

عنوان مقاله:

ONLINE MONITORING OF WATER QUALITY IN SHAHID-RAJAEI HARBOR- PART I: DESIGN AND CONSTRUCTION

محل انتشار:

دوازدهمین همایش بین المللی سواحل، بنادر و سازه های دریایی (سال: 1395)

تعداد صفحات اصل مقاله: 2

نویسندگان:

,Payam Amir-Heidari - *PhD Candidate, Civil Engineering Department, Sharif University of Technology, Tehran, Iran*

,Mohammad Raie - *Assistant Professor, Civil Engineering Department, Sharif University of Technology, Tehran, Iran*

Zohreh Hajisalami - *Coastal and Port Engineering Department, Ports and Maritime Organization (PMO), Tehran, Iran*

Mohammad Hossein Nemati - *Coastal and Port Engineering Department, Ports and Maritime Organization (PMO), Tehran, Iran*

خلاصه مقاله:

Uncontrolled human activities in harbor can cause substantial changes in the physical, chemical and biological properties of port water, and these changes can lead to major impacts to environment and human health. These changes may also increase the corrosion rate of coastal facilities. Concurrent with port organizations in developed countries, the Port and Marine Organization in Iran started a program in order to establish green ports. In order to achieve this objective, the first step is to monitor the environmental parameters of water in harbor basins. Monitoring of water quality parameters, as a basic step in the control of port water pollution, is essential for identification of the trend of these parameters in different locations. Online or continuous monitoring of harbor water quality is of high importance and requires the special hardware and software. This paper is the first part of a two-part article about online monitoring of water quality in Shahid-Rajaei Harbor. This part shares the experience of design and construction of the online monitoring station in Shahid-Rajaei Port, the most important commercial port in Iran, in Persian Gulf. The second part of the article presents the operation and analysis of data [1]. This paper explains the process of selection of the important water quality parameters, configuration of the monitoring station, selection of the electronic sensors, electrical and hydraulic design of the station and related practical issues. This experience can be used in similar projects worldwide.

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