

Membrane Revolutions in Winery Wastewater Management

An innovative technology with the potential to dramatically improve wastewater treatment and re-use in the beverage industry.

Water Footprint

Wineries create up to 6 gallons of wastewater for every gallon of wine.

Wastewater management and re-use is essential due to economic and environmental drivers.

Winery Wastewater Lagoons

Swirltex has developed a technology that **removes suspended solids** and **recirculates oxygenated water** back to ponds to help with wastewater breakdown.

- **Modular**, easy to install and operate
- **Helps decrease wastewater surcharges**
- Increases **water re-use** capabilities
- More **energy efficient** than traditional lagoon aeration technologies

THE SOLUTION

Swirltex can mobilize a unit to **treat pond wastewater for TSS removal and disinfection**. Oxygenated retentate from the process will also help with the **BOD breakdown** in the pond.

THE TECHNOLOGY

The Swirltex process can significantly **increase flux** through a tubular membrane as well as **reduce fouling** and **energy consumption** through a novel innovation. The benefits include

- Less downtime
- Longer membrane life
- Lower energy requirements
- Reduced operational costs



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