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## Hydro-Geophysical Investigations for the Purposes of Groundwater Artificial Recharge in Wadi Al-Butum Area, Jordan

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### ABSTRACT

In this article, the potential for artificial groundwater recharge of Wadi Al-Butum catchments area - Jordan is studied, using geoelectrical resistivity surveys and hydro geochemical methods with the aim of storing some of surface water during flood events times to be recharged in the groundwater as an essential part of integrated water resources management. The results of geoelectrical surveys show the existence of potential zones of alluvial deposits to store and recharge the groundwater aquifers. The hydro-geochemical modeling results show an overall upgrading of the original groundwater quality could be expected.

### KEYWORDS

VES; Hydro-Geophysics; Artificial Recharge; Wadi-Al-Butum

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