

APPENDIX 3

Representative analysis of epidote; FeO_{total}, total Fe as FeO

Analysis	1	2	3	4	5	6	7	8
Oxides (wt.%)								
SiO ₂	37.64	37.39	38.44	38.53	38.62	37.94	37.61	38.27
TiO ₂	0.50	0.04	0.11	0.09	0.02	0.07	0.04	0.06
Al ₂ O ₃	22.29	21.49	24.91	26.99	27.19	22.48	22.38	23.94
FeO _{total}	13.70	14.76	10.43	8.19	8.05	13.95	13.97	11.76
MnO	0.19	0.23	0.08	0.14	0.17	0.13	0.06	0.00
MgO	0.02	0.01	0.05	0.03	0.04	0.00	0.00	0.00
CaO	23.63	23.50	24.24	24.42	24.29	23.67	23.93	24.14
Na ₂ O	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H ₂ O	1.88	1.86	1.91	1.92	1.93	1.88	1.87	1.90
Total	99.86	99.30	100.16	100.33	100.30	100.16	99.87	100.09
Formulae on the basis of ¹⁸ O								
Si	6.015	6.035	6.045	6.002	6.010	6.042	6.015	6.051
Ti	0.06	0.004	0.013	0.011	0.002	0.009	0.004	0.007
Al	4.199	4.088	4.618	4.955	4.988	4.220	4.219	4.461
Fe ²⁺	1.648	1.793	1.234	0.960	0.942	1.672	1.681	1.399
Mn	0.026	0.031	0.010	0.019	0.023	0.018	0.008	0.000
Mg	0.005	0.003	0.011	0.006	0.008	0.001	0.000	0.000
Ca	4.047	4.063	4.085	4.075	4.050	4.039	4.101	4.090
Na	0.02	0.006	0.000	0.001	0.000	0.000	0.000	0.000
OH	2	2	2	2	2	2	2	2
Total	18.002	18.024	18.016	18.030	18.023	18.002	18.030	18.010