

## **Pelacakan Airtanah di Desa Banyumeneng Kecamatan Mranggen Kabupaten Demak Propinsi Jawa Tengah**

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=131467&lokasi=lokal>

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### **Abstrak**

Demak is one of regency are placed in Central Java which has a problem of fresh water availability. The insufficient of water have been recognized in some parts of the region, such as Banyumeneng in Mranggen district. The problem of fresh water in this area is caused by sea water trapped in sedimentary material during sedimentation process, so the trapped groundwater character is brine or brackish. One of the alternatives to overcome water problem is delineated of the prospect area for exploiting of groundwater. The ground investigation activity is to get information about the geology, hydrogeology and subsurface geophysical characteristics which are needed to identification of groundwater aquifer. To obtain those targets are topographic measurement in 1:5000 scale maps, geology and hydrogeology mapping, measurement of soil radioactivity and geoelectrical resistivity are conducted. Based on observation, analysis, evaluation and discussion were identified the existence of potential confined aquifer that happened at the layer sand that is trapped in the impermeable layer of clay, with distribution direction East-West. Potency of aquifer with thw best condition, there are placed on BYM-16 and BYM-05 with the physics characterized in Sand-1 in the resistivity 16-22 ohm m to depth 125-150 m and Sand-2 in the resistivity 11-16 ohmm depth 25-30 m.