

HODNOTENIE KONCENTRÁCIE ANORGANICKÝCH FORIEM DUSÍKA VO VODNÝCH NÁDRŽIACH VEĽKÁ RICHŇAVA, MALÁ RICHŇAVA A VEĽKÁ VINDŠACHTA

Jaroslav Noskovič¹, Miroslav Jausch², Karol Kočík³ & Jana Beňačková¹

¹ Katedra Environmentalistiky a zoológie, Fakulta agrobiológie a potravinových zdrojov, SPU v Nitre, Tr. A. Hlinku 2, 949 01 Nitra, e-mail: Jaroslav.Noskovic@uniag.sk

² SPŠ S. Mikovíniho, Akademická 11, 969 15 Banská Štiavnica

³ Katedra plánovania a tvorby krajiny, Fakulta ekológie a environmentalistiky v Banskej Štiavnici, Technická univerzita vo Zvolene, Kolpašská 9/B, 969 01 Banská Štiavnica, e-mail: kocik@fee.tuzvo.sk

ABSTRACT

Noskovič J., Jausch M., Kočík K. & Beňačková J. **The Evaluation of Concentration of Nitrogen Inorganic Forms in Water Lakes Veľká Richňava, Malá Richňava and Veľká Vindšachta**

In this paper the results of monitoring of nitrate, nitrite and ammonium nitrogen concentrations in water lakes Veľká Richňava, Malá Richňava and Veľká Vindšachta are presented. The water lakes are situated in protected landscape area Štiavnické vrchy. Collecting of water samples was realized over the years 1999–2003 from the depth 1 m under water surface and 1 m above ground level in the time of spring and autumn circulation and summer water stagnation. As an obtained results showed, concentrations of all monitored inorganic forms of nitrogen were not constant during the research period. Higher N-NO₃⁻ concentrations were ascertained in the spring season compared to summer and autumn period. The highest N-NH₄⁺ and N-NO₂⁻ concentrations were in water lakes in summer season in the depth 1 m above ground level. The influence of tapping water lake Veľká Vindšachta to all monitored inorganic forms of nitrogen concentration in the sample site 1 m above ground level after resoaking of water lake were recorded.

Key words: water quality, inorganic forms of nitrogen, water lakes, Štiavnické vrchy