

Concentrations of U, Th and K in the River Waters
of Zletovska reka and Vardar

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In order to get some data about the washing of the rocks for which it is known or assumed that have a high contents of naturally radioactive isotopes, the concentration of U, Th and K was determined in a solid residue from the river waters of Zletovska reka and Vardar in Macedonia. X-fluorescence method was used with a Si(Li) detektor and radioisotopic excitation. Liter quantities of river water were evaporated and ~ 0.5 g of material was pressed into a pastile form. Concentrations obtained by the internal standard method are given in the table for four different samples taken at four different places along the river flow.

Table

Sample	Concentration (ppm)		
	K	Th	U
1.	658 \pm 98	2,5 \pm	10,9 \pm 1,4
2	263 \pm 40	1,4 \pm	5 \pm 1
3	619 \pm 69	1,4 \pm	7,9 \pm 1,1
4	682 \pm 68	3,3 \pm	7,5 \pm 1

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