

# IMPACT OF LAND USE CHANGES TO GROUNDWATER SURFACE IN SUB URBAN AREAS YOGYAKARTA

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## ABSTRACT

The article is the research results impact of land use to groundwater surface in sub urban areas Yogyakarta. The long term goal of this research is to monitor the availability of groundwater in the next few decades. It is very important to avoid water crisis is likely to occur when soil water conservation is not addressed properly. This study has a specific target or aim to know the impact of land use change in Yogyakarta and surrounding areas and groundwater supplies in the next 20 years. The method or manner of this research using primary and secondary data analysis, such as land use maps decades, groundwater surface depth, and rainfall data. The research sample ground water depth is obtained based on primary data and secondary data. Changes in land use based on different land use map in decades. Rainfall and temperature is one of the benchmarks of environmental change other than the depth of the groundwater. The results of this study indicate there has been a decrease in ground water level is very significant. Many complaints society in many areas which have built large buildings such as hotels, mall, and apartments. To prevent the water crisis in the future needs of disaster mitigation measures related to the scarcity of ground water.

Kata Kunci: *land use, ground water level, mitigation*