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: 5-JUN-2021
This copy reported on 7-JUN-2021
Account: JPVNVMAK

QC CERTIFICATE SD21118698

This report is for 2 samples of Rock submitted to our lab in Sudbury, ON, Canada on 12-MAY-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
DISP-01	Disposal of all sample fractions
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
ME-ICP61	33 element four acid ICP-AES	ICP-AES
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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QC CERTIFICATE OF ANALYSIS SD21118698

Sample Description / Method / Analyte / Units / LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
STANDARDS															
KIP-19	2.47	<0.005	0.001												
Target Range - Lower Bound	2.28	<0.005	<0.001												
Upper Bound	2.58	0.010	0.002												
MRGeo08				4.8	7.78	36	1140	3.2	2	2.74	2.2	19	101	649	4.05
Target Range - Lower Bound				3.2	6.64	21	920	2.2	<2	2.35	1.1	17	81	586	3.55
Upper Bound				5.6	8.14	45	1270	4.5	5	2.90	3.4	23	102	676	4.37
OREAS 684	0.244	3.77	1.695												
Target Range - Lower Bound	0.232	3.63	1.615												
Upper Bound	0.264	4.11	1.825												
OREAS 905				0.7	7.73	37	2850	2.9	8	0.61	<0.5	15	20	1525	4.12
Target Range - Lower Bound				<0.5	6.67	23	2280	1.9	<2	0.52	<0.5	12	16	1425	3.66
Upper Bound				1.5	8.17	46	3110	4.2	10	0.66	1.4	18	22	1640	4.50
OREAS-45h	0.039	0.088	0.129												
Target Range - Lower Bound	0.038	0.076	0.119												
Upper Bound	0.044	0.098	0.137												
TAZ-20	0.291	<0.005	0.001												
Target Range - Lower Bound	0.283	<0.005	<0.001												
Upper Bound	0.321	0.010	0.002												
BLANKS															
BLANK				<0.5	<0.01	<5	<10	<0.5	2	<0.01	<0.5	<1	1	<1	<0.01
Target Range - Lower Bound				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Upper Bound				1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02
BLANK	<0.001	<0.005	<0.001												
Target Range - Lower Bound	<0.001	<0.005	<0.001												
Upper Bound	0.002	0.010	0.002												

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Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21118698

Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20
STANDARDS																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		20	3.30	30	1.37	585	15	2.08	738	1080	1105	0.31	6	12	324	20
Target Range - Lower Bound		<10	2.79	<10	1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20
Upper Bound		40	3.43	60	1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60
OREAS 684																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		30	2.97	40	0.27	382	3	2.50	10	280	33	0.07	<5	5	165	20
Target Range - Lower Bound		<10	2.58	20	0.24	333	<1	2.15	7		25	0.04	<5	3	140	<20
Upper Bound		50	3.18	70	0.31	418	5	2.65	12		36	0.09	12	7	174	60
OREAS-45h																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<10	<0.01	<10	<0.01	<5	<1	<0.01	1	<10	<2	<0.01	<5	<1	<1	<20
Target Range - Lower Bound		<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20
Upper Bound		20	0.02	20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40
BLANK																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS SD21118698

Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
STANDARDS							
KIP-19							
Target Range - Lower Bound							
Upper Bound							
MRGeo08		0.51	<10	<10	113	<10	833
Target Range - Lower Bound		0.44	<10	<10	97	<10	722
Upper Bound		0.56	20	30	121	30	886
OREAS 684							
Target Range - Lower Bound							
Upper Bound							
OREAS 905		0.12	<10	<10	10	<10	139
Target Range - Lower Bound		0.10	<10	<10	8	<10	122
Upper Bound		0.15	20	30	13	20	154
OREAS-45h							
Target Range - Lower Bound							
Upper Bound							
TAZ-20							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK		<0.01	<10	<10	<1	<10	<2
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2
Upper Bound		0.02	20	20	2	20	4
BLANK							
Target Range - Lower Bound							
Upper Bound							

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Sample Description	Method / Analyte / Units / LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
							DUPLICATES									
ORIGINAL		0.007	<0.005	<0.001												
DUP		0.006	<0.005	<0.001												
Target Range - Lower Bound		0.005	<0.005	<0.001												
Upper Bound		0.008	0.010	0.002												
ORIGINAL		<0.001	<0.005	<0.001												
DUP		<0.001	<0.005	<0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												
ORIGINAL					1.1	8.36	<5	70	1.1	<2	3.15	<0.5	22	136	46	5.12
DUP					0.8	8.47	<5	70	1.1	<2	3.17	<0.5	24	134	46	5.18
Target Range - Lower Bound					<0.5	7.98	<5	50	<0.5	<2	2.99	<0.5	21	127	43	4.88
Upper Bound					1.0	8.85	10	90	1.7	4	3.33	1.0	25	143	49	5.42
ORIGINAL		<0.001	<0.005	<0.001												
DUP		<0.001	<0.005	0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												

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		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		20	0.38	10	2.40	673	<1	4.31	82	1140	<2	0.02	<5	15	157	<20
DUP		20	0.39	10	2.42	681	<1	4.36	83	1170	<2	0.02	<5	15	160	<20
Target Range - Lower Bound		<10	0.36	<10	2.28	638	<1	4.11	77	1090	<2	<0.01	<5	13	150	<20
Upper Bound		30	0.41	20	2.54	716	2	4.56	88	1220	4	0.03	10	17	167	40
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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		DUPLICATES					
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL		0.52	<10	10	134	<10	71
DUP		0.50	<10	<10	136	<10	72
Target Range - Lower Bound		0.47	<10	<10	127	<10	66
Upper Bound		0.55	20	20	143	20	77
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

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

Applies to Method:	CRU-31	CRU-QC	DISP-01	LOG-22
	PUL-31	PUL-QC	SPL-21	WEI-21

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

Applies to Method:	ME-ICP61	PGM-ICP23