

Adverse Impact of Al- Khoser River up on Tigris River at Outfall Area

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ABSTRACT

This present study included assessing current pollution of Al-Khoser by heavy metals and bacteria, which is one of the largest seasonal tributaries of the Tigris river in the left bank within Mosul city. The samples were collected from five estuary locations of the khosar river and actuality two samples for each location and through two phases, the first in April and the second in the month of August 2006. The first Samples used in the analysis of heavy elements contained (Zn), (Cd), (Cu), (Co), and (Pb). While the second samples were used in the calculation of the total number of bacteria and measure the concentration of plant nutrients and algal of nitrate and phosphate. The first collected samples used in the analysis of heavy metals showed higher values relative with such elements concentration in the Tigris River. The concentration of cadmium and copper which have on the impermissible limits for globally drinking water, this is resulting in a significant risk to creatures in general. The analysis of bacterial emerged Khosar river water contaminated with bacteria. The interpretation of the results revealed a affection of Tigris River water by Khosar river water and this cause a risk limits within 300 meters down steam its estuary.