

Variations of Basic Ecological Abiotic and Biotic Indices of the Rivers Ticha and Vrana – Tributaries from the Watershed of Kamchia River for the Period 2001-2006

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Abstract: The rivers Vrana and Ticha are part of the Kamchia's watershed, which is a bigger tributary from the Bulgarian part of the Black Sea. The research of the two rivers is based on the data for biotic and abiotic parameters from NASEM for the period 2001-2006. Standard methods for sampling have been used, and the physical and chemical parameters are measured with apparatuses of WTW. The results show high self-purification capacity of the two rivers, and the main source of phosphates is due to point-source pollutants, but the main source of nitrogen forms – diffuse-source pollutants.

Key words: Kamchia river, nutrients, biotic indices, monitoring, self-purification.