ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: JEAN PAUL VIENNEAU
525 SECORD STREET
ESPANOLA ON P5E 1L9

Finalized Date: 17-SEP-2021
Account: JPVNVMAK

CERTIFICATE SD21227025

This report is for 3 samples of Rock submitted to our lab in Sudbury, ON, Canada on 27-AUG-2021.

The following have access to data associated with this certificate:

JEAN PAUL VIENNEAU		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
DISP-01	Disposal of all sample fractions
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61r	4A multi-element ICP-MS + REE	
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:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS SD21227025

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	CRU-QC Pass2mm % 0.01	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01
1A		0.57	91.5	82.3	0.300	<0.005	0.001	0.23	7.37	50.2	540	1.94	0.85	1.47	0.08	34.5
1B		1.03			0.004	<0.005	<0.001	0.02	4.82	2.9	160	0.57	0.08	1.10	0.08	7.18
2A		0.31			0.015	<0.005	0.002	0.20	4.52	17.9	190	0.63	1.73	10.75	<0.02	27.3

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	Analyte	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05
1A		71.5	115	2.78	2830	8.68	25.4	0.09	2.4	0.477	2.04	13.6	34.9	2.47	1320	0.90
1B		31.2	45	0.89	725	8.26	17.20	<0.05	0.4	0.136	0.58	3.3	34.5	2.78	1400	0.20
2A		162.0	65	0.68	150.5	9.08	9.56	0.05	1.6	0.037	0.59	13.6	16.9	0.90	1940	0.66

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	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
1A		0.82	17.4	115.5	1380	5.2	103.0	<0.002	0.55	0.98	45.8	5	2.7	116.5	1.02	0.51
1B		0.15	2.8	67.7	270	2.3	30.1	<0.002	0.11	0.35	15.6	<1	0.6	88.5	0.17	<0.05
2A		2.26	4.2	42.2	450	3.6	30.8	<0.002	2.54	0.54	11.6	2	0.9	238	0.34	0.46

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Sample Description	Method Analyte Units LOD	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01
1A		1.96	1.315	0.70	1.3	448	7.6	29.2	127	89.7	5.90	3.14	1.41	5.53	1.16	0.33
1B		0.36	0.231	0.20	0.2	212	1.8	5.0	131	15.4	1.04	0.55	0.27	1.00	0.20	0.07
2A		5.31	0.242	0.20	2.0	88	0.5	15.6	41	57.0	2.48	1.45	0.54	2.26	0.51	0.19

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Sample Description	Method Analyte Units LOD	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
1A		20.1	4.32	4.87	0.89	0.42	2.59
1B		4.2	0.93	0.96	0.16	0.08	0.50
2A		12.5	3.05	2.30	0.38	0.19	1.27

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CERTIFICATE OF ANALYSIS SD21227025

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61r

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

CRU-31	CRU-QC	DISP-01	LOG-22
PUL-31	PUL-QC	SPL-21	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

ME-MS61r	PGM-ICP23