

AN INTEGRATED WATER QUALITY ASSESSMENT OF THE LAKE PAMVOTIS. RESTORATION AND MANAGEMENT SCENARIOS.

KAGALOU If¹, TSIMARAKIS G.², KARKABOUNAS S.,² NATSIS L.³

1. Technological Educational Institute (TEI) of Epirus, Dept. of Ichthyology-Fisheries, Lab. of Aqu. Ecosystems, P.O BOX 152, 46100, Igoumenitsa, Greece.
2. Municipal Enterprises of water and wastewater of Ioannina. El. Venizelou 4, Ioannina, 45444 Greece.
3. Municipal Co. of lake Pamvotis, Anatoli, 45500, Ioannina, Greece.

ABSTRACT

Physico-chemical and biological data were used to determine pollution levels in the lake Pamvotis, during 1998-1999. The following parameters were monitored: Temperature, pH, dissolved oxygen, soluble reactive phosphorous, nitrates-nitrogen, ammonium-nitrogen, silica, chlorophyll-a phytoplankton, zooplankton and benthos. Human activities affect significantly the physico-chemical and biological parameters. Restoration management strategy requires reduction of external organic load and control of diffuse pollution.