

Appendix 4 Table A1. Analyses of K-feldspar in sample 12033,634-34.

SiO ₂	65.1	62.2	62.6	62.9	62.9	63.5	63.2	63.3	63.7	63.8	64.1	64.2	61.6	64.7	61.7
TiO ₂	0.07	0.06	0.05	0.03	0.05	0.03	0.05	0.04	0.03	0.04	0.04	0.03	0.12	0.04	0.03
Al ₂ O ₃	19.1	18.6	18.8	18.8	19.0	19.0	19.0	18.7	18.8	18.9	19.1	19.1	21.3	19.2	20.7
Cr ₂ O ₃	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
FeO	0.72	0.44	0.57	0.5	0.66	0.83	0.70	0.44	1.59	0.61	0.13	0.30	0.70	0.32	0.16
MnO	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	<0.03	0.03	<0.04	<0.03	<0.03
MgO	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CaO	0.81	0.42	0.68	0.85	0.92	1.28	1.19	0.96	0.89	1.54	1.82	1.84	3.11	2.54	3.31
BaO	1.24	3.33	2.49	2.28	2.23	2.36	1.99	3.91	2.04	2.8	2.79	2.77	1.97	1.77	2.97
Na ₂ O	1.48	1.29	1.32	1.55	1.50	1.45	1.73	1.43	1.92	1.96	2.22	2.22	2.41	2.68	2.52
K ₂ O	13.0	12.6	12.6	12.1	11.9	11.0	11.2	10.9	10.1	9.76	9.45	9.16	9.21	7.78	7.92
P ₂ O ₅	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Sum	101.6	98.9	99.1	99.0	99.2	99.5	99.1	99.7	99.1	99.4	99.7	99.7	100.4	99.0	99.3

All values are in wt%. “n.a.” means “not analyzed.”

Appendix 4 Table A2. Analyses of ternary and plagioclase feldspars in sample 12033,634-34.

[illegible]

Appendix 4 Table A3. Analyses of high Ca pyroxene, olivine, and ilmenite in sample 12033,634-34.

	HCPx	HCPx	HCPx	HCPx	HCPx	HCPx	Ol	Ol	Ol	Ol	Ol	Ilm	Ilm	Ilm	Ilm	Ilm
SiO ₂	49.0	49.0	48.6	49.2	49.2	48.2	31.0	30.5	30.6	31.4	31.0	<0.02	<0.02	<0.02	<0.02	<0.02
TiO ₂	1.25	1.12	1.37	1.30	1.29	1.32	0.13	0.09	0.11	0.11	0.07	51.5	51.7	51.9	51.5	52.1
Al ₂ O ₃	1.45	1.21	1.56	1.52	1.41	1.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cr ₂ O ₃	<0.02	0.04	0.04	0.03	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
FeO	24.2	24.7	24.7	24.9	24.2	23.0	65.3	65.8	65.7	62.8	65.3	45.1	45.7	46.9	46.8	46.4
MnO	0.36	0.37	0.32	0.36	0.33	0.36	0.83	0.81	0.75	0.73	0.81	0.36	0.39	0.40	0.40	0.39
MgO	5.99	5.49	5.30	5.39	5.97	6.42	3.94	3.83	3.66	5.36	4.48	0.28	0.28	0.24	0.22	0.23
CaO	18.2	18.3	18.3	18.4	18.1	18.3	0.19	0.20	0.16	0.29	0.27	0.08	0.06	0.06	0.06	0.05
Na ₂ O	0.10	0.12	0.08	0.07	0.09	0.12	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
K ₂ O	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.02	<0.02	0.02	<0.01	n.a.	n.a.	n.a.	n.a.	n.a.
P ₂ O ₅	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	<0.02	<0.02	<0.02
Nb ₂ O ₅	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.56	0.5	n.a.	n.a.	n.a.
Sum	100.6	100.4	100.3	101.2	100.6	98.9	101.4	101.2	101.0	100.7	101.9	97.9	98.6	99.5	99.0	99.2

All values are in wt%. “HCPx” refers to high Ca pyroxene. “Ol” refers to olivine. “Ilm” refers to ilmenite. “n.a.” means “not analyzed.”