	3	2	<5			52.2	8.57	10.75	9.53	16.95	1.05	0.24	0.251	0.24
X788562		2.42	4	1	<5			51.7	8.61	10.40	9.34	16.55	0.98	0.24	0.242	0.24
X788563		2.60	3	2	<5			52.1	8.89	10.45	9.54	16.90	0.99	0.18	0.244	0.24
X788564		2.33	4	3	<5			51.5	8.51	10.35	9.46	16.90	0.98	0.18	0.247	0.25
X788565		2.29	2	2	<5			52.2	8.54	10.40	9.58	17.20	0.97	0.20	0.252	0.25
X788566		2.56	3	2	<5			52.7	8.33	10.75	9.79	17.70	0.91	0.14	0.267	0.26
X788567		2.35	3	18	<5			52.4	8.34	10.65	9.65	17.40	0.90	0.14	0.263	0.26
X788568		2.59	3	2	<5			51.3	7.91	10.50	9.38	17.20	0.90	0.14	0.257	0.26
X788569		2.46	<1	2	<5			51.9	7.75	10.65	9.61	17.65	0.83	0.15	0.271	0.27
X788570		2.56	5	2	5			51.7	7.71	10.55	9.25	17.55	0.86	0.15	0.263	0.26
X788571		2.44	3	2	<5			50.8	7.47	10.60	9.28	17.55	0.78	0.15	0.269	0.26
X788572		2.47	7	2	<5			50.9	7.46	10.45	9.27	17.55	0.79	0.16	0.271	0.27
X788573		2.34	3	2	5			51.7	7.50	10.45	9.49	18.00	0.79	0.15	0.277	0.27
X788574		2.34	2	2	<5			51.3	7.45	10.00	9.25	17.90	0.83	0.16	0.277	0.27
X788575		2.23	4	2	<5			51.5	7.36	9.96	9.48	18.05	0.81	0.17	0.280	0.28
X788576		2.62	3	1	5			51.2	7.09	10.05	9.24	18.55	0.73	0.15	0.287	0.29
X788577		2.58	6	2	<5			51.3	6.98	10.10	9.21	18.70	0.77	0.20	0.289	0.29
X788578		2.39	1	2	<5			50.9	6.92	10.05	9.18	18.45	0.74	0.20	0.288	0.28
X788579		0.07	86	614	331			47.3	12.50	20.7	6.18	6.53	2.13	0.62	0.033	1.22
X788580		2.33	2	2	<5			50.9	6.61	10.35	9.02	18.05	0.74	0.19	0.275	0.28
X788581		2.60	4	1	<5			51.7	6.46	10.85	9.35	18.20	0.67	0.14	0.274	0.26
X788582		2.35	5	4	14			51.7	7.25	10.65	9.57	17.90	0.73	0.26	0.285	0.26
X788583		2.11	1	13	9			50.8	6.51	10.95	9.21	17.75	0.68	0.20	0.274	0.24
X788584		2.27	2	11	5			52.1	6.92	11.20	9.45	17.60	0.72	0.22	0.281	0.25
X788585		2.56	3	12	<5			50.6	6.86	11.00	9.11	17.35	0.80	0.25	0.270	0.24
X788586		2.28	5	8	10			50.3	6.53	11.45	9.55	17.65	0.71	0.14	0.272	0.24
X788587		2.50	3	10	7			46.3	5.24	11.95	10.15	19.40	0.28	0.10	0.395	0.23
X788588		2.09	8	18	9			40.6	3.63	14.45	8.49	21.0	0.07	0.02	0.454	0.12
X788589		2.32	7	18	19			38.1	2.76	12.40	5.13	26.8	0.01	0.01	0.713	0.10
X788590		2.11	6	41	9			36.6	3.48	11.30	10.95	21.7	0.02	0.01	0.671	0.12
X788591		2.05	3	18	13			49.5	7.56	10.65	9.06	17.25	0.68	0.35	0.309	0.21
X788592		2.41	1	3	<5			51.0	9.59	9.51	10.10	14.80	1.15	0.60	0.196	0.20
X788593		2.53	1	2	6			50.6	8.42	10.15	9.93	15.75	1.05	0.38	0.217	0.22
X788594		1.55	2	4	6			53.9	20.0	5.37	10.30	6.11	3.07	0.48	0.012	0.09
X788595		2.35	5	22	14			51.5	14.45	10.15	8.44	10.70	1.96	0.19	0.028	0.18
X788596		2.33	8	43	14			51.1	13.05	11.70	8.17	11.95	1.53	0.17	0.034	0.23
X788597		2.26	7	46	15			51.1	14.35	10.85	8.46	11.00	1.70	0.24	0.031	0.24
X788598		2.52	7	37	14			50.8	14.35	10.60	8.49	10.75	1.73	0.25	0.030	0.23

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Sample Description	Method / Analyte / Units / LOD	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	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
X788559		0.05	0.02	0.02	0.03	36.4	99.63	9.72	0.01	291	4.3	<10	0.20	0.09	<0.03	0.06
X788560		0.18	0.09	<0.01	0.07	5.30	99.80	3.95	0.02	548	176.5	90	0.89	1.21	0.82	0.45
X788561		0.21	0.01	0.02	0.01	1.94	101.97	0.06	0.01	71.6	4.5	1900	2.40	1.16	0.69	0.44
X788562		0.20	0.01	0.02	0.01	1.47	100.01	0.04	0.01	73.7	4.1	1830	3.17	1.21	0.69	0.38
X788563		0.20	0.01	0.02	0.01	0.95	100.72	0.03	0.01	76.0	3.9	1820	1.75	1.04	0.74	0.42
X788564		0.21	0.01	0.02	0.01	0.99	99.62	0.03	0.01	74.4	4.1	1880	1.84	1.12	0.67	0.43
X788565		0.21	0.01	0.02	0.01	1.10	100.94	0.02	0.01	74.0	4.2	1960	1.68	1.16	0.71	0.38
X788566		0.21	0.01	0.02	0.01	0.31	101.41	0.02	0.01	65.3	4.3	2070	1.10	1.25	0.73	0.41
X788567		0.21	0.01	0.02	0.01	0.31	100.56	0.01	0.01	68.7	4.2	2020	0.88	1.24	0.77	0.40
X788568		0.21	0.02	0.02	0.01	0.44	98.55	0.01	0.01	63.8	4.8	2010	0.85	1.19	0.74	0.45
X788569		0.21	0.01	0.02	0.01	0.34	99.67	0.02	0.01	66.1	4.4	2090	1.06	1.24	0.78	0.40
X788570		0.21	0.01	0.02	0.01	0.83	99.37	0.02	0.01	64.5	4.4	2040	1.02	1.34	0.80	0.40
X788571		0.21	0.01	0.02	0.01	0.73	98.14	0.03	0.01	63.2	4.3	2090	1.25	1.22	0.74	0.42
X788572		0.21	<0.01	0.02	0.01	1.00	98.36	0.03	0.01	58.4	4.2	2000	1.42	1.21	0.70	0.38
X788573		0.21	0.01	0.02	0.01	0.44	99.32	0.04	0.01	61.9	4.5	2170	1.14	1.23	0.78	0.43
X788574		0.20	0.01	0.02	0.01	1.55	99.23	0.03	0.01	58.3	4.8	2140	1.71	1.44	0.70	0.46
X788575		0.21	0.01	0.01	0.01	1.28	99.41	0.01	0.01	64.8	4.9	2170	1.69	1.34	0.85	0.44
X788576		0.21	0.01	0.01	0.01	1.28	99.11	0.02	0.01	61.5	5.0	2230	1.31	1.36	0.89	0.44
X788577		0.20	0.01	0.02	0.01	1.17	99.25	0.02	0.01	74.1	5.0	2250	1.52	1.39	0.76	0.46
X788578		0.20	0.01	0.01	0.01	1.05	98.29	0.02	0.01	67.0	4.8	2100	1.65	1.29	0.77	0.37
X788579		0.19	0.15	0.03	0.02	1.20	98.80	0.08	1.78	219	26.0	250	0.93	2.46	1.40	1.14
X788580		0.19	<0.01	0.01	0.01	2.39	99.02	0.08	0.01	55.7	4.3	1960	1.83	1.11	0.70	0.36
X788581		0.21	0.02	0.01	<0.01	2.62	100.76	0.07	0.01	44.9	4.1	2000	1.54	1.13	0.63	0.33
X788582		0.20	0.01	0.01	0.01	1.82	100.66	0.01	0.01	73.1	4.1	2060	2.46	1.16	0.68	0.33
X788583		0.20	0.02	0.01	0.01	1.95	98.80	0.02	0.01	51.2	4.8	2010	2.35	1.17	0.71	0.39
X788584		0.20	0.01	0.01	0.01	1.22	100.19	0.03	0.01	67.0	3.8	2070	2.02	1.18	0.68	0.36
X788585		0.20	0.01	0.01	0.01	3.04	99.75	0.03	0.01	50.3	3.7	2000	2.46	1.06	0.66	0.31
X788586		0.22	0.01	<0.01	<0.01	2.95	100.02	0.02	<0.01	23.7	3.5	2040	1.03	1.12	0.71	0.34
X788587		0.20	<0.01	<0.01	<0.01	5.77	100.02	0.62	0.04	10.0	3.0	2780	1.46	0.93	0.65	0.28
X788588		0.24	0.01	<0.01	<0.01	10.05	99.13	1.42	0.06	3.2	2.0	3330	1.09	0.59	0.34	0.11
X788589		0.16	0.01	<0.01	<0.01	12.00	98.19	1.25	0.07	4.4	1.7	5140	0.98	0.30	0.17	0.04
X788590		0.11	0.01	<0.01	<0.01	14.35	99.32	2.68	0.12	7.3	1.6	4970	0.90	0.35	0.22	0.04
X788591		0.19	0.01	0.01	0.01	3.67	99.46	0.16	0.01	59.8	2.9	2320	1.23	0.90	0.59	0.33
X788592		0.19	<0.01	0.02	0.01	2.98	100.35	0.05	0.01	104.0	4.0	1470	1.59	1.14	0.65	0.40
X788593		0.19	0.02	0.01	0.01	2.93	99.88	0.07	0.01	71.5	3.7	1600	1.65	1.06	0.61	0.34
X788594		0.08	<0.01	0.05	0.01	1.59	101.06	0.05	<0.01	129.5	7.1	90	1.16	0.51	0.26	0.35
X788595		0.16	0.02	0.03	0.01	0.77	98.59	0.09	0.03	73.8	4.2	210	0.85	0.54	0.41	0.26
X788596		0.18	0.02	0.02	0.01	0.93	99.09	0.15	0.06	57.5	3.4	250	0.88	0.68	0.41	0.23
X788597		0.17	0.02	0.02	0.01	1.50	99.69	0.08	0.06	69.3	3.7	230	1.33	0.56	0.42	0.28
X788598		0.16	0.01	0.02	0.01	1.09	98.52	0.07	0.09	70.0	3.8	220	1.36	0.63	0.47	0.28

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Sample Description	Method / Analyte / Units / LOD	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	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
X788559		0.3	0.18	<5	<0.2	0.01	2.0	0.01	2.4	2.0	0.54	0.5	0.27	<1	178.0	0.1
X788560		5.7	1.33	<5	1.4	0.26	131.5	0.15	3.9	45.5	16.55	19.0	3.01	2	52.7	0.3
X788561		9.3	1.18	<5	0.4	0.23	2.0	0.11	0.3	3.7	0.67	8.8	0.99	<1	184.0	0.1
X788562		9.4	1.13	<5	0.4	0.22	1.7	0.11	0.2	3.5	0.69	8.4	0.99	<1	198.0	0.1
X788563		9.3	1.20	<5	0.3	0.24	1.6	0.10	<0.2	3.5	0.62	4.9	0.91	<1	205	0.1
X788564		9.1	1.34	<5	0.4	0.24	1.6	0.11	<0.2	3.7	0.65	5.0	1.05	<1	203	0.1
X788565		9.7	1.19	<5	0.4	0.24	1.6	0.11	<0.2	3.6	0.69	5.7	0.99	<1	195.0	0.1
X788566		9.6	1.32	<5	0.5	0.25	1.7	0.10	<0.2	3.9	0.70	3.1	1.16	<1	197.5	0.1
X788567		9.3	1.23	<5	0.4	0.25	1.6	0.11	<0.2	3.8	0.72	3.2	1.04	<1	197.0	0.1
X788568		9.1	1.40	<5	0.5	0.26	1.9	0.12	0.2	4.1	0.77	3.2	1.14	<1	185.0	0.1
X788569		9.2	1.33	<5	0.5	0.27	1.7	0.12	<0.2	3.7	0.75	3.5	1.10	<1	178.0	0.1
X788570		9.2	1.32	<5	0.4	0.26	1.7	0.11	<0.2	3.9	0.76	3.5	1.10	<1	173.5	0.1
X788571		8.7	1.17	<5	0.4	0.26	1.7	0.11	<0.2	3.8	0.77	3.7	1.15	<1	162.5	0.1
X788572		8.4	1.25	<5	0.4	0.27	1.6	0.12	<0.2	3.9	0.73	4.2	1.17	<1	152.0	0.1
X788573		9.3	1.48	<5	0.5	0.28	1.8	0.13	<0.2	4.2	0.77	3.6	1.23	<1	170.5	0.1
X788574		9.0	1.34	<5	0.4	0.30	1.9	0.11	<0.2	4.3	0.78	4.7	1.25	<1	152.5	0.1
X788575		9.0	1.39	<5	0.5	0.30	1.8	0.12	<0.2	4.3	0.86	5.4	1.15	<1	155.0	0.1
X788576		9.5	1.57	<5	0.6	0.32	1.8	0.12	<0.2	4.5	0.85	4.3	1.36	1	144.5	0.2
X788577		8.8	1.48	<5	0.5	0.27	2.0	0.12	<0.2	4.6	0.88	6.5	1.30	<1	150.0	0.1
X788578		8.3	1.27	<5	0.5	0.29	1.8	0.12	<0.2	4.1	0.78	6.2	1.24	<1	140.0	0.1
X788579		15.1	2.74	<5	2.1	0.48	12.0	0.18	6.8	13.9	3.14	16.5	2.91	3	259	0.5
X788580		7.5	1.37	<5	0.4	0.26	1.7	0.12	<0.2	3.8	0.73	5.4	1.18	<1	113.0	<0.1
X788581		7.9	1.26	<5	0.3	0.26	1.5	0.12	<0.2	3.6	0.67	4.5	1.06	<1	102.0	<0.1
X788582		8.2	1.24	<5	0.4	0.26	1.9	0.10	<0.2	3.8	0.62	9.8	1.05	<1	140.5	<0.1
X788583		7.8	1.13	<5	0.3	0.28	2.0	0.11	<0.2	3.8	0.72	7.7	1.19	<1	120.0	<0.1
X788584		8.0	1.23	<5	0.4	0.23	1.5	0.12	<0.2	3.1	0.62	8.2	1.10	<1	142.5	<0.1
X788585		8.0	1.10	<5	0.4	0.23	1.5	0.11	<0.2	3.3	0.60	10.2	0.97	<1	97.2	<0.1
X788586		7.8	1.22	<5	0.4	0.27	1.6	0.10	<0.2	3.4	0.56	4.9	1.11	<1	76.5	0.1
X788587		7.3	1.07	<5	1.0	0.20	1.1	0.09	<0.2	2.8	0.46	3.6	1.03	<1	25.9	0.1
X788588		5.5	0.54	<5	0.2	0.11	0.9	0.06	<0.2	1.6	0.33	1.3	0.55	<1	27.4	0.1
X788589		4.7	0.35	<5	<0.2	0.07	0.9	0.04	<0.2	1.3	0.23	1.5	0.31	<1	24.3	0.1
X788590		5.0	0.31	<5	0.2	0.06	0.8	0.05	<0.2	1.2	0.23	0.8	0.34	<1	49.1	0.1
X788591		8.5	0.92	<5	0.2	0.19	1.0	0.08	<0.2	2.7	0.46	15.1	0.99	<1	110.5	<0.1
X788592		9.5	1.03	<5	0.2	0.21	1.7	0.09	<0.2	3.2	0.58	27.7	1.01	<1	206	<0.1
X788593		8.7	1.15	<5	0.3	0.21	1.5	0.09	<0.2	3.2	0.59	16.0	0.93	<1	155.5	<0.1
X788594		19.5	0.55	<5	0.3	0.10	4.0	0.04	0.2	3.1	0.81	14.6	0.71	<1	459	0.1
X788595		13.7	0.60	<5	0.2	0.12	2.5	0.06	<0.2	2.1	0.48	4.7	0.57	<1	289	0.1
X788596		12.1	0.56	<5	0.3	0.14	1.8	0.07	<0.2	1.8	0.40	3.4	0.52	<1	180.5	0.1
X788597		12.5	0.65	<5	0.3	0.13	2.0	0.06	0.2	1.9	0.41	6.4	0.45	<1	206	0.1
X788598		12.7	0.42	<5	0.3	0.12	2.3	0.07	0.2	1.8	0.44	6.0	0.51	<1	209	<0.1

***** 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: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	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	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
X788559		0.01	0.25	0.01	0.37	<5	<1	0.4	0.03	2	0.7	0.01	<0.005	<0.005	<0.001	<0.05
X788560		0.19	5.27	0.13	7.05	72	2	9.3	0.87	56	5.6	13.00	0.056	0.097	0.003	0.34
X788561		0.17	0.09	0.10	<0.05	228	<1	6.5	0.75	11	0.2	0.02	<0.005	<0.005	<0.001	<0.05
X788562		0.17	0.08	0.10	<0.05	221	<1	6.5	0.73	10	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788563		0.19	0.06	0.10	<0.05	219	<1	6.4	0.72	10	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788564		0.19	<0.05	0.11	<0.05	224	<1	6.6	0.86	10	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788565		0.19	0.05	0.10	<0.05	229	<1	6.8	0.80	11	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788566		0.18	<0.05	0.11	<0.05	238	<1	7.2	0.83	11	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788567		0.22	<0.05	0.11	<0.05	232	<1	6.8	0.78	11	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788568		0.20	0.07	0.10	<0.05	229	<1	7.1	0.73	12	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788569		0.19	0.06	0.11	<0.05	234	<1	7.1	0.77	11	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788570		0.18	0.05	0.10	<0.05	224	<1	7.0	0.82	11	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788571		0.20	0.05	0.12	<0.05	225	1	6.9	0.77	11	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788572		0.19	0.06	0.11	<0.05	231	<1	6.7	0.79	11	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788573		0.25	0.05	0.11	<0.05	229	<1	7.5	0.83	12	0.3	<0.01	<0.005	<0.005	<0.001	<0.05
X788574		0.23	0.20	0.11	0.81	223	<1	7.9	0.76	12	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788575		0.23	0.06	0.12	<0.05	219	<1	7.8	0.80	13	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788576		0.21	0.07	0.13	<0.05	220	1	7.7	0.88	15	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788577		0.21	0.08	0.13	<0.05	222	<1	7.8	0.79	13	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788578		0.20	0.08	0.11	<0.05	218	<1	7.2	0.80	12	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788579		0.41	1.70	0.20	0.48	122	3	13.1	1.19	85	4.3	0.76	0.008	0.060	0.004	0.27
X788580		0.21	0.10	0.11	<0.05	196	<1	6.8	0.87	10	0.4	0.01	<0.005	<0.005	<0.001	<0.05
X788581		0.20	0.06	0.11	<0.05	201	<1	6.6	0.78	10	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788582		0.17	0.06	0.10	<0.05	203	<1	6.8	0.69	10	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788583		0.19	0.29	0.11	<0.05	201	<1	6.5	0.75	9	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788584		0.18	0.09	0.11	<0.05	209	<1	6.5	0.75	9	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788585		0.19	0.07	0.11	<0.05	205	<1	6.2	0.69	9	0.4	0.02	<0.005	<0.005	<0.001	<0.05
X788586		0.18	0.09	0.10	<0.05	219	1	6.3	0.66	11	0.3	0.03	<0.005	<0.005	<0.001	<0.05
X788587		0.16	0.07	0.09	0.08	194	1	5.4	0.60	36	0.6	0.11	<0.005	0.006	<0.001	<0.05
X788588		0.06	0.17	0.05	0.06	107	1	2.9	0.37	8	19.7	0.09	<0.005	0.008	0.107	0.05
X788589		0.05	0.06	0.03	<0.05	85	1	1.8	0.22	5	15.5	0.19	<0.005	0.009	0.022	0.08
X788590		0.06	0.05	0.03	<0.05	99	<1	1.9	0.22	5	2.7	0.16	<0.005	0.010	<0.001	<0.05
X788591		0.16	<0.05	0.07	<0.05	197	1	5.3	0.59	7	0.6	0.09	<0.005	<0.005	<0.001	<0.05
X788592		0.17	0.19	0.09	<0.05	206	1	5.6	0.67	8	0.2	0.03	<0.005	<0.005	<0.001	<0.05
X788593		0.16	0.06	0.09	<0.05	210	1	5.9	0.61	9	0.3	0.09	<0.005	<0.005	<0.001	<0.05
X788594		0.08	0.18	0.03	0.05	59	<1	2.6	0.24	9	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788595		0.09	0.13	0.06	<0.05	136	<1	3.5	0.41	8	0.2	<0.01	<0.005	<0.005	<0.001	<0.05
X788596		0.08	0.08	0.06	<0.05	160	<1	3.7	0.48	9	0.4	0.01	<0.005	<0.005	<0.001	<0.05
X788597		0.08	0.13	0.05	0.05	153	<1	3.7	0.49	11	0.5	0.02	<0.005	<0.005	0.001	<0.05
X788598		0.08	0.16	0.08	0.06	152	<1	3.6	0.43	10	0.5	0.01	<0.005	<0.005	<0.001	<0.05

***** 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: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	Se-MS46
	Analyte	Se	Te	Tl	Ag	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	Se
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.02	0.5	0.5	1	1	10	1	1	2	1	2	0.003
X788559		0.4	<0.01	<0.02	<0.5	<0.5	2	1	10	<1	3	2	<1	20	<0.003
X788560		3.0	0.40	0.04	1.0	<0.5	62	84	10	6	83	54	5	46	3.15
X788561		<0.2	<0.01	0.05	<0.5	1.0	67	8	10	<1	354	2	43	66	0.006
X788562		<0.2	<0.01	0.08	<0.5	1.1	67	9	10	<1	342	<2	43	64	0.005
X788563		<0.2	0.01	0.07	<0.5	1.3	69	9	10	<1	363	2	46	67	0.005
X788564		<0.2	<0.01	0.06	<0.5	1.3	67	10	10	<1	361	<2	46	65	0.003
X788565		<0.2	<0.01	0.03	<0.5	1.0	67	10	10	<1	352	2	44	63	0.004
X788566		<0.2	<0.01	0.02	<0.5	1.4	67	12	10	<1	360	<2	45	64	0.005
X788567		<0.2	<0.01	0.04	<0.5	1.2	70	34	10	<1	373	<2	45	65	0.014
X788568		<0.2	<0.01	0.02	<0.5	1.3	70	14	10	<1	373	3	47	69	0.004
X788569		<0.2	<0.01	0.02	<0.5	1.1	68	15	10	<1	370	3	46	65	0.005
X788570		<0.2	<0.01	0.03	<0.5	1.3	67	14	10	<1	358	2	45	64	0.006
X788571		<0.2	<0.01	0.03	<0.5	1.1	69	13	10	<1	369	<2	46	66	0.004
X788572		<0.2	0.01	0.05	<0.5	1.2	70	11	10	<1	380	<2	47	71	0.005
X788573		<0.2	<0.01	0.03	<0.5	1.4	67	11	10	<1	371	<2	46	63	0.005
X788574		<0.2	<0.01	0.08	<0.5	1.4	70	14	20	<1	389	4	48	61	0.008
X788575		<0.2	<0.01	0.06	<0.5	1.1	67	15	10	<1	378	<2	46	64	0.009
X788576		<0.2	<0.01	0.07	<0.5	1.1	69	18	10	<1	399	<2	48	67	0.009
X788577		<0.2	0.01	0.09	<0.5	1.4	68	24	10	<1	396	2	47	66	0.011
X788578		<0.2	<0.01	0.08	<0.5	1.1	65	24	10	<1	391	2	46	66	0.016
X788579		5.0	0.58	0.08	2.2	2.4	115	4490	20	5	4410	29	12	105	4.05
X788580		<0.2	<0.01	0.06	<0.5	1.1	65	28	20	<1	393	3	46	70	0.019
X788581		<0.2	0.02	0.05	<0.5	1.1	63	15	20	<1	367	2	43	73	0.012
X788582		<0.2	<0.01	0.06	<0.5	1.1	63	21	10	<1	387	<2	45	68	0.028
X788583		<0.2	<0.01	0.05	<0.5	1.1	64	24	10	<1	387	4	46	75	0.021
X788584		<0.2	<0.01	0.05	<0.5	1.2	64	25	10	<1	374	<2	45	76	0.023
X788585		<0.2	0.01	0.06	<0.5	1.3	66	21	20	<1	377	2	45	68	0.014
X788586		<0.2	0.01	0.02	<0.5	1.3	68	3	10	<1	391	<2	46	74	0.006
X788587		<0.2	0.03	0.16	<0.5	1.2	79	31	10	<1	617	2	39	176	0.028
X788588		0.3	0.02	0.05	<0.5	1.4	96	47	10	207	856	3	16	69	0.099
X788589		0.2	0.06	0.04	<0.5	1.5	122	64	<10	38	1365	5	13	93	0.063
X788590		0.3	0.05	0.11	<0.5	1.0	99	142	<10	<1	1290	<2	15	93	0.059
X788591		<0.2	0.03	0.03	<0.5	1.3	69	23	10	<1	462	<2	39	74	0.012
X788592		<0.2	0.01	0.02	<0.5	1.0	55	2	10	<1	323	<2	40	57	0.004
X788593		<0.2	0.02	0.02	<0.5	1.3	60	4	10	<1	358	<2	41	60	0.007
X788594		<0.2	<0.01	<0.02	<0.5	0.6	34	3	10	<1	157	4	14	42	0.003
X788595		<0.2	0.01	<0.02	<0.5	1.0	64	37	10	<1	245	2	28	69	0.073
X788596		0.2	0.02	0.02	<0.5	1.4	69	82	10	<1	268	4	34	74	0.141
X788597		0.3	0.02	0.02	<0.5	1.3	65	80	10	<1	255	<2	31	72	0.121
X788598		0.3	0.01	0.02	<0.5	1.1	63	72	10	<1	245	<2	29	68	0.150

***** 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: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppb 1	PGM-ICP23 Pd ppb 1	PGM-ICP23 Pt ppb 5	Cu-OG62 Cu ppm 10	Ni-OG62 Ni ppm 10	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
X788599		2.04	3	2	<5			21.1	0.06	0.11	26.3	20.9	0.03	0.01	<0.002	<0.01
X788600		2.33	4	33	8			51.0	12.05	13.05	7.75	13.25	1.45	0.26	0.036	0.28
X788601		2.18	6	37	12			50.7	12.10	12.25	7.84	12.50	1.41	0.23	0.034	0.23
X788602		2.14	6	41	13			50.8	12.80	11.80	8.05	11.90	1.48	0.28	0.033	0.24
X788603		2.26	17	71	21			51.1	11.40	12.90	7.67	13.20	1.28	0.26	0.036	0.25
X788604		2.32	11	64	22			50.6	12.05	12.75	7.77	13.15	1.41	0.39	0.036	0.26
X788605		2.31	6	33	10			51.8	12.20	12.55	8.14	12.90	1.40	0.26	0.035	0.26
X788606		2.34	8	29	9			51.1	11.50	12.90	7.98	13.20	1.33	0.14	0.036	0.27
X788607		2.17	16	27	11			51.1	10.30	13.75	7.54	14.15	1.15	0.11	0.039	0.29
X788608		2.36	5	30	11			51.6	10.30	13.90	7.60	14.25	1.18	0.16	0.039	0.28
X788609		2.15	13	29	12			51.6	10.35	14.60	7.37	14.95	1.23	0.19	0.040	0.30
X788610		2.36	6	27	9			51.3	10.20	13.85	7.49	14.25	1.18	0.15	0.039	0.28
X788611		2.26	13	36	13			51.8	11.80	13.20	8.04	13.30	1.36	0.23	0.036	0.27
X788612		2.10	5	26	10			50.2	11.25	12.75	7.80	13.05	1.14	0.21	0.035	0.27
X788613		2.59	6	20	10			51.2	11.15	13.15	7.59	13.60	1.21	0.22	0.036	0.27
X788614		2.28	3	24	8			50.5	10.65	13.55	7.30	14.30	0.99	0.22	0.039	0.28
X788615		2.18	6	31	10			49.5	10.75	13.20	7.47	13.85	1.14	0.26	0.037	0.28
X788616		2.29	7	33	8			53.8	12.05	11.05	6.83	11.45	2.02	0.27	0.030	0.24
X788617		2.14	7	39	12			54.5	12.10	11.00	6.85	11.45	2.12	0.38	0.031	0.24
X788618		2.14	9	56	17			50.2	11.55	12.85	7.13	13.40	1.24	0.39	0.038	0.26
X788619		0.08	326	3580	854	16350	47200	32.8	10.30	27.1	5.06	7.00	1.62	0.39	0.051	0.94
X788620		2.16	6	22	10			57.7	12.45	9.64	6.21	10.05	2.38	0.29	0.026	0.22
X788621		2.43	6	35	11			49.4	12.00	12.30	7.65	12.90	1.42	0.37	0.034	0.28
X788622		2.06	6	39	10			51.0	12.35	11.45	7.55	12.00	1.77	0.25	0.031	0.26
X788623		2.31	2	29	13			50.7	11.70	12.20	7.55	12.85	1.47	0.38	0.034	0.26
X788624		2.26	3	31	10			50.4	11.60	12.15	7.75	13.00	1.50	0.42	0.035	0.27
X788625		2.17	3	27	11			56.2	13.70	9.05	6.31	9.36	2.54	0.39	0.026	0.27
X788626		2.27	3	31	9			49.8	13.30	11.40	8.17	11.95	1.61	0.46	0.032	0.26
X788627		2.35	7	64	14			51.2	13.00	10.95	7.61	11.45	1.76	0.38	0.031	0.26
X788628		2.08	7	43	10			51.7	12.70	11.00	7.46	11.75	1.76	0.46	0.031	0.27
X788629		2.30	6	40	14			51.0	12.45	11.10	8.39	11.80	2.06	0.27	0.031	0.24
X788630		2.22	8	48	13			51.9	13.00	10.35	7.88	10.85	1.93	0.45	0.028	0.23
X788631		2.19	7	38	12			49.1	12.80	11.85	8.13	12.30	1.65	0.29	0.032	0.25
X788632		2.17	7	32	11			49.0	11.20	12.50	7.58	13.25	1.38	0.35	0.035	0.27
X788633		2.12	11	62	18			50.4	16.20	8.46	8.31	9.46	2.24	0.67	0.022	0.14
X788634		2.22	8	18	5			53.3	16.05	7.72	8.82	9.32	2.59	0.55	0.023	0.11
X788635		2.12	6	27	12			50.4	11.10	13.15	7.67	14.10	1.22	0.31	0.037	0.26
X788636		0.08	77	617	320			46.6	12.65	20.7	6.09	6.73	2.18	0.64	0.033	1.23

***** 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: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	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	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
X788599		0.05	0.01	0.02	0.01	29.6	98.20	7.63	0.01	59.2	0.8	<10	0.26	<0.05	<0.03	<0.03
X788600		0.20	0.01	0.02	0.01	0.85	100.22	0.05	0.13	66.8	3.8	270	1.05	0.62	0.47	0.23
X788601		0.19	0.02	0.02	0.01	0.82	98.35	0.06	0.09	61.2	3.6	250	0.87	0.62	0.45	0.19
X788602		0.18	0.02	0.02	0.01	0.86	98.47	0.05	0.12	73.6	4.1	240	1.03	0.59	0.47	0.22
X788603		0.20	0.02	0.02	0.01	1.03	99.38	0.06	0.11	61.1	3.2	270	0.97	0.70	0.44	0.22
X788604		0.20	<0.01	0.02	0.01	1.96	100.61	0.05	0.07	64.2	3.3	270	1.00	0.68	0.57	0.25
X788605		0.20	0.02	0.02	0.01	1.03	100.83	0.05	0.08	63.7	3.2	260	0.99	0.75	0.49	0.23
X788606		0.20	0.02	0.02	<0.01	0.20	98.90	0.04	0.08	45.1	2.9	270	0.64	0.72	0.48	0.25
X788607		0.21	0.02	0.01	<0.01	1.08	99.75	0.06	0.08	38.1	3.0	290	1.26	0.76	0.50	0.22
X788608		0.22	0.02	0.01	<0.01	1.13	100.69	0.07	0.06	47.6	3.0	290	1.04	0.76	0.55	0.22
X788609		0.22	0.01	0.01	<0.01	0.22	101.09	0.04	0.07	49.3	3.2	300	0.67	0.74	0.57	0.25
X788610		0.21	0.01	0.01	<0.01	0.42	99.39	0.04	0.08	45.9	3.4	290	0.78	0.75	0.56	0.24
X788611		0.20	0.02	0.02	0.01	0.41	100.70	0.05	0.07	53.5	2.9	260	0.93	0.68	0.47	0.25
X788612		0.20	0.01	0.01	<0.01	3.00	99.93	0.12	0.06	49.6	2.7	260	1.23	0.64	0.45	0.20
X788613		0.21	0.02	0.01	0.01	2.63	101.31	0.04	0.05	56.2	2.9	270	1.31	0.68	0.42	0.23
X788614		0.20	0.01	0.01	0.01	2.95	101.01	0.08	0.07	56.2	2.7	260	1.37	0.85	0.55	0.29
X788615		0.21	0.01	0.01	0.01	3.45	100.18	0.05	0.04	62.6	2.8	250	0.99	0.76	0.57	0.19
X788616		0.16	0.01	0.02	0.01	2.89	100.83	0.03	0.01	90.7	5.5	210	1.39	0.65	0.57	0.24
X788617		0.17	0.01	0.02	0.01	2.77	101.65	0.04	0.01	108.5	5.5	210	1.33	0.67	0.54	0.27
X788618		0.20	0.01	0.01	0.01	3.41	100.70	0.02	0.06	88.3	3.5	260	1.09	0.75	0.54	0.25
X788619		0.14	0.12	0.02	0.01	6.99	92.54	0.10	8.87	118.5	15.6	350	0.72	1.98	1.13	0.82
X788620		0.14	0.01	0.02	0.01	2.39	101.54	0.02	0.02	102.5	6.7	180	1.23	0.53	0.36	0.36
X788621		0.19	0.02	0.02	0.01	2.83	99.42	0.02	0.02	92.6	3.1	240	1.40	0.74	0.43	0.24
X788622		0.18	0.01	0.02	0.01	2.67	99.55	0.02	0.02	84.3	4.3	220	1.62	0.70	0.46	0.24
X788623		0.20	0.01	0.01	0.01	2.87	100.24	0.02	0.02	95.1	3.7	240	1.30	0.72	0.56	0.23
X788624		0.19	0.01	0.01	0.01	2.81	100.16	0.04	0.06	96.0	3.7	240	1.18	0.77	0.58	0.23
X788625		0.12	0.01	0.02	0.01	2.75	100.76	0.04	0.02	117.5	10.5	180	1.67	0.90	0.56	0.22
X788626		0.18	0.01	0.02	0.01	2.84	100.04	0.05	0.07	114.5	3.3	220	1.40	0.71	0.57	0.30
X788627		0.16	0.01	0.02	0.01	2.82	99.66	0.03	0.06	101.5	4.0	220	1.47	0.79	0.52	0.22
X788628		0.17	0.01	0.02	0.01	2.68	100.02	0.02	0.06	118.0	3.9	220	1.78	0.87	0.66	0.26
X788629		0.18	0.01	0.02	0.01	2.68	100.24	0.02	0.01	93.9	5.7	210	1.80	0.94	0.61	0.27
X788630		0.16	<0.01	0.02	0.01	2.75	99.56	0.02	0.01	121.0	4.5	200	1.89	0.84	0.43	0.29
X788631		0.19	<0.01	0.02	0.01	3.02	99.64	0.02	0.02	85.3	2.9	220	1.22	0.78	0.41	0.21
X788632		0.19	<0.01	0.01	0.01	3.05	98.83	0.02	0.02	71.9	3.5	240	1.03	0.67	0.55	0.23
X788633		0.13	<0.01	0.04	0.02	2.77	98.86	0.03	0.09	145.5	5.4	160	1.67	0.46	0.38	0.26
X788634		0.13	<0.01	0.04	0.01	2.17	100.83	0.04	0.02	126.5	7.5	160	1.78	0.58	0.40	0.32
X788635		0.21	0.01	0.01	0.01	2.11	100.60	0.06	0.06	64.9	3.3	260	0.95	0.79	0.54	0.25
X788636		0.19	0.15	0.03	0.02	1.17	98.41	0.09	1.55	223	25.8	230	0.93	2.56	1.42	1.09

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

Finalized Date: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	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	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
X788599		0.2	0.05	<5	<0.2	0.01	0.6	<0.01	<0.2	0.4	0.08	0.5	0.09	<1	153.0	<0.1
X788600		12.2	0.62	<5	0.3	0.16	2.7	0.08	0.2	2.1	0.47	6.7	0.42	<1	174.5	0.1
X788601		11.6	0.50	<5	0.3	0.14	1.8	0.08	0.2	1.9	0.43	6.3	0.48	<1	171.5	0.1
X788602		11.6	0.67	<5	0.3	0.13	2.2	0.06	0.3	2.1	0.50	7.5	0.55	<1	186.0	0.1
X788603		10.9	0.54	<5	0.3	0.16	1.7	0.08	<0.2	1.7	0.41	7.7	0.49	<1	161.0	0.1
X788604		11.6	0.56	<5	0.3	0.15	1.8	0.08	0.2	1.9	0.42	7.6	0.53	<1	170.0	0.1
X788605		11.6	0.53	<5	0.2	0.15	1.8	0.07	<0.2	1.9	0.39	7.1	0.57	<1	171.5	0.1
X788606		11.2	0.60	<5	0.2	0.15	1.5	0.07	<0.2	1.7	0.36	2.4	0.52	<1	157.0	<0.1
X788607		10.6	0.58	<5	0.3	0.19	1.6	0.09	<0.2	1.8	0.40	3.0	0.57	<1	136.5	<0.1
X788608		10.7	0.59	<5	0.3	0.17	1.6	0.09	<0.2	2.1	0.44	4.3	0.49	<1	140.0	0.1
X788609		11.1	0.60	<5	0.3	0.18	2.1	0.09	<0.2	2.1	0.44	4.2	0.60	<1	142.5	0.1
X788610		10.4	0.59	<5	0.3	0.17	1.9	0.09	<0.2	2.1	0.42	3.5	0.61	<1	138.0	0.1
X788611		11.7	0.56	<5	0.2	0.15	1.4	0.08	<0.2	1.8	0.36	5.8	0.37	<1	163.5	<0.1
X788612		10.9	0.50	<5	0.2	0.16	1.3	0.09	<0.2	1.7	0.32	5.7	0.50	<1	134.0	<0.1
X788613		11.0	0.54	<5	0.2	0.16	1.4	0.08	<0.2	1.7	0.36	6.5	0.49	<1	142.5	<0.1
X788614		11.2	0.70	<5	0.4	0.18	1.3	0.09	0.2	1.6	0.37	5.9	0.56	1	111.0	0.1
X788615		11.8	0.57	<5	0.3	0.16	1.3	0.09	0.3	1.8	0.41	7.9	0.55	<1	104.5	0.1
X788616		13.3	0.61	<5	0.5	0.17	3.0	0.09	1.1	2.6	0.69	7.7	0.55	<1	168.5	0.2
X788617		12.6	0.67	<5	0.9	0.17	2.8	0.10	0.7	2.7	0.68	12.5	0.55	<1	180.5	0.1
X788618		12.2	0.61	<5	0.3	0.14	1.8	0.08	0.3	1.9	0.45	14.5	0.45	<1	115.0	0.1
X788619		12.9	1.91	<5	1.7	0.38	7.3	0.13	5.2	8.9	2.06	10.6	2.15	3	173.5	0.4
X788620		13.2	0.57	<5	0.7	0.15	4.0	0.07	0.8	2.7	0.66	9.4	0.47	<1	172.5	0.1
X788621		12.9	0.57	<5	0.3	0.14	1.4	0.08	0.3	1.9	0.36	12.7	0.45	<1	153.0	0.1
X788622		13.3	0.67	<5	0.4	0.16	2.2	0.07	0.7	2.3	0.53	7.1	0.52	<1	176.0	0.1
X788623		12.5	0.60	<5	0.4	0.17	1.7	0.10	0.3	2.0	0.45	13.2	0.47	<1	152.5	0.1
X788624		13.0	0.74	<5	0.4	0.20	1.6	0.10	0.8	2.5	0.56	14.8	0.65	<1	155.0	0.1
X788625		16.4	0.79	<5	1.5	0.18	5.9	0.10	6.7	4.0	1.15	12.4	0.97	1	219	1.0
X788626		13.7	0.52	<5	0.5	0.18	1.5	0.08	0.9	2.1	0.44	16.0	0.49	<1	181.0	0.1
X788627		13.2	0.69	<5	0.6	0.18	2.0	0.10	1.8	2.1	0.48	13.9	0.57	<1	175.5	0.3
X788628		13.3	0.71	<5	0.9	0.19	2.1	0.12	1.8	2.1	0.51	16.9	0.60	<1	173.0	0.2
X788629		13.2	0.81	<5	0.5	0.19	2.8	0.10	0.9	2.9	0.72	9.5	0.79	1	218	0.1
X788630		13.5	0.73	<5	0.3	0.16	2.1	0.07	0.9	2.5	0.64	16.6	0.71	<1	213	0.1
X788631		13.3	0.71	<5	0.3	0.17	1.5	0.06	0.4	1.7	0.38	10.6	0.53	<1	190.0	0.1
X788632		12.1	0.59	<5	0.3	0.16	1.6	0.07	0.5	1.8	0.44	13.6	0.45	<1	136.5	0.1
X788633		16.5	0.56	<5	0.2	0.08	3.0	0.04	0.4	2.6	0.60	25.1	0.53	<1	325	<0.1
X788634		16.3	0.59	<5	0.4	0.12	4.3	0.05	0.7	3.5	0.90	18.8	0.81	<1	359	0.1
X788635		11.9	0.63	<5	0.3	0.16	1.5	0.08	0.4	2.0	0.43	11.0	0.47	1	144.5	0.1
X788636		16.4	2.96	<5	2.2	0.49	11.7	0.20	7.3	14.3	3.38	16.1	3.08	4	256	0.5

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

Finalized Date: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	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	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
X788599		<0.01	0.08	<0.01	0.24	<5	<1	0.4	0.03	<2	0.6	0.01	<0.005	<0.005	<0.001	0.05
X788600		0.10	0.17	0.08	0.06	198	<1	4.2	0.58	14	0.4	0.01	<0.005	<0.005	<0.001	<0.05
X788601		0.07	0.20	0.08	<0.05	168	<1	3.9	0.50	13	0.5	0.01	<0.005	<0.005	0.001	<0.05
X788602		0.11	0.18	0.07	<0.05	164	<1	3.9	0.45	10	0.4	0.01	<0.005	<0.005	<0.001	<0.05
X788603		0.10	0.14	0.08	<0.05	171	<1	4.1	0.56	10	0.3	0.02	<0.005	<0.005	0.001	<0.05
X788604		0.10	0.11	0.08	<0.05	181	<1	4.1	0.46	10	0.6	0.02	<0.005	<0.005	0.001	<0.05
X788605		0.11	0.09	0.07	<0.05	177	<1	4.1	0.45	9	0.3	0.01	<0.005	<0.005	<0.001	<0.05
X788606		0.11	0.10	0.07	<0.05	189	<1	4.1	0.48	9	<0.1	<0.01	<0.005	<0.005	0.001	<0.05
X788607		0.09	0.18	0.08	0.37	206	<1	4.4	0.51	10	0.3	0.01	<0.005	<0.005	0.001	<0.05
X788608		0.09	0.13	0.07	0.11	205	<1	4.4	0.50	9	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788609		0.10	0.10	0.09	0.08	220	1	4.5	0.55	10	0.1	0.01	<0.005	<0.005	<0.001	<0.05
X788610		0.11	0.13	0.08	0.08	209	<1	4.4	0.59	10	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788611		0.09	0.08	0.08	0.06	189	<1	3.9	0.51	8	0.1	0.01	<0.005	0.005	0.001	<0.05
X788612		0.08	0.08	0.08	<0.05	189	<1	4.0	0.52	8	0.2	0.02	<0.005	<0.005	<0.001	<0.05
X788613		0.09	0.10	0.08	<0.05	189	<1	4.2	0.51	9	0.2	0.02	<0.005	<0.005	0.001	<0.05
X788614		0.10	0.14	0.08	0.14	190	<1	4.0	0.47	10	0.2	0.03	<0.005	<0.005	0.001	<0.05
X788615		0.10	0.10	0.08	0.05	186	<1	3.8	0.59	9	0.2	0.05	<0.005	<0.005	<0.001	<0.05
X788616		0.09	1.35	0.07	0.21	161	<1	4.0	0.50	15	0.1	0.04	<0.005	0.005	<0.001	<0.05
X788617		0.10	0.68	0.08	0.20	157	2	4.0	0.55	32	0.2	0.04	<0.005	<0.005	<0.001	<0.05
X788618		0.10	0.19	0.07	0.06	177	<1	3.7	0.50	10	0.2	0.05	<0.005	<0.005	0.001	<0.05
X788619		0.33	0.93	0.16	0.33	81	3	9.2	0.91	63	11.6	0.83	0.136	0.107	0.020	2.55
X788620		0.10	0.69	0.07	0.31	137	<1	3.4	0.41	21	0.1	0.03	<0.005	<0.005	<0.001	<0.05
X788621		0.11	0.15	0.08	0.06	181	4	3.9	0.60	9	0.1	0.03	<0.005	<0.005	<0.001	<0.05
X788622		0.09	0.33	0.08	0.16	169	<1	3.9	0.50	14	0.2	0.03	<0.005	<0.005	<0.001	<0.05
X788623		0.11	0.21	0.08	0.09	176	<1	4.1	0.48	12	0.2	0.03	<0.005	0.005	<0.001	<0.05
X788624		0.13	0.11	0.07	0.07	182	<1	4.8	0.62	13	0.2	0.03	<0.005	<0.005	<0.001	<0.05
X788625		0.12	1.77	0.06	0.69	139	<1	5.2	0.59	53	0.1	0.02	<0.005	<0.005	<0.001	<0.05
X788626		0.11	0.10	0.08	0.14	171	<1	4.1	0.52	15	0.8	0.03	<0.005	<0.005	0.001	<0.05
X788627		0.10	0.49	0.08	0.15	164	<1	4.5	0.57	19	0.1	0.03	<0.005	<0.005	<0.001	<0.05
X788628		0.12	0.32	0.08	0.20	160	<1	4.8	0.68	31	0.1	0.03	<0.005	<0.005	<0.001	<0.05
X788629		0.13	0.65	0.08	0.19	167	1	4.8	0.57	14	0.1	0.03	<0.005	<0.005	0.001	<0.05
X788630		0.12	0.34	0.06	0.21	159	1	4.2	0.51	10	0.4	0.04	<0.005	0.006	0.001	<0.05
X788631		0.08	0.13	0.08	0.11	176	<1	4.0	0.43	8	<0.1	0.02	<0.005	<0.005	<0.001	<0.05
X788632		0.11	0.23	0.07	0.10	187	1	4.3	0.47	11	0.1	0.02	<0.005	<0.005	<0.001	<0.05
X788633		0.10	0.15	0.05	<0.05	96	<1	2.7	0.32	8	0.6	0.05	<0.005	<0.005	<0.001	0.06
X788634		0.11	0.81	0.07	0.19	91	<1	3.3	0.43	12	0.2	0.01	<0.005	<0.005	<0.001	<0.05
X788635		0.09	0.08	0.06	0.06	179	<1	4.1	0.51	8	0.3	0.01	<0.005	<0.005	0.001	<0.05
X788636		0.45	1.35	0.20	0.38	121	3	13.1	1.28	92	5.6	1.15	0.013	0.099	0.008	0.51

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

ALS Canada Ltd.

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

Finalized Date: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

Sample Description	Method / Analyte / Units / LOD	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	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	Se-MS46 Se ppm 0.003
X788599		0.3	<0.01	0.02	<0.5	<0.5	2	1	10	<1	4	4	<1	25	<0.003
X788600		0.3	0.02	0.03	<0.5	1.5	78	69	10	<1	293	<2	38	83	0.212
X788601		0.3	0.02	0.03	<0.5	1.4	78	66	10	<1	291	<2	39	84	0.167
X788602		0.3	0.02	0.02	<0.5	1.3	74	73	10	<1	289	3	36	80	0.193
X788603		0.3	0.04	0.02	<0.5	1.3	79	130	10	<1	346	<2	40	85	0.286
X788604		0.3	0.02	0.02	<0.5	1.4	78	112	10	<1	328	<2	39	85	0.188
X788605		0.3	0.01	0.02	<0.5	1.4	75	66	10	<1	294	<2	35	81	0.157
X788606		0.3	0.01	0.02	<0.5	1.4	80	62	10	<1	303	<2	41	83	0.152
X788607		0.4	0.02	0.03	<0.5	1.6	84	67	10	<1	316	5	44	88	0.163
X788608		0.5	0.02	0.02	<0.5	1.6	85	66	10	<1	326	3	44	90	0.141
X788609		0.3	0.02	0.02	<0.5	1.6	85	71	10	<1	330	<2	44	90	0.159
X788610		0.3	0.02	0.02	<0.5	1.8	85	66	10	<1	319	2	44	89	0.151
X788611		0.3	0.02	0.03	<0.5	1.4	78	69	10	<1	294	<2	39	82	0.183
X788612		0.2	0.02	<0.02	<0.5	1.3	79	61	20	<1	289	4	40	83	0.136
X788613		0.3	0.02	<0.02	<0.5	1.4	79	49	20	<1	290	7	38	84	0.100
X788614		0.3	0.03	0.02	<0.5	1.6	82	76	20	<1	300	<2	42	85	0.135
X788615		0.3	0.02	<0.02	<0.5	1.3	82	60	30	<1	313	3	42	86	0.106
X788616		0.2	0.03	<0.02	<0.5	1.2	68	24	30	<1	261	2	31	72	0.119
X788617		0.2	0.04	0.02	<0.5	1.3	67	41	30	<1	265	3	32	76	0.053
X788618		0.3	0.04	<0.02	<0.5	1.6	78	109	20	<1	312	<2	32	82	0.158
X788619		22.2	4.29	0.15	4.0	4.1	942	>10000	10	3	>10000	15	8	137	17.55
X788620		0.2	0.02	<0.02	<0.5	1.4	60	58	20	<1	221	5	30	63	0.101
X788621		0.2	0.03	<0.02	0.5	1.5	76	76	20	<1	288	<2	34	79	0.077
X788622		<0.2	0.04	<0.02	<0.5	1.5	69	66	20	<1	266	<2	34	73	0.042
X788623		0.3	0.03	0.02	<0.5	1.5	75	71	20	<1	281	5	33	75	0.070
X788624		0.2	0.02	0.02	<0.5	1.5	74	61	20	<1	286	<2	38	71	0.129
X788625		0.3	0.02	0.02	<0.5	1.0	57	26	30	<1	211	<2	25	55	0.046
X788626		0.3	0.03	0.02	<0.5	1.5	69	65	20	3	258	<2	28	67	0.172
X788627		0.3	0.04	0.02	<0.5	1.2	68	77	20	<1	263	<2	26	66	0.146
X788628		0.3	0.04	0.03	<0.5	1.4	68	66	20	<1	267	3	29	65	0.150
X788629		0.2	0.05	<0.02	<0.5	1.5	68	27	30	1	272	5	28	64	0.014
X788630		0.3	0.07	0.03	<0.5	1.1	65	59	20	<1	256	<2	32	65	0.054
X788631		0.2	0.03	<0.02	<0.5	1.6	75	59	20	<1	287	<2	28	75	0.067
X788632		0.3	0.03	0.02	<0.5	1.9	80	74	20	<1	306	4	39	82	0.085
X788633		0.8	0.06	0.03	0.5	1.2	60	118	20	<1	284	2	18	63	0.369
X788634		0.2	0.01	0.02	<0.5	1.1	52	37	10	<1	222	3	24	57	0.065
X788635		0.3	0.02	0.02	<0.5	2.0	83	105	10	<1	312	5	43	86	0.171
X788636		7.9	0.95	0.15	2.4	3.3	116	4590	20	4	4480	25	12	106	4.42

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

Finalized Date: 18-JAN-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18327963

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			