

About Cd, Fe, Mn and Zn occurrence in “Tăbăcărie” lake ecosystem

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Abstract The aim of this work is to report original results of the total concentration of cadmium, iron, manganese and zinc in the biotope (sediment and water) and biocenosis (different plants and fish) from the “Tăbăcărie” lake, located on the Black Sea coast, Constanta district, Romania. Analyses were performed using the flame atomic absorption spectrometry (Shimadzu AA 6200) after the chemical mineralization of the samples with a Digesdahl device. Biological samples were collected from eight collecting points and include different species of plants (*Lemna sp.*, *Juncus sp.*, *Phragmites sp.*, *Potamogeton sp.*, *Salix sp.*, *Tipha sp.*) and fishes (*Apollonia sp.* and *Cyprinidae sp.*). The found concentrations of four metals in the analysed samples were similar with those from literature.

Keywords: Cadmium, Iron, Manganese, Zinc, FAAS, seaside lake ecosystem, plants, sediments, fishes.
