

The ecologico-geochemical assessment of recreational zones of Moscow

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A total of 32 chemical elements in mosses, 33 elements in leaves and 38 elements in soils collected on territory seven Moscow parks (Losiny Ostrov, Victory Park, Ostankino, Sokolniki, Izmailovo, Kuzminki-Lublino and Tsaritsyno) were determined by neutron activation analysis and atomic absorption spectrometry. The high concentrations of some elements in samples indicate significant technogenic impact from the automobile complex, industrial activity and thermal power plants. The ecological and geochemical assessment of the state of three components of the environment applying the total pollution index (TPI) allowed to classify recreational areas of Moscow by the level of pollution and determine the main pollutants. For the three components considered, the level of pollution coincided only at two sites. More than half of the analyzed soils (62%) belongs to a category of high pollution.

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