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Advanced wastewater treatment using two-stage sand filtration

Tabatabaei, Z.^a, Mahvi, A.H.^b, Saeidi, M.R.^b^a Mashhad University of Medical Sciences and Health Services, Mashhad, Iran^b School of Public Health, Tehran University of Medical Sciences, P.O. Box 14155-6446, Tehran, Iran

Abstract

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The efficiency of two-stage sand filtration process in the removal of TSS, BOD₅, COD, NO₂⁻, NO₃⁻, TDS and TP was studied in the pilot scale. The average efficiency of the two-stage filtration process in the removal of TSS, BOD₅ and COD was obtained 89%, 78% and 84%, respectively.

Also the average efficiency of the filtration process in the removal of NO₂⁻, NO₃⁻, TDS and TP was determined 34%, 21%, 11% and 28%, respectively. The investigation indicated that the two-stage sand filtration process played an essential role in improvement of effluent quality characteristics including TSS, BOD₅, COD, NO₂⁻, NO₃⁻, TDS and TP. The simple and readily available technology satisfied water requirements for urban and agricultural reuse especially from viewpoint of suspended solids and organic matter parameters. © EuroJournals Publishing, Inc. 2007.

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