

عنوان مقاله:

Evaluate TDS Removal Using Continuous-Flow Source Wastewater by Reverse Osmosis

محل انتشار:

دومین همایش ملی حفاظت و برنامه ریزی محیط زیست (سال: 1392)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

The objective of this study was to investigate the removal efficiency of Reverse Osmosis (RO) . RO is also capable of very high rejection of microorganisms and synthetic organic .The main objective of pilot-scale testing was to evaluate TDS removal using actual continuous-flow source wastewater and commercial-size membrane elements. Three Ro pilot systems was operated during the study to treat waste water . Pilot-scale tests were performed on a commercial model LFC3 (9500gpd(. RO was terminated at a water recovery of approximately 87.2%. The clean water flux (CWF) was measured before and after the run The salinity (conductivity), NH₄, NO₃ and Na concentration levels are too high for discharge into the water environment. The chloride concentration level is too high for discharge into the sewer .system

کلمات کلیدی:

Wastewater , Reverse Osmosis, TDS, environment

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