

P138. METAL ACCUMULATION IN SEDIMENT IN THE ALBANIAN PART OF LAKE OHRID

Enis DALO, Rigerta SADIKAJ, Hazbije SAHITI, Linda GRAPCI-KOTÉORI

University of Tirana Faculty of Natural Sciences Department of Biotechnology Bulevardi "Zogu i Parë" Tirana
Republic of Albania

University of Prishtina Faculty of Mathematical and Natural Sciences Department of Biology Rr. "Nëna
Terezë" p.n. Prishtina Republic of Kosovo

Lake Ohrid shows heavy metal pollution near the sites of the old mines outside Pogradec and this may be a risk to the creatures living in this part of the lake. In this study, it was aimed to investigate of some heavy metals (Cr and Ni) concentration in sediment in the Albanian part of Lake Ohrid and to compare the three sampling points in the aspect of metal accumulation. Three different stations were chosen as sampling points: entry of Pogradec town, former factory of ferro nickel and Lin village. Samples were taken in autumn 2014 and were analyzed using Atomic Absorption Spectroscopy (AAS). The average concentrations of these elements were determined. In all stations there were accumulation of Cr and Ni in sediment and the highest values of two metals (Cr 78.3 ± 26.7 mg/kg, Ni 109.9 ± 26.6 mg/kg) were observed in former factory of ferro nickel point. With this study we came to conclusion that in this lake has the heavy metal pollution based on the accumulation of metals in sediment and the part of lake where was factory of ferro nickel was the most polluted point.

*enisd8@gmail.com