



Microelement Exploration Water Flow of Rimmik River

Naser Bajraktari¹, Besnik Baraj^{2,*}, Tahir Arbnesi³, Selim Jusufi³

¹Ministry of Environment and Spatial Planning, Prishtina, Kosova; ²University of Tirana, Albania; ³University of Prishtina, Kosova

Received January 20, 2010; ; Accepted March 13, 2010

Abstract: Compared to the increasing need on qualitative water use, many water flows are subject to a rising pollution by urban and industrial untreated water discharge, and in some cases by incidental run-offs. Besides them, there is also a great impact made by disseminated agricultural pollution and air and soil rinsing after atmospheric rainfalls. The main purpose of this paper is the micro-element exploration in water and sediments, along the water flow of Rimmik River. Some of the heavy metals: Pb, Cu, Ni, Cd, Fe, Zn and Li have been analyzed from the samples obtained in the specific areas. Some of the physical-chemical parameters and macro-pollutants such as: biological oxygen demand (BOD₅), wasted oxygen (OT), ammonia (NH₄⁺), nitrites (NO₂⁻), nitrates (NO₃⁻), sulfates (SO₄²⁻), phosphates (PO₄²⁻), etc. have been also defined. Water and sediment samples have been obtained and treated by the envisaged method under the regulation on standard methods, the fifteenth edition on water and waste water control. Heavy metals in these samples have been assessed using the atomic absorption spectroscopic method (AAS).

Key Words: *Rimmiku, water quality, sediment, water quality indicators, pollution, monitoring, water protection*

* Corresponding: E-mail: naserbajraktari@hotmail.com; Tel: +381 38 200 32 235; Fax: +381 38 200 32 245