

Accepted Manuscript

The hydrogeochemical and isotopic investigations of the two-layered Shiraz aquifer in the northwest of Maharlou saline lake, south of Iran

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PII: S1464-343X(17)30440-5
DOI: 10.1016/j.jafrearsci.2017.11.017
Reference: AES 3058
To appear in: *Journal of African Earth Sciences*
Received Date: 31 January 2017
Revised Date: 12 November 2017
Accepted Date: 14 November 2017

Please cite this article as: Mehdi Tajabadi, Mohammad Zare, Manouchehr Chitsazan, The hydrogeochemical and isotopic investigations of the two-layered Shiraz aquifer in the northwest of Maharlou saline lake, south of Iran, *Journal of African Earth Sciences* (2017), doi: 10.1016/j.jafrearsci.2017.11.017

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Highlight

- Investigate the reason for the salinity anomaly and the origin of the fresher groundwater in lower depth.
- The shallow aquifer is recharged by Kaftarak karstic anticline and is affected by the saline lake water.
- The deep aquifer is protected from the intrusion of saline lake water due to the presence of the above-mentioned confining layer with lake water fraction of zero

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