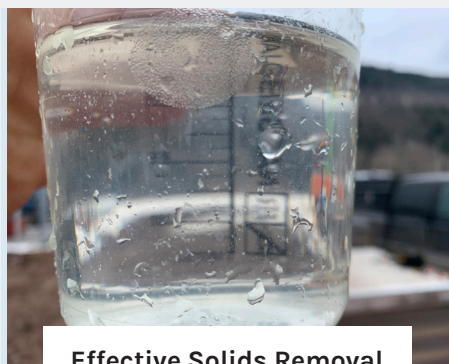


# BIOLOGICAL MBR



**Compact Membranes**  
SMALL FOOTPRINT



**Effective Solids Removal**  
HIGH QUALITY EFFLUENT



**Versatile**  
MATERIALS OF CONSTRUCTION

## Overview

The FRC Membrane Bioreactor (MBR) system method uses submerged membranes rather than traditional clarification to remove bacteria solids in wastewater with biodegradable contaminants. This is done by letting bacteria grow in the wastewater to consume the contaminants, converting them to bacteria solids that can be more easily removed from the wastewater.

## Features

### Directly Wasted Sludge

The MBR process yields clean effluent without the need for an additional solids removal. This allows the generated sludge to be wasted directly from an MBR tank, eliminating a unit operation.

### Small Footprint

The membrane tank in an MBR system generally has a much smaller footprint than a traditional clarifier designed for a biological system of the same size or rate.

### Materials of Construction

FRC's MBR systems can be installed in steel or concrete tanks.

### High-quality effluent

The membranes in the MBR system are very effective at removing suspended solids from water, including biomass. As a result, the effluent from an MBR system results in a much lower suspended solids concentration than a traditional clarification method.

Effluents from MBR systems can be re-used as plant service water, or with some further treatment such as disinfection, can be re-used as potable water or directly discharged into the environment.



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