

Exploring the Chemical Composition of Drinking Water in Residential Area of Kuwait by Applying GIS Technology

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Abstract : The research on the presence of heavy metals and bromate in drinking water is of significant scientific importance. These substances have the potential to pose risks to public health and are subject to regulatory limits outlined by the National Primary Drinking Water Regulations. Through a comprehensive analysis that includes the compilation of existing data and the collection of new data via water sampling in residential areas of Kuwait, you aim to generate maps that depict the spatial distribution of these substances. Moreover, your investigation will involve the utilization of GRAPHER software to explore correlations among different chemical parameters. By employing rigorous scientific methodologies, your research will provide valuable insights for the Ministry of Electricity and Water and the Ministry of Health. These insights can inform evidence-based decision-making, facilitate the implementation of corrective measures, and support strategic planning for future infrastructure activities.

Keywords : heavy metals, bromate, ozonation, GIS

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