

TABLE 24.—ANALYSES OF AMPHIBOLES IN GLEN CREEK GABBRO

	1	2	3	4	NOTES TO TABLE
	MP-2	MP-27	MP-24	WM-154	
SiO ₂	42.2	41.0	39.7	42.0	*Fe ₂ O ₃ CALCULATED ASSUMING Fe ³⁺ /(Fe ³⁺ +Fe ²⁺) = 0.15
TiO ₂	3.51	4.61	4.68	3.53	
Al ₂ O ₃	11.0	11.2	12.9	11.0	†ANALYSES ARE BY MICROPROBE AND DO NOT INCLUDE H ₂ O, F, CL.
Fe ₂ O ₃	2.31	2.10	1.63	2.25	
FeO	11.8	10.7	8.54	11.5	ANALYSES (AVERAGES OF SEVERAL IN EACH SAMPLE):
MgO	12.8	12.8	13.0	12.2	
CaO	11.5	11.4	12.3	11.3	1. TITANIAN MAGNESIAN HASTINGSITE FROM OLIVINE-GABBRO (MP-2). OLIVINE Fo ₅₄ .
Na ₂ O	2.10	2.35	2.66	2.18	2. KAERSUTITE FROM AMPHIBOLE-RICH OLIVINE-GABBRO LENS WITHIN ULTRAMAFIC SEGREGATION (MP-27). OLIVINE Fo ₅₈ .
K ₂ O	1.10	1.19	0.99	1.01	
SUM†	98.32	97.35	96.45	96.97	3. KAERSUTITE FROM ULTRAMAFIC SEGREGATION (MP-24). OLIVINE Fo ₇₂ .
Si	6.233	6.113	5.927	6.276	
Al ^{iv}	1.767	1.887	2.073	1.724	4. TITANIAN MAGNESIAN HASTINGSITIC HORNBLLENDE FROM OLIVINE GABBRO DIKE PROBABLY RELATED TO GLEN CREEK GABBRO (WM-154). OLIVINE Fo ₅₂ .
Al ^{vi}	0.141	0.074	0.203	0.211	
Fe ³⁺	0.258	0.235	0.189	0.253	5.000
Ti	0.390	0.517	0.525	0.397	
Mg	2.830	2.841	2.895	2.707	2.000
Fe ²⁺	1.381	1.333	1.066	1.432	
Fe ²⁺	0.076			0.005	0.644
Ca	1.814	1.821	0.122	1.815	
Ca			1.839		0.796
Na	0.110	0.179	0.161	0.180	
Na	0.492	0.500	0.608	0.452	0.653
K	0.208	0.226	0.188	0.192	
Mg(Mg+Fe ²⁺)	0.660	0.681	0.731	0.653	

TABLE 25.—PHLOGOPITE AND BIOTITE ANALYSES FROM GLEN CREEK AND SANDY CREEK GABBROS

	1	2	3	4	5	6	7	8
	MP-2	MP-27	MP-24	WM-152	WM-337	WM-309	WM-359	WM-360
SiO ₂	37.2	37.0	38.2	37.5	37.6	38.3	37.5	38.0
TiO ₂	4.60	6.59	4.80	4.95	4.54	4.07	6.37	5.66
Al ₂ O ₃	15.2	14.6	15.8	14.8	14.6	14.0	13.1	13.3
Fe ₂ O ₃ *	0.73	0.72	0.51	0.66	0.75	0.61	0.93	0.97
FeO*	12.5	12.3	8.72	11.26	12.8	10.4	15.9	16.7
MgO	16.2	15.4	18.5	16.7	16.5	17.8	12.9	12.7
CaO	0.04	0.03	0.13	0.03	0.07	0.04	0.03	0.03
Na ₂ O	0.28	0.52	0.59	0.32	0.61	0.78	0.05	0.10
K ₂ O	9.59	9.07	8.49	9.20	9.02	8.09	9.38	9.19
SUM†	96.34	96.23	95.74	95.42	96.49	94.09	96.16	96.65
Mg/(Mg+Fe)	0.686	0.679	0.782	0.714	0.684	0.743	0.578	0.563

*Fe₂O₃ CALCULATED ASSUMING Fe²⁺/(Fe³⁺+Fe²⁺) = 0.05†ANALYSES ARE BY MICROPROBE AND DO NOT INCLUDE H₂O, F, CL (ABOUT 4-5% IN PHLOGOPITE).

1. PHLOGOPITE IN GLEN CREEK GABBRO (OLIVINE Fo₅₄). (MP-2)
2. TITANIFEROUS PHLOGOPITE IN OLIVINE GABBRO LENS WITHIN ULTRAMAFIC SEGREGATION IN GLEN CREEK GABBRO (OLIVINE Fo₅₈). (MP-27)
3. PHLOGOPITE IN ULTRAMAFIC SEGREGATION IN GLEN CREEK GABBRO (OLIVINE Fo₇₂). (MP-24)
4. PHLOGOPITE IN OLIVINE-BEARING (Fo₆₈) SANDY CREEK GABBRO. (WM-152)
5. PHLOGOPITE IN OLIVINE-BEARING (Fo₆₆) SANDY CREEK GABBRO. (WM-337)
6. PHLOGOPITE IN OLIVINE-BEARING (Fo₆₇) SANDY CREEK GABBRO. (WM-309)
7. TITANIFEROUS BIOTITE IN QUARTZ-BEARING SANDY CREEK GABBRO. (WM-359)
8. TITANIFEROUS BIOTITE IN SANDY CREEK GABBRO WITH INTERSTITIAL "GRANOPHYRE". (WM-360)