

## **Assessment of variation in the total organic matter in fish Cage culture in the coastal waters of Qeshm Island (Hormozgan province)**

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Fish farming in cages, new aquaculture than other methods and requires further study, particularly in the field of applied management techniques to reduce damage to the environment is one of the industry. One of the important problems associated with aquaculture in cages is the direct entry of wastewater from fish Cage culture as contamination from organic matter into the marine environment. This research was conducted in 1396 in Hormozgan province and in Qeshm region on one of the fish farms. Monthly sampling from bed depth to water level at 3 stations including 1- center of cage deployment 2- end of cage deployment range 3- 1000 m distance from cage (control). The results of the studies showed that the mean TOM in station 1 had the highest amount and at this station at the end of the growing period. The main reason for the reduction of TOM levels in the study area to increase the organic load, type of substrate, plankton blooms, reduced water flow and increase the amount of biomass can be mentioned.

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