

Table II.—Analyses of the Better Grades of Hydromagnesite.

No.		SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	F ₂ O	MgO	CaO	K ₂ O	CO ₂	SO ₂	Cl	H ₂ O above 105°C	H ₂ O below 105°C	Total	Calcium carbonate	Gypsum	Magnesium carbonate plus water of crystallization
1	Deposit at Clinton, Figure 3, locality 3, 0 to 24 inches from surface.....	2.30	0.63	0.13	.....	41.60	0.22	.....	35.88	0.36	trace.	17.35	1.12	79.77	0	0.7	94.9
2	Centre main deposit at Meadow lake, Figure 5, locality 3, 0 to 15 inches from surface.....	4.00	1.36	0.14	0.23	41.38	1.32	0.14	37.67	.....	.....	12.12	1.48	79.84	2.4	.....	90.2
3	Average of five samples, 0 to 2 inches from surface, deposits 3 and 5, Meadow lake.....	1.22	0.67	0.18	0.63	40.56	1.26	.....	35.95	.....	.....	18.00	1.45	99.93	2.3	.....	93.6
4	From east end of easterly deposit Watson lake, Figure 6, locality 5, 0 to 36 inches from surface.....	4.62	0.16	0.16	.....	43.17	1.14	.....	43.64	0.51	trace.	5.26	1.42	100.10	1.4	1.0	91.26
5	From Watson lake, exact locality unknown.....	1.73	0.12	0.07	.....	43.73	.....	.....	37.03	.....	.....	17.79	.....	100.90	0	0	98.55
6	From centre of deposit, lot 178, Riske creek, 0 to 24 inches from surface.....	1.85	0.48	0.20	0.16	41.74	0.17	.....	40.85	0.11	none.	12.98	1.67	100.21	0.2	0.2	95.4
7	Towards southeastern end of deposit, lot 1188, Riske creek, 0 to 26 inches from surface.....	1.22	0.48	0.25	0.09	41.14	0.10	.....	37.70	0.08	none.	17.78	1.28	100.11	0.1	0.2	96.5
8	Atlin hydromagnesite. Average of eight analyses of pure white material.....	1.40	0.66	0.22	0.59	41.10	0.90	.....	35.39	.....	.....	18.36	1.38	100.00	1.6	0	94.16
9	California magnesite. Average of sixteen analyses.....	1.76	0.38	0.36	.....	45.38	0.99	.....	50.63	.....	.....	0.18	.....	99.68	.....	.....	.....

1 to 8. Analyses made in the laboratories of the Department of Mines, Ottawa. Analyses Nos. 1 and 4 by Frederick Baridon; Nos. 2, 6, 7 by A. Sadler; No. 5 by R. A. Johnston, Geol. Surv., Can., Ann. Rept., vol. XI, 1898, p. 111k. No. 8 average of eight analyses by N. L. Turner, Geol. Surv., Can., Sum. Rept., 1915, pp. 53 to 55; in these SiO₂ varied from 0.54 to 3.48, total Al₂O₃, Fe₂O₃, FeO from 0.64 to 4.22, and CaO from 0.26 to 2.04.

9. Calculated from results given in Bull. U.S.G.S. 355 by Frank La Hess, Washington, 1908. Silica ranged to 4.7 and 7.7 per cent in two analyses, lime to 5.3 in one, other variations from the given average are not important.