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An analytical model for flow induced by a constant-head pumping in a leaky unconfined aquifer system with considering unsaturated flow

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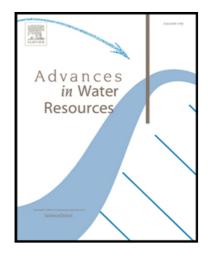
PII: \$0309-1708(17)30528-6

DOI: 10.1016/j.advwatres.2017.05.018

Reference: ADWR 2859

To appear in: Advances in Water Resources

Received date: 18 June 2016 Revised date: 25 April 2017 Accepted date: 19 May 2017



Please cite this article as: Ye-Chen Lin, Ming-Hsu Li, Hund- Der Yeh, An analytical model for flow induced by a constant-head pumping in a leaky unconfined aquifer system with considering unsaturated flow, *Advances in Water Resources* (2017), doi: 10.1016/j.advwatres.2017.05.018

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Highlights

- A leaky unconfined aquifer model for CHT with unsaturated flow is build.
- The effects of model parameters on wellbore flowrate Q are investigated.
- ullet The sensitivity of Q to the change in each of model parameters is also analyzed.
- The equivalence of normalized drawdown of present and CRT solutions is studied.
- The comparison for the present solution with a numerical model has been made.
- The present solution is used to analyze drawdown data and estimate aquifer parameters.

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