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VARIATION OF PHYSICAL AND CHEMICAL PARAMETERS OF WASTEWATER OF WASTE LANDFILL IN MITROVICA, KOSOVO

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ABSTRACT

Every environmental pollution is associated with its effects on the host environment. Surface water pollution in the Iber River is a challenge posed by the drainage of urban waste landfill. This paper aims to show the variations in the physical and chemical parameters of urban waste water in Mitrovica and the water of the Iber River, as well as the impact of the landfill wastewater on the water quality in the Iber River. In order to achieve the realization of this work, three sampling sites were determined from which water samples were taken for laboratory analysis at different time periods during 2017-2018. The analyzed physicochemical parameters showed the following results: water temperature fluctuated by 15.7 °C until 23.3 °C, pH from 7.5 until 8.2, electrical conductivity by 315 µS/cm until 5010 uS/cm, dissolved oxygen from 1.33 mg/l until 4.41 mg/l, SHKO from 3.3 mg/l until 358 mg/l., nitrites from 0.5 mg/l until 12.7 mg/l etj. The values obtained through laboratory analysis were compared with the values of AI no. 30/2014, on limit values of waste water discharge in the water body (Republic of Kosovo) and the standard for the assessment of the ecological status of surface water in Romania, 2006 (GD 161).

Keywords: Wastewater, variation, parameter, surface, physic-chemical.