

## عنوان مقاله:

Quality monitoring and zoning of Karoon River of Khuzestan with CWQI index and presenting management system according to this index

## محل انتشار:

ششمین همایش ملی و نمایشگاه تخصصی مهندسی محیط زیست (سال: 1391)

تعداد صفحات اصل مقاله: 20

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## خلاصه مقاله:

The Karoon River is the primary source of water for a multitude of strategically important Water uses such as drinking, fishing, industrial use, livestock and irrigation and there is a critical need to ensure the security of the Karoon River against any natural or anthropogenic threats and to develop an effective Water Resources Management System. For obtaining these purposes, we identified 10 stations in the length of Karoon River. Actually we created a monitoring network in the study area. in each station we distinguished four sites (4 seasons) and then sampled tree times in each site(or twelve times in each sampling station).sampling was conducted in 2011. All parameters that we sampled including: Turbidity, TDS, SO<sub>4</sub>,chloride, (physicals parameter) and Ca, Mg, As, Cr, Cd and Fe, Zn, Mn, Al (elements) DO, BOD, PH, phosphates, nitrate (Chemical parameters). So, we entered the data in CWQI (CANADIAN WATER QUALITY INDEX) software and analyzed or computed all data that software. Then, according to all indices obtained from software for each sampling station and map of Karoon River, river zoning with GIS was done. At the end of this study, we concluded that, the best status in station 1 is for drinking and the best status for irrigation and livestock is in station 1 and 6, about recreation uses, the best status is in station 1. Generally, according to the results and zonation maps can find that the decrease of water quality in station 1 towards station 10 is. in fact ,from upstream to downstream water quality is decreasing that the main cause of this is agricultural and industrial waste and residential entrance along the river

## کلمات کلیدی:

quality monitoring, CWQI, GIS, karoon river, management system

## لینک ثابت مقاله در پایگاه سیویلیکا:

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