

Accumulation of Heavy Metals (Cu, Ni, Pb, Cd) in the Sediment and Razor Clam, *Solen Roseomaculatus* in the Shorelines of Bushehr Province

Safahieh, Alireza¹; Habibi, Somayyeh²; Zanosi, Hossein Pasha³; Fathtabar, Mehdi⁴

1- Assistant Professor, Marine Biology Department, Faculty of Marine Science and Oceanography, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran. Email: safahieh@hotmail.com

2- MSc in Marine Biology, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran. Email: s.habibi@kmsu.ac.ir

3- Lecturer, Marine Biology Department, Faculty of Marine Science and Oceanography, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran. Email: h.pasha@kmsu.ac.ir

4- MSc in Marine Biology, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran. Email: mehdi_f_bio@yahoo.com

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*Corresponding Author

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Abstract

In order to determine heavy metals contamination in sediment and razor clams from Bushehr intertidal, samples were collected from 5 stations, including Khor Lailatain, Imam Hassan Port, Khor Genaveh, Rig Port and Shif Island. The samples were dried, acid digested and analyzed for their metals content using atomic absorption spectrophotometer. According to the results, the concentrations of Cu, Ni, Pb and Cd in the sediment of the mentioned stations ranged 5.6- 14.75, 19.67-58.72, 7.96-13.92 and 0.68-0.96 μg respectively. The concentration of the same metals in soft tissues of razor clam was 5.36-27.84, 0.24-2.72, 5.64-10.04 and 0.32-1.8 μg while in the shells they ranged 10.75-21.25, 1.36-3.52, 4.28-8.08 and 0.68-0.96 μg respectively. Generally the concentration of the studied metals in both sediment and clams was lower than proposed FAO and USEPA standards.

Keywords: *Sediment, Solen roseomaculatu, Heavy metals, Bushehr Province, Persian Gulf.*
