

# **THE EVALUATION OF SMALL PONDS ON THE QUALITY OF WATER IN A RIVER**

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## **ABSTRACT**

The quality of water in Jajrood River and the reservoir of Latian Dam is affected by natural factors and the human habitats in its watershed area. Transfer to a large amount of organic matter and nutrients in runoff occurs. In this research, the results of the quality measurements obtained in the watershed area, which have been done in seven years have been studied and the operation of a small pond which has been made along the the river, has been evaluated as one of the practical methods in controlling the pollution and sediments by performing some experiments.

The results show that in spite of the small reduction in BOD, the degree of water quality indicator (WQI) doesn't change so much. The results of the quality measurements obtained in the watershed of Latian Dam, which have been done in seven years have been studied and the operation of a small pond which has been made along the the river has been evaluated. The results show that the degree of water quality indicator (WQI) doesn't change so much.

**KEYWORDS:** Water Quality, Small Pond, Jajrood, WQI