

## **Study of Some Physiochemical Properties of Ain Kaam Water Lagoon and Assessing Their Suitability for Human Use and Irrigation**

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**Abstract :** In this research some physiochemical properties represented by temperature, pH, total hardness (TH), electrical conductivity (EC), total dissolved solids (TDS), chloride and hardness of calcium (Ca-H) and magnesium (Mg-H) were measured in the water of Ain Kaam Zliten in Libya (South side of the lagoon). A comparison of water quality with the values adopted internationally was accomplished to demonstrate the suitability for human and irrigation use. The experimental results showed that the values of pH and EC of the studied for water samples did not exceed the allowed range for drinking water. While TDS, TH, (Mg-H) and chloride values have exceeded the acceptable limit for drinking water internationally, calcium (Ca-H) results have shown a decrease in values of all samples except the first sample which record a marginal increase.

**Keywords :** physiochemical properties, Ain Kaam lagoon, Zliten, Libya

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