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: 7-JAN-2021
This copy reported on 8-JAN-2021
Account: JPVNVMAK

QC CERTIFICATE SD20282968

This report is for 2 Rock samples submitted to our lab in Sudbury, ON, Canada on 2-DEC-2020.

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
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
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 SD20282968

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																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
CDN-CM-34					3.6	6.72	105	530	1.0	8	2.09	1.3	43	246	5840	4.74
Target Range - Lower Bound					2.5	5.88	90	430	<0.5	<2	1.83	<0.5	37	217	5370	4.26
Upper Bound					4.9	7.21	122	610	2.1	8	2.25	2.0	47	267	6190	5.23
EMOG-17					68.0	4.74	595	670	1.8	10	1.92	20.9	756	59	8360	4.84
Target Range - Lower Bound					60.4	4.18	517	310	0.7	<2	1.72	17.7	685	49	7740	4.42
Upper Bound					75.0	5.13	643	440	2.9	10	2.12	22.7	839	62	8910	5.42
G919-10		7.54	<0.005	0.001												
Target Range - Lower Bound		7.12														
Upper Bound		8.04														
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 682		0.076	0.872	0.451												
Target Range - Lower Bound		0.070	0.811	0.416												
Upper Bound		0.081	0.925	0.472												
PK03		5.23	4.47	6.25												
Target Range - Lower Bound		4.73	4.03	5.67												
Upper Bound		5.34	4.55	6.39												
PMP-18		0.317	<0.005	0.001												
Target Range - Lower Bound		0.289	<0.005	<0.001												
Upper Bound		0.327	0.010	0.002												

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QC CERTIFICATE OF ANALYSIS SD20282968

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																
CCU-1e																
	Target Range - Lower Bound															
	Upper Bound															
CDN-CM-34		20	2.72	20	3.61	450	293	0.74	248	1290	22	3.11	6	16	232	<20
	Target Range - Lower Bound	<10	2.51	<10	3.29	399	269	0.66	220	1110	19	2.70	<5	14	204	<20
	Upper Bound	40	3.09	40	4.05	499	331	0.83	271	1370	29	3.32	17	19	251	40
EMOG-17		10	1.61	20	0.96	759	1090	1.08	7680	840	7460	3.27	804	8	215	<20
	Target Range - Lower Bound	<10	1.49	<10	0.86	670	996	0.99	6820	700	6570	2.91	638	6	184	<20
	Upper Bound	30	1.85	40	1.08	830	1220	1.23	8330	880	8030	3.57	874	10	227	50
G919-10																
	Target Range - Lower Bound															
	Upper Bound															
GBM903-13																
	Target Range - Lower Bound															
	Upper Bound															
MP-1b																
	Target Range - Lower Bound															
	Upper Bound															
OREAS 621																
	Target Range - Lower Bound															
	Upper Bound															
OREAS 682																
	Target Range - Lower Bound															
	Upper Bound															
PK03																
	Target Range - Lower Bound															
	Upper Bound															
PMP-18																
	Target Range - Lower Bound															
	Upper Bound															

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STANDARDS											
CCU-1e								210	22.9	0.704	3.02
Target Range - Lower Bound								197	22.1	0.677	2.91
Upper Bound								213	23.7	0.729	3.13
CDN-CM-34		0.52	<10	<10	170	20	197				
Target Range - Lower Bound		0.43	<10	<10	149	<10	176				
Upper Bound		0.55	20	20	184	50	219				
EMOG-17		0.33	<10	<10	76	<10	7630				
Target Range - Lower Bound		0.28	<10	<10	67	<10	6800				
Upper Bound		0.36	20	20	84	20	8320				
G919-10											
Target Range - Lower Bound											
Upper Bound											
GBM903-13								24	2.85	2.11	0.913
Target Range - Lower Bound								22	2.79	2.07	0.901
Upper Bound								26	3.00	2.23	0.968
MP-1b								51	3.16	2.11	17.35
Target Range - Lower Bound								46	2.96	2.02	16.10
Upper Bound								52	3.18	2.17	17.25
OREAS 621								72	0.374	1.400	5.38
Target Range - Lower Bound								66	0.349	1.310	5.04
Upper Bound								72	0.377	1.410	5.40
OREAS 682											
Target Range - Lower Bound											
Upper Bound											
PK03											
Target Range - Lower Bound											
Upper Bound											
PMP-18											
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
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	0.002												
Target Range - Lower Bound	<0.001	<0.005	<0.001												
Upper Bound	0.002	0.010	0.002												
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
Sample # 2															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	0.004	0.007	0.149												
DUP	0.005	0.006	0.158												
Target Range - Lower Bound	0.003	<0.005	0.145												
Upper Bound	0.006	0.010	0.162												
ORIGINAL	<0.001	<0.005	0.002												
DUP	<0.001	<0.005	0.002												
Target Range - Lower Bound	<0.001	<0.005	<0.001												
Upper Bound	0.002	0.010	0.003												
ORIGINAL				1.5	9.40	<5	110	<0.5	7	7.76	1.0	21	31	1740	5.18
DUP				1.5	9.82	<5	110	<0.5	3	7.82	1.2	20	30	1730	5.33
Target Range - Lower Bound				0.9	9.12	<5	90	<0.5	3	7.39	<0.5	18	28	1675	4.98
Upper Bound				2.1	10.10	10	130	1.0	7	8.19	1.7	23	33	1795	5.53

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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																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
Sample # 2																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		20	0.16	<10	1.25	1095	<1	2.39	28	290	2	0.13	<5	27	313	<20
DUP		20	0.17	<10	1.27	1095	<1	2.38	29	310	4	0.13	<5	28	315	<20
Target Range - Lower Bound		<10	0.15	<10	1.19	1035	<1	2.26	26	280	<2	0.11	<5	25	297	<20
Upper Bound		30	0.18	20	1.33	1155	2	2.51	31	330	4	0.15	10	30	331	40

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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											
BLANK								<1	<0.001	<0.001	<0.001
Target Range - Lower Bound								<1	<0.001	<0.001	<0.001
Upper Bound								2	0.002	0.002	0.002
DUPLICATES											
Sample # 2									1.500		
DUP								<1	1.520	0.002	0.006
Target Range - Lower Bound								<1	1.470	<0.001	0.005
Upper Bound								2	1.550	0.003	0.007
ORIGINAL											
DUP											
Target Range - Lower Bound											
Upper Bound											
ORIGINAL											
DUP											
Target Range - Lower Bound											
Upper Bound											
ORIGINAL		0.43	<10	<10	193	<10	131				
DUP		0.43	<10	<10	193	<10	131				
Target Range - Lower Bound		0.40	<10	<10	182	<10	122				
Upper Bound		0.46	20	20	204	20	140				

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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	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:	Cu-OG62	ME-ICP61	ME-OG62	PGM-ICP23