

عنوان مقاله:

ONLINE MONITORING OF WATER QUALITY IN SHAHID-RAJAEI HARBOR– PART II: OPERATION AND DATA ANALYSIS

محل انتشار:

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

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

Online or continuous water quality monitoring of Shahid-Rajaei Harbor is the first technical step of Iranian Port and Marine Organization to move toward establishing green ports. This paper is the second part of a two-part article about online monitoring of water quality in Shahid-Rajaei Harbor. The first part shares the experience of design and construction of the online monitoring station [1], while this part presents the operation and analysis of data. In the first phase of monitoring project in Rajaei Harbor 6 parameters were monitored by electronic sensors using an extractive configuration. The ability of the designed system for continuous measurement of water quality parameters was proved during a successful operation period starting from September 2015. The electronic sensors measured the related parameters, and their performance was analyzed in the initial operation phase of the monitoring station (for about 8 months). The validation of recorded data of sensors was performed by comparison of the data with the results of standard laboratory experiments on standard water samples. Also the intervention of the flow-through system on water quality was measured in this phase. The main objective of the operation in the test period was checking the accuracy and precision of the electronic sensors in the monitoring station. An appropriate electronic sensor has high accuracy and high precision. Accurate means to be close to the target, whereas precise means ability to get the same measured value frequently. These concepts are depicted in Figure 1

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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