

Appendix 7

Representative chemical analyses (wt. %) and structural formulae ($O^{2-} = 4$) of olivine from the GJSM and BBM

Occurrence	GJSM	GJSM	BBM	BBM	BBM
Host rock	serpentinite	serpentinite	massive ore	massive ore	massive ore
Sample	S3	S3	S35	S35	S35
SiO ₂	41.51	42.28	41.97	41.76	42.27
TiO ₂	0.00	0.01	0.01	0.01	0.01
Al ₂ O ₃	0.04	0.02	0.00	0.00	0.00
Cr ₂ O ₃	0.01	0.00	0.01	0.02	0.00
FeO ^{a)}	6.57	3.81	4.56	6.97	4.34
MnO	0.10	0.05	0.09	0.13	0.05
NiO	0.46	0.24	0.47	0.48	0.52
MgO	51.44	53.88	53.00	51.08	53.64
CaO	0.05	0.02	0.00	0.01	0.01
Total	100.26	100.63	100.12	100.47	100.84
Si ⁺⁴	1.00	1.00	1.00	1.01	1.00
Ti ⁺⁴	0.00	0.00	0.00	0.00	0.00
Al ⁺³	0.00	0.00	0.00	0.00	0.00
Cr ⁺³	0.00	0.00	0.00	0.00	0.00
Fe ⁺²	0.13	0.08	0.09	0.14	0.09
Mn ⁺²	0.00	0.00	0.00	0.00	0.00
Ni ⁺²	0.01	0.00	0.01	0.01	0.01
Mg ⁺²	1.85	1.91	1.89	1.83	1.90
Ca ⁺²	0.00	0.00	0.00	0.00	0.00
total	2.998	2.995	2.996	2.994	2.997
% Fo	93	96	95	93	96

a) total Fe as FeO