

**GROUNDWATER MONITORING ACCORDING TO WATER FRAMEWORK
DIRECTIVE AND AN ASSESSMENT OF TURKEY**

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EXPERTISE THESIS ABSTRACT

Groundwater, in both quantity and quality aspects, is the most important water resource of the earth. Thence, groundwater resources should be managed as private. In order to have prosperous and effective groundwater management, the bodies of groundwater are required to be monitored at every stage.

In this study, groundwater monitoring was studied and investigated both based on the water framework directive and guidance documents. In conclusion part of the study the suggestions are featured which have been made specifically for Turkey.

The design of monitoring programs involves deciding what to monitor, where and when. The Water Framework Directive sets out the requirements for the different groundwater monitoring programs which must include quantitative monitoring network, surveillance monitoring network and operational monitoring network. Additionally, monitoring programs should be designed on the basis of the results of the characterization, the risk assessment procedure and the conceptual model/understanding of the groundwater system. Taking into consideration the fact that Turkey is currently a candidate country for EU membership, the management authorities of the country should establish monitoring networks and programs according to water framework necessities.

Key Words : Groundwater, monitoring, water framework directive, surveillance, operational, conceptual model