

TREATMENT OF HIGH STRENGTH CHEMICAL INDUSTRY WASTEWATER USING MOVING BED BIOFILM REACTOR (MBBR) AND POWDERED ACTIVATED CARBON (PAC) TECHNOLOGY

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ABSTRACT

A new Waste Recycling Facility (WRF) was created at the Sasol coal to liquids facility in Secunda, South Africa with a wastewater treatment system that includes equipment to treat the wastewater and storm water through several steps including equalization, oil removal (gravity separation and dissolved air flotation), lime neutralization/metals precipitation, back-neutralization, fixed-film biological treatment, powdered carbon activated sludge biological treatment, sand filtration and chemical oxidation. It is a unique facility believed to be a first of kind. A pilot study was performed on the fixed film biological treatment unit using the AnoxKaldnes Moving Bed Biofilm Reactor (MBBR) technology for pre-treatment of the wastewater followed by powdered activated carbon (PAC) for additional removal of organic material & nitrification. The start up of the MBBR system was in August 2005 and the waste recycling facility has met beneficial operations since December 2005.

KEYWORDS

Biological treatment, chemical wastewater, moving bed biofilm reactors, powdered activated carbon

INTRODUCTION

The Sasol's coal to liquids complex located in Secunda, South Africa uses processes based on gasification of coal using Lurgi technology and the Sasol Advanced Synthol Fischer-Tropsch Reactors. Wastewaters at the facility are derived from various oily and organic wastes generated in facility unit operations. A new unique Waste Recycling Facility was created with a wastewater treatment system that includes equipment to treat the wastewater and storm water through several steps including equalization, oil removal (gravity separation and dissolved air flotation), lime neutralization/metals precipitation, back-neutralization, fixed-film biological treatment, powdered carbon activated sludge biological treatment, sand filtration and chemical oxidation. The combination of technologies is novel and offers maximum flexibility which enables treatment of effluents highly polluted with organic material.

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