Case study MBR BioPulse

OEM Partner

Complete waste water treatment plant built by Haase - Landfill Germany.

UF-process

The separation units consists of:
-Ultrafiltration unit
and after treatment with activated carbon filter

Application : UF system for landfill leachate water treatment

UF configuration

The UF plant split biomass from a bioreactor process into a clear permeate stream and a concentrate back to the bioreactor.

UF Membranes/ Modules

Module program	HyperFlux I8
Membrane type	66.03
Membrane material	PVDF
Membrane diameter	8 mm
Cut off	30 nm
Module type	MO33G 66.03 I8 LE
Membrane backwash	0,5 bar
Membrane area	4,1 m2

UF design

Loops	2
Modules/Loop	4
Total membrane area	2 x 16,2 m2
Velocity	2 m/s
Permate flow rate	2,2 m3/h
Temperature	30 C
Permeate flux	68 l/hm2
Working pressure	3,2 bar
Backwash frequency	20 min.
Backwash time	25 sec

UF analysis

Feed

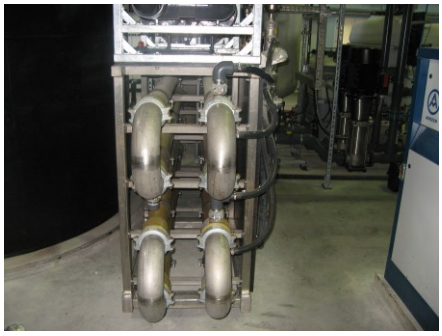
TSS	approx. 13 g/l
COD	2.100 mg/l
pH	7 – 8

Permeate

COD	180 mg/l

Membranes/ Modules

UF unit



Bioreactor

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