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THE MONITORING OF ALUMINUM CONCENTRATION IN WATER AND FRESH FOOD IN ORDER TO ESTIMATE THE RISKS ON HUMAN HEALTH

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Abstract

The purpose of this paper is to present an analysis of the data collected by monitoring aluminum concentration in different counties from North East Region of Romania. The monitoring of aluminum concentration in drinking and ground water was conducted over one year (2002), and this case study has been done in the frame of “Transports, Constructions and Tourism Minister” network, from North East region of Romania. In order to estimate the risk on human health, different samples were analyzed by the Spectrofotometry method, based on color reaction of Al³⁺ ion with R erylchromocianin reactive. The likely risks on human health that could arise from aluminum contamination are also described.

Keywords: aluminum, contamination, environment, soil and groundwater pollution, human health risks

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