

HYDROCHEMICAL POLLUTION OF GROUNDWATER IN BADRA- JASSAN BASIN / EASTERN OF IRAQ.

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ABSTRACT

Variation in quality of Surface and Groundwater is changing depends on water position in Hydrological basin. The Topographical and Geological conditions lead an important role in determining the quality of this water to be used for various purposes and the determination of its possible contamination. Badra - Jassan basin is located in Wasit province at the far East of Iraq. According to the Surface and Groundwater hydrochemical study in this basin depending on salinity concentrations as well as the major elements analyzed for nineteen water samples collected from several sites of the basin within the periods of water surplus and water deficit, the salinity and nitrate pollution was identified. The pollution in the two above mentioned parameters was accrued in surface and groundwater unconfined aquifer, while only salinity pollution was determined in the confined aquifer of the Quaternary deposits and Muqdadiyah Formation.