Automotive Assembly Plant

Wastewater for Reuse

Ford Motor company installed a membrane bioreactor (MBR) followed by a Reverse Osmosis System to process treated wastewater for reuse in the plant. The wastewater that is purified for reuse is reused in the cooling towers and on the paint line.

The system is designed to process 400,000 gallons per day. Approximately 70% of that water is purified for reuse in the plant.

The wastewater is pretreated utilizing existing chemical physical treatment for removal of oil and heavy metals. The wastewater is then processed through a membrane bioreactor (MBR) for reduction of the organic content of the wastewater. The MBR permeate is then processed through an Reverse Osmosis System for removal of TDS and trace amounts of COD.

The system was installed and started in 2005.