DETERMINATION OF PROPERTIES OF GROUNDWATER SAMPLING WELLS AND SAMPLING BASIS

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EXPERTISE THESIS ABSTRACT

At the process of membership of European Union (EU), Turkey has been in position

that nation legislations on water and environment to be adapted. The water framework directive

(WFD) for water (2000/60/EC), as the most important directive of EU acquis, creates a

framework for protection of all kinds of waters such as inland surface waters, transitional

waters, coastal waters and groundwaters. The directive set forth the essential issues of

monitoring groundwater, getting monitoring programs and water sampling. On this context,

adaptation and application of WFD to national legislation of Turkey have been continued.

In this study, in order to get the essential issues on determination of water sampling

wells and water sampling procedures proposed by the national and international regulations

issued by TSE, ISO, ASTM, USGS and EPA have been investigated. A gap analysis which

presents fundamentals of groundwater sampling and sampling wells in accordance with the EU

acquis and current situation of our country is performed to identify shortcomings and

recommendations are presented for the elimination of these shortcomings. A detailed work

about sampling, transportation and preservation procedures has been put forward and a

groundwater sampling protocol which is suitable for geographical and geological formations of

our country has been prepared.

**Key Words:** Groundwater, groundwater sampling, monitoring, sampling well