

Case study MBR BioFlow

OEM Partner

Complete MBR waste water treatment plant from municipal solid waste landfill built by WEHRLE Umwelt GmbH in Germany.

UF-process

The UF system split biomass from a bioreactor process (MBR) into a clear permeate stream and a concentrate back to the bioreactor.

Application: Biomass separation



Berghof HyperFlux products

UF configuration

UF Membranes/ Modules

Module program	HyperFlux I8
Membrane type	66.03
Membrane material	PVDF
Membrane diameter	8 mm
Cut off	30 nm
Module type	MO 83G 66.03 I8
Membrane area	27.2 m ²

UF design

Number of trains	10
Modules per train	5
Total membrane area	1350 m ²
Permeate flow rate	83 m ³ /h
Temperature	30 °C
Permeate flux	80 l/m ² .h
Velocity	4 m/s

UF analysis

Feed:

COD	10.000 - 20.000 mg/l
MLSS	15 g/l

Permeate

COD	xx mg/l
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