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EFFECT OF ULTRAVIOLET RADIATIONS ON THE MICROBIOLOGICAL QUALITY OF DRINKABLE GROUNDWATER

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Abstract

In this paper, the effect of the ultraviolet light on various pathogen microbial strains present in drinkable groundwater samples (wells) from Constanța County, Romania (localities Movilița, Topraisar, M. Kogălniceanu) was analyzed. The investigations were conducted in an original UV-C irradiation prototype installation for water samples. The efficiency of this prototype in destroying the pathogen agents present in drinkable groundwater was established by monitoring the physicochemical and microbiological parameters of water, before and after irradiation.

Key words: drinking water, groundwater, pathogen agents, UV irradiation

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