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ABSTRACT Surface waters of eutrophic bogs (fens) in the North-Siberian (Taimyr) lowland are characterized by hydrocarbonate, sulfate as well as hydro carbonate-sulfate calcium-magnesium composition. They relate to							Recommend to Peers		
the type of oxygen waters, mainly, to the class of neutral weakly alkaline and to the family of ultrafresh and fresh waters and to the kind of waters poor with dissolved organic matter. Natural hydrochemical background of bog ecosystems makes in heavy metals in the first approximation: Co- 0.16, Pb- 0.57, Ni- 4.67 and Cu- 5.94 mkg/L. In most cases the surface waters are not polluted by heavy metals. Bog waters located in immediate closeness from Norilsk mining and smelting industrial complex are polluted by nickel at mid-level.						Recommend to Library			
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[1]	N. Y. Kats, " Bogs of the Globe," Nauka, Moscow, 1971, p. 295.								
[2]	N. I. P' yavchenko, " On Studying Bogs of Krasnoyarsk krai," In: " Paludified Forests and Bogs of Siberia", Press of the USSR Academy of Sciences, Moscow, 1963, pp. 5- 32.								
[3]	" Middle Sibe	eria," Nauka, Moscow,	1964, p. 480.						
[4]	O. A. Dyuzh Region," Na	ikov, V. V. Distler, B. uka, Moscow, 1988, p.	M. Strunin et al., " Geo 279.	blogy and Ore-Bearing	Capacity of Norilsk				
[5]	T. T. Taisaev, " Geochemistry of Taiga-Frozen Land-scapes and Searching the Ore Fields," Nauka, Novo- sibirsk, 1981, p. 136.								
[6]	" Standard M	andard Methods for Analyzing Water," Chemistry, Moscow, 1973, p. 376.							
[7]	Methodical Concentratio 23.	cal Instructions, "Methodology for Performing Measurements of the Mass Sulfate ration in Waters Using The Titrimetric Method with Barium Salt," Rostov-na-Donu, 2006, p.							
[8]	Methodical Potassium C Rostov-na-D	Instructions, " Method concentration in Surfac onu, 2008, p. 14.	ology for Performing e Waters of the Land	Measurements of the Using the Flaming-Pho	Mass Sodium and tometric Method,"				

- [9] "Water Quality. Definition of Cobalt, Nickel, Copper, Zinc, Cadmium, Lead. Flaming Atomic and Absorption Spectro-Photometric Methods," p. 20.
- [10] A. I. Perel' man and N. S. Kasimov, " Geochemistry of Landscape," Astreya-2000 Press, Moscow, 1999, p. 768.

- S. P. Suslov, " Physical Geography of the USSR," Asian Part. State Education Pedagogical Press, Vol. II, Moscow, 1954, p. 711.
- [12] O. A. Alekin, " General Hydrochemistry," Hydrometeo Press, Leningrad, 1948, p. 206.
- [13] O. A. Alekin, " Essential Principles of Hydrochemistry," Hydrometeo Press, Leningrad, 1970, p. 444.
- [14] V. V. Dobrovols' ky, "Essential Principles of Biogeo- chemistry," Higher School Press, Moscow, 1998, p. 413.
- [15] H. J. M. Bowen, " Environmental Chemistry of the Ele- ments," Academic Press, London, 1979, p.