

## عنوان مقاله:

Engineering aspects of Environmental Impacts caused by port construction, a case study in the Sea of Oman, Iran

## محل انتشار:

چهاردهمین کنفرانس ملی هیدرولیک ایران (سال: 1394)

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## خلاصه مقاله:

A combination of field measurements and numerical modeling is used to assess changes of coastal hydrodynamic, coastal sediment transport pattern and shoreline consequent to the construction of Zarabad fishery port as the most significant engineering aspects of Environmental Impacts caused by construction of the port. Current and sediment changes can have effects on ecosystems such as sediment trapping and accumulation of pollutants attached that bind to the sediment. There is an environmental sensitive area Darak near to the port. With regards to the sensitive area; this study can help managers to find appropriate future sustainable development methods in the area of this study. The results show that the rate of shoreline changes decreases with time in the eastern coast of the port and no coastline changes in western coast. Morphological changes are not very effective in ecological sensitive area of Darak but if dredging operation is done in the port, dredging materials will be reached to the sensitive area. Finally, sand bypassing system operation is investigated to restore littoral drift and mitigate coastline changes.

## کلمات کلیدی:

EIA of port development, coastline change, dredging, LITPACK

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/437934>

