

## عنوان مقاله:

Cd and Pb Concentrations in the Surface Sediments of the Asaluyeh Bay, Iran

## محل انتشار:

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## خلاصه مقاله:

Introduction: Heavy metals widely used in the industrial and refining activities are frequently detected in sediments. The main objectives of this research were focused on determining the concentration of Cd and Pb in the sediments of Asaluyeh and compare with the standard. Methods: The concentration of Pb and Cd in the sediments of Nayband Bay area (contaminated area) and Lavar-e Saheli (control area) were measured. In the summer of ۲۰۱۳, the samples of sediment were collected from ۴۰ stations. The samples were digested using the method Yap ۲۰۰۲ and analyzed by atomic absorption spectrophotometer. Results: The median concentration of Pb and Cd in the sediments collected from Nayband ranged from ۳.۵۶ to ۵.۲۵  $\mu\text{g/gdw}$  and ۱.۱۶ to ۱.۴۴  $\mu\text{g/gdw}$ , respectively. The concentrations of Pb and Cd in most of the sediment samples in the study area were higher than the Persian Gulf standards. Conclusion: Therefore, it is essential to use abatement efforts to clean-up the polluted areas in the coastal area of the Asaluyeh Bay and prevent the discharging of the untreated or partially treated wastewater to the Persian Gulf as well

## کلمات کلیدی:

Heavy metals, Cadmium, Lead, Sediment, Asaluyeh, کادمیوم, سرب, رسوبات, عسلویه, خلیج فارس

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