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Environmental Health Risk Posed by Contamination of the Individual Water Wells

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1 **ENVIRONMENTAL HEALTH RISK POSED BY CONTAMINATION**
2 **OF THE INDIVIDUAL WATER WELLS**

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17 **Abstract** *This paper presents the results of analyzes of water samples taken from individual*
18 *water wells intended for supplying households in non-urbanized areas with low population and*
19 *infrastructure density. Relatively high concentrations of harmful pollutants were found in*
20 *ground waters of the examined spots located in the suburban areas which may increase the risk*
21 *of health incidents in exposed populations. Based on long-term measurements carried out in*
22 *individual spots and toxicological data, the individual health risks related to carcinogenic*
23 *effects in humans were assessed, resulting from direct ingestion of such water and from dermal*
24 *contact. Non-carcinogenic hazard levels were determined, as well. In this work a novel*
25 *approach to health risk assessment was proposed. It consists of determining the risks that range*

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