

WQI BASED WATER QUALITY ASSESSMENT IN UDUTOREHALL SUB BASIN, KARNATAKA, INDIA

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ABSTRACT

Safe drinking water is essential to humans and other life forms even though it provides no calories or organic nutrients. Changing climate patterns are threatening lakes and rivers, and key sources that we tap for drinking water are being overdrawn or tainted with pollution. Polluted water is the world's biggest health risk, and continues to threaten both quality of life and public health. Hence it is essential for continuous monitoring of the quality of groundwater so that pollution can be minimized. In the study area the computed WQI value ranges from 28.7 to 257.47 with an average of 76.78. Analysed and WQI is calculated for total 114 samples in the study area. Out of which about 9 samples (7.89%) are excellent, 87 samples (76.31%) are good, 17 samples (14.91%) are poor and only one sample (0.87%) is in Very poor category. The WQI in poor category is mainly due to high nitrate, chloride, bicarbonate in the groundwater. The results obtained from the study indicate that groundwater is suitable for both drinking and domestic purpose in general, except in few cases.

KEYWORDS: Climate, Groundwater, Monitor Water Quality