

عنوان مقاله:

Performance Evaluation of Hybrid Septic Tank and Aerated Lagoon Process Efficiency for Landfill Leachate Treatment

محل انتشار:

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خلاصه مقاله:

Background and Objective: In this research, landfill leachate treatment in Karaj city was investigated by a linked septic tank and aerated lagoon. Materials and Methods: At first, characteristics of the leachate were determined. Then a pilot plant with anaerobic-aerobic (Septic tank and Aerated lagoon) parts was installed and started. Results: Results showed that Chemical Oxygen Demand (COD) removal efficiency for septic tank and subsequently to lagoon for influent COD of 1967 mg/L, were AFo1 and FTY mg/L, respectively. The septic tank and aerated lagoon also operated with different flow rates and the best results for septic tank and aerated lagoon obtained in YM.F L/day and 9.W L/day respectively with maximum COD removal efficiency of 91.1%. Conclusion: According to the obtained results, the hybrid system had 9.% COD removal efficiency. Therefore, leachate COD loading could be effectively removed in this .system

کلمات کلیدی: Leachate, Landfill, Aerobic-Anaerobic Treatment, Chemical Oxygen Demand

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