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: 4-AUG-2021
Account: JPVNVMAK

CERTIFICATE SD21181374

This report is for 2 samples of Rock submitted to our lab in Sudbury, ON, Canada on 14-JUL-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-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61r	4A multi-element ICP-MS + REE	

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 SD21181374

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	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	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01
Sample #1		2.30	0.06	5.04	4.7	40	0.49	0.06	1.87	0.03	23.4	32.5	87	0.62	151.0	9.27
Sample #2		2.92	0.01	6.20	1.9	50	0.42	0.05	1.93	0.02	18.85	48.5	73	1.24	85.0	13.60

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Sample Description	Method Analyte Units LOD	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5
Sample #1		16.80	0.08	3.1	0.057	0.11	10.8	15.5	2.17	1080	4.06	1.20	17.2	86.7	1470	3.0
Sample #2		25.3	0.09	2.9	0.059	0.17	8.2	24.8	3.37	1600	3.25	0.72	16.0	83.1	1330	2.1

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Sample Description	Method Analyte Units LOD	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	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
Sample #1		4.4	0.002	0.10	1.28	24.9	2	1.7	40.0	1.03	<0.05	2.64	1.545	0.14	1.2	276
Sample #2		7.2	0.002	0.13	0.85	32.9	2	1.6	29.7	0.96	<0.05	2.28	1.370	0.11	1.1	399

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Sample Description	Method Analyte Units LOD	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	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
Sample #1		1.6	32.1	103	124.5	6.23	3.56	1.80	5.57	1.29	0.40	15.3	3.34	4.40	0.96	0.49
Sample #2		1.6	30.7	157	109.5	5.96	3.46	1.64	5.32	1.25	0.38	13.2	2.80	4.07	0.91	0.48

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Sample Description	Method Analyte Units LOD	ME-MS61r Yb ppm 0.03	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
Sample #1		2.93	0.007	<0.005	<0.001	75.4	98.4
Sample #2		2.82	<0.001	<0.005	0.001		

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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	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