

**DRAWDOWN CONTOUR MAPS THAT ARE CAUSED BY WELL PUMPING IN
UNCONFINED AQUIFER UNDER ISLAMIC UNIVERSITY OF INDONESIA AND IN
VICINITY AREA WITH HYPOTHETICAL CASE**

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ABSTRACT

Investigation of groundwater for a region is required to know water table condition in the aquifer below the ground surface. Penetrating the well in aquifer and pumping it water caused the groundwater surface go down. That condition call water table drawdown. Drawdown contour map in the aquifer can be developed using the groundwater flow theory. The results are drawdown contour maps in influence area as the circular and rectangular shape. Maximum drawdown is occurred in area with one well and minimum drawdown in area with four wells. Differences of drawdown contour map pattern generally are caused by shape of influence area.

KEYWORDS: Groundwater, Unconfined Aquifer, Drawdown, Map