

REFERENCE 2006-11

MUNICIPALITY NEAR SOEST, GERMANY,
217 PE



Edge conditions

Municipal Wastewater of 217 PE
High nitrogen concentration
Denitrification und P-Elimination required

Inflow data

CSB 26 kg/d
BSB₅ 10,9 kg/d
P_{ges} 0,48 kg/d
N_{ges} 4,3 kg/d

Effluent requirements

< 90 mg/l
< 25 mg/l
< 55 mg/l
< 5 mg/l

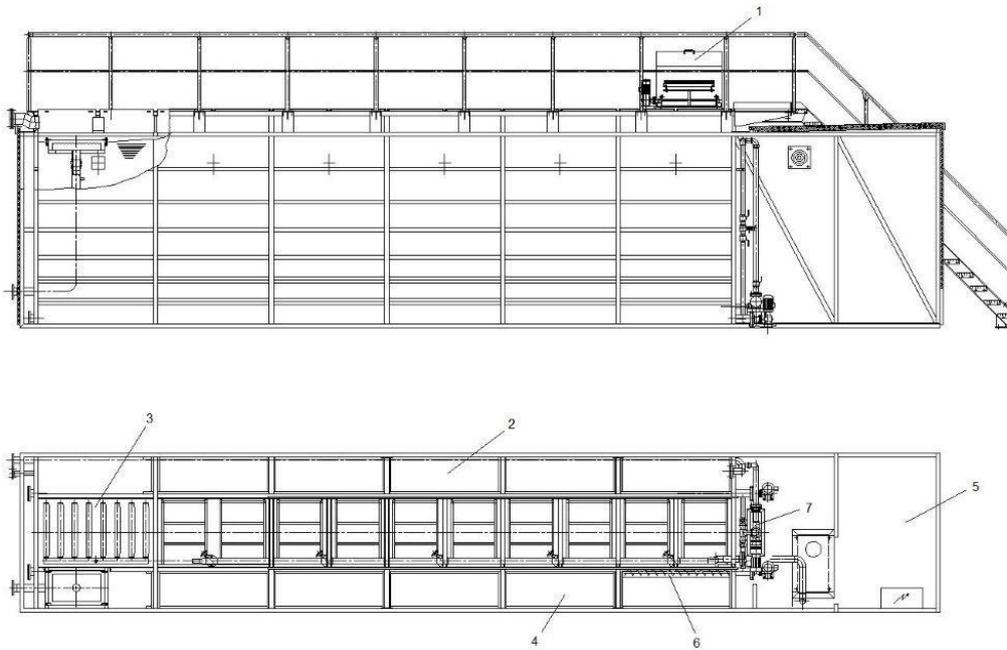
The denitrification is realized by recirculation of treated wastewater into the first chamber of biology. The P-elimination is realized via precipitant .

Effective treatment with an ENVIMAC SFBBR-System

Fixed bed volume	24 m ³
Specific surface	200 m ² /m ³
Surface area	4800 m ²
BOD-Surface load B _{A, BOD5}	7 g BSB ₅ /m ² *d
Nitrogen surface load B _{A, TKN}	1,3 g BSB ₅ /m ² *d
Pre/post sedimentation	14,2 m ³

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SFBBR Mobile Treatment Unit [1 Screen, 2 Presedimentation, 3 Submerged fixed bed, 4 Postsedimentation, 5 Engineer room, 6 Covering, 7 Water and sludge pumps]