

ISKI- Paşaköy Pilot Treatment Plant



Plant is at ISKI Istanbul Paşaköy Treatment Plant.

Plant Description:

- Membrane pilot application at ISKI treatment plants.
- 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	İSKİ – Kuzu İnşaat
Commissioned	2008
Required discharge quality	EU regulations
Performance	EU regulations
Brief description:	Wastewater is fed directly from main inlet to the single membrane/aeration tank

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ISKI- Paşaköy Pilot Treatment Plant

Process Description:

Tanks are steel constructed above ground.

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

Influent Average Loadings:

BOD	300 mg/l
COD	600 mg/l
TKN	45 mg/l
NH ₃ – N	40 mg/l
SS	300 mg/l
TDS	5,000 mg/l

Effluent standards

BOD	5 mg/l
Total N	10 mg/l
Total P	1 mg/l
SS	5 mg/l
NH ₃ –N	2 mg/l
Parasites	zero

Plant Data

Maximum daily flow	125 m ³ /d
Average daily flow	125 m ³ /d
Peak flow	2,7 l/sec
MLSS aer.tank	12- 20,000 mg/l
Membrane units	2 x ES150
Membrane area	240 m ²
Sludge age	25 days

Current Performance

BOD	<5 mg/l
Ammonia	<1 mg/l
TKN	<7 mg/l
COD	<60 mg/l
Parasites	zero

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