

SUPPLEMENTAL MATERIAL: ROCK AND MINERAL ANALYSES

APPENDIX 1. XRF ANALYSES OF JAB-101L SEMI-PELITE LAYER

X (cm)	SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	MnO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	Rb	Sr	LOI	Total
0.80	73.3	0.539	11.0	6.15	1.86	0.05	1.48	1.11	0.84	0.07	41	137	2.55	98.95
1.70	73.8	0.544	11.2	5.95	1.71	0.04	1.60	1.20	1.06	0.08	56	152	2.30	99.48
2.55	73.6	0.542	11.4	6.05	1.68	0.04	1.14	0.94	1.54	0.07	67	121	2.75	99.75
3.35	73.2	0.544	11.1	5.85	1.62	0.04	0.81	0.73	1.79	0.08	71	102	2.75	98.51
4.20	74.5	0.556	11.1	5.74	1.61	0.04	0.62	0.59	1.89	0.08	73	88	2.90	99.63
5.05	74.3	0.544	11.3	5.79	1.64	0.05	0.54	0.51	1.98	0.08	76	77	2.85	99.58
6.30	74.2	0.542	11.3	5.77	1.59	0.05	0.44	0.42	2.10	0.08	77	73	2.65	99.14
8.30	75.4	0.526	11.2	5.67	1.56	0.05	0.37	0.32	2.15	0.08	78	65	2.45	99.78
10.20	76.2	0.511	10.9	5.51	1.50	0.05	0.32	0.29	2.12	0.08	72	61	2.50	99.98
12.30	75.3	0.503	10.5	5.48	1.45	0.05	0.26	0.25	2.14	0.08	70	61	2.50	98.51
14.20	76.9	0.505	10.6	5.18	1.40	0.05	0.22	0.26	2.12	0.08	72	60	2.35	99.67

Notes : Rb and Sr concentrations in ppm, all other concentrations in wt%. All Fe as Fe₂O₃. LOI = loss on ignition. X is distance from vein margin to center of analyzed rock section. X-ray fluorescence (XRF) analyses done by X-ray Assay Laboratories, Don Mills, Ontario.

APPENDIX 2. JAB-101L MINERAL ANALYSES

	Plagioclase	Garnet*	Chlorite	Muscovite	Biotite
Si	2.609	3.000	2.589	3.151	2.708
Al ^{IV}	1.393	-	1.411	0.849	1.292
Al ^{VI}	-	2.022	1.457	1.867	0.524
Ti	N.D.	0.003	0.005	0.008	0.104
Fe	0.002	2.035	2.841	0.093	1.463
Mg	N.D.	0.146	1.639	0.078	0.751
Mn	N.D.	0.482	0.027	<0.001	0.008
Ca	0.387	0.297	N.D.	N.D.	N.D.
Ba	N.D.	N.D.	0.001	0.006	0.004
Na	0.604	N.D.	0.001	0.078	0.020
K	0.004	N.D.	0.003	0.785	0.831
F	N.D.	N.D.	B.D.	0.020	0.081
Cl	N.D.	N.D.	0.001	0.001	0.006
Wt% Sum	99.66	99.02	88.03	95.04	95.05

Notes : All Fe as FeO. N.D.=not determined. B.D.=below detection. Structural formulas for plagioclase, garnet, chlorite, muscovite, and biotite based on 8, 12, 14, 11, and 11 oxygens, respectively. Compositions determined using the JEOL JXA-8600 electron microprobe at Yale University, employing wavelength dispersive spectrometers, natural and synthetic standards, off-peak and fluorescence-corrected mean atomic number background corrections, and $\phi(\rho z)$ matrix corrections.

*Rim composition.