J. Int. Environmental Application & Science, Vol. 4 (4): 408-412 (2009)

The Determination of Some Pollution Parameters, Water Quality and Heavy Metal Concentrations of Suğla Lake (Seydişehir, Konya)

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Received August 27, 2009; Accepted September 17, 2009

Abstract: Water quality parameters were measured such as pH, dissolved oxygen, turbidity, conductivity, temperature, alkalinity, acidity, chlorine, KOI, BOI, organic substance, sulfate, nitrate, ammonia and concentration of some heavy metal ions (Fe, Cr, Cu, Ni, Zn) from Suğla lake within Konya region. The measurements were carried out in water samples taken from four different stations throughout six months. According to the results, the highest metal concentrations were found from 1. Station with 0.29 mg/l Cr in July 2006, from 2. Station 0. 31 mg/l Cu in May 2006 and from 3. Station with 0.53 mg/l Ni in March 2006. Other some parameters were found an average value of pH 7.898, turbidity 32,456, nitrate 0,118 mg/l. the comparison of the measured parameters and the metal concentration with the water quality index show that the water quality of Suğla Lake can be accepted as third grade irrigation water. Some advices have been given to prevent for the pollution of Suğla Lake.

Key Words: *Water quality, Heavy metals, pollution, Suğla Lake*

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