

## **A Study the Concentration of Heavy Metals in Water of the Al-Massab Al-AamChannel (Middle Sector) in Iraq**

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**Abstract:**This study was conducted on Al-Massab Al-Aam channel (middle sector) starting from Al-Hillah city up to AL-Nasiriyacity . In this study the heavy elements were specified and their impact on the quality of the of the Al-Massab Al-Aam channel (middle sector).The study covers the effect of the climate on the main outfall drain channel (Middle sector) which is represented by the quantity of rains falling over the area of study as well as the temperature all over the year at an annual rate straining from 1975 up to 2011, in addition to the evaporation during the above cited years.The heavy elements under this are Zinc "Zn" lead "Pb" copper "cu " Nickel "in" and cadmium . The study has revealed that the study area, namely the main outfall drain channel (Middle sector) is not polluted with the Zinc, nickel and cadmium elements. The concentrations of each element is 0 or Nil, while the concentration of lead was ranging from (0.04 - 0.086 ppm), with an average amounting at 0.051.These values show that the lead concentration in the Al-Massab Al-Aam channel (middle sector)is hazardous and poisoning.

The copper concentration rate was ranging from0 –0.06ppm) with an average amounting at 0.021.

Through the above cited values it appears that the main outfall drain channel (Middle sector) is not polluted with the copper element.

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