



Membrane Technologies Canada Inc.

CASE STUDY

Accuride Corporation

Wastewater Treatment For Reuse

Application: Wastewater treatment for reuse.

Capacity: 71,300 gpd (270 m³/d)

Location: Monterrey, Mexico

Commissioned: 1998



Permaflow membrane enables even the bioreactor (MBR) technology most difficult industrial wastewater streams to be reliably treated to produce superior effluent quality. In fact, the final effluent quality is so high that many industries are recycling the treated wastewater within their facilities.

Permaflow technology is an ultrafilter solid liquid separator ensuring the highest quality effluent and the most efficient and effective treatment. MBR effluent provides ideal feed water for spiral-wound RO systems and reduces RO membrane fouling. With hundreds of installations worldwide, the MBR process is proven to provide wastewater treatment applications exceptional industrial in the most challenging.

Accuride Corporation is one of the world's largest manufacturers of rims and wheels for commercial vehicles. As the company expanded, it built a new plant in Monterrey, Mexico, an area that faces extreme water shortages and high water and sewage rates as a result.

Permaflow tubular ultrafiltration was selected for a 71,300 gpd (270 m³/d) wastewater recycling plant to treat the plant's oily wastewater

to a very high quality effluent that could be reused within the facility. The plant utilizes the patented Permaflow membrane bioreactor (MBR) technology followed by reverse osmosis polishing. The unique advantages of the MBR process allow this wastewater to be reused and post-treated by conventional reverse osmosis technology.

TYPICAL TREATED WATER RESULTS

	INFLUENT	MBR EFFLUENT
COD (mg/L)	2,500	<50
TSS (mg/L)	200	<1



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