

**PROPOSED SOLUTIONS FOR COMMON PROBLEMS OF WATER QUALITY
AND TREATMENT IN DRINKING WATER TREATMENT**

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EXPERTISE THESIS ABSTRACT

Based upon the necessity of handling drinking water from the source to the consumer point with a holistic approach, common contaminants in drinking water studied individually to present a comprehensive perspective for drinking water quality, in order to supply healthy and safe drinking water.

Currently monitored contaminants prioritized for health effects, aesthetic or operational consideration. Contaminants known for their direct adverse health effects, categorized as primary contaminants. Limit value determined due to problems arising from aesthetic, operational or distribution network concerns and providing this value is far less than the health consideration limit value, the contaminant categorized as secondary contaminants. Contaminants encountered from the source, distribution network or operational considerations were examined for health effects, analyse or treatment methods and in the light of this information, treatment type limit values were determined according to the treatability of the contaminant.

In addition to review of the currently monitored contaminants in Turkey, standards were searched for the contaminants and plant protection products studied as country specific. The standard calculations were made for the contaminants that were not standardized by international practice and recommendations were made for the determined limit values.

Keywords: drinking water, drinking water quality, contaminants, plant protection products