

Banvit - Romania Factory Treatment Plant



Plant is in Romania close to Budapest.

Plant Desciption:

- Financed by EU Sapard Programme.
- Full compliance to EU regulations with economy in footage.
- Effluent quality achieved meets the most stringent requirements.
- The MBR contract agreement provided for the process design, specification and supply of flat sheet membrane units.
- Additional services provided were M&E design assistance, inspections during installation, assistance to start-up, commissioning and membrane maintenance advice plus operator and management training..

Status	In operation
Client	Banvit
Commissioned	October 2008
Required discharge quality	EU regulations
Performance	EU regulations
Brief description:	Single flow joined membrane/aeration tank

MBR Atıksu Arıtma Sistemleri Ltd.

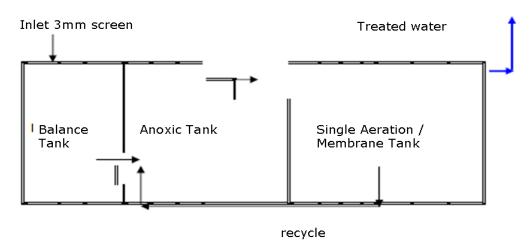
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TANK LAYOUT



Process Description:

Tanks are of concrete construction.

Balance tank feeds process via fine 3mm bi-directional screen into MBR tank.

Single stream treatment process has joint aeration/membrane tank.

Treated effluent flows by gravity to the Clean Water Tank for re-use.

Plant designed to operate automatically with minimal supervision.

Design Requirements		Plant Data			
Influent average loadings:		Maximum daily flow		50 m³/d	
BOD	5,000 mg/l	Average daily flow		50 m³/d	
COD	13,640 mg/l	Peak flow		0,6 l/sn	
TKN	900 mg/l	MLSS aeration tank		12,000 mg/l	
$NH_3 - N$	800 mg/l	Membrane units		1 x ES200	
SS	4,150 mg/l	Membrane area		160 m²	
TDS	5,000 mg/l	Sludge age		28 days	
		Sludge volume		9 m3/d	
Effluent Standards					
BOD	20 mg/l	Current Performance			
Total N	15 mg/l	BOD	<20 mg/l		
Total P	1 mg/l	Ammonia	<5 mg/l		
SS	10 mg/l	N	<15 mg/l		
Parasites	zero	Parasites	zero		

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