Zoning Quality of Jarahi River using NSFWQI and GIS

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Abstract

River water quality assessment and contamination zoning and preparing a clear image of quantitative conditions of surface waters by GIS, makes any management decisions that would cause direct or indirect environment impacts on surface waters of the country, bemade more warily. So this study carried out on evaluating quality zoning of Jarahi River using NSFWQI index and GIS. Thus, sampling was done from 7 studied stations in two seasons (spring and summer of 2012). Calculation of NSFWQI and comparison on standards of Jarahi river was determined. Thus, the path of the river was zonned by GIS. Results of mean NSFWQI in Jarahi river was 44.5 and showed in two sampling seasons, all of sampling stations are categorized in bad class (polluted). Basis on zoning, the highest dangerous was related to Boostan-Shadegan in spring and summer.

Keywords: Zoning, Water quality, NSFWQI index, Jarahi River.