

# REFERENCE 1993-5

## INDUSTRIAL WASTEWATER TREATMENT

### TEXTILE PRODUCTION



#### Wastewater situation

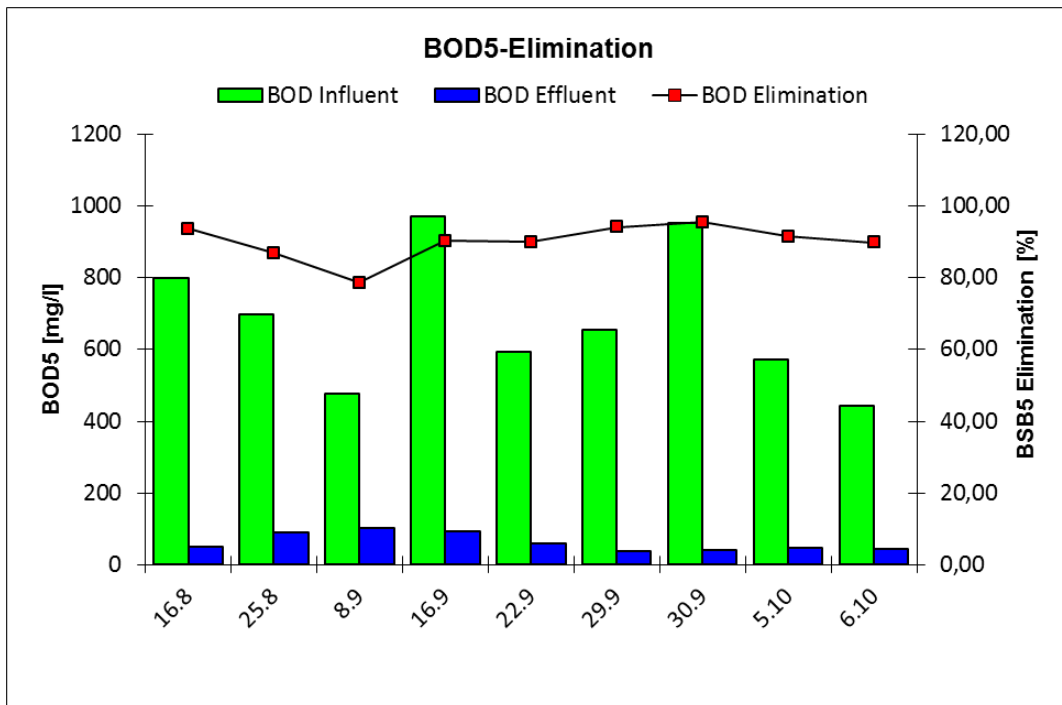
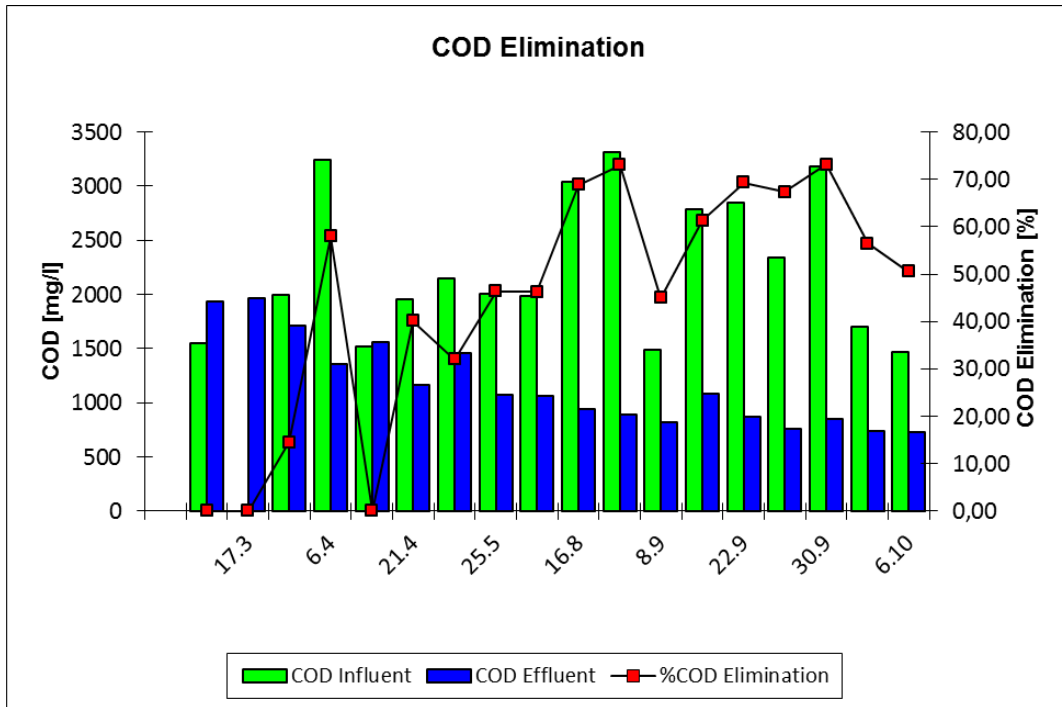
Load removal of the municipal sewage plant with high pollution by textile production plant. The waste water contains badly degradable substances.

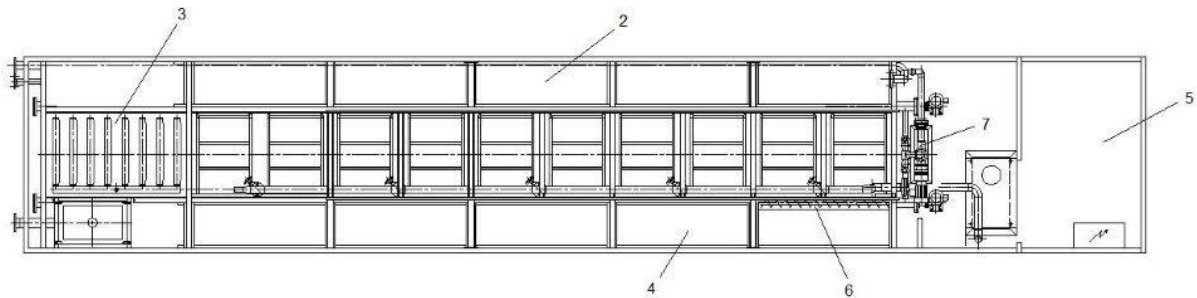
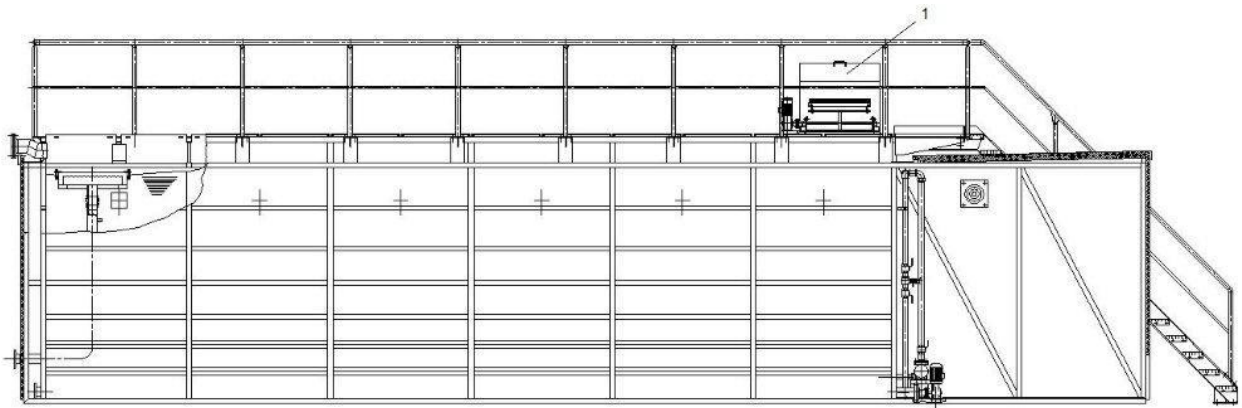
#### Influent

			Elimination
COD	~3000	mg/l	60%
BOD <sub>5</sub>	~800	mg/l	90%
Inflow per hour	~1,5	m <sup>3</sup> /h	
BOD <sub>5</sub> -load/day	28,8	kg per day	

#### Submerged Fixed Bed Biofilm Reactor –ENVIMAC SFBBR-Reactor:

Volume of carrier	15,7	m <sup>3</sup>
Volume of SFBBR Reactor	4,5	m <sup>3</sup>
Specific surface of carrier	100	m <sup>2</sup> /m <sup>3</sup>
BOD-surface load	18,3	g BOD/d*m <sup>2</sup>





**Container-Treatment Plant with SFBBR [1 Sieve, 2 Presedimentation, 3 Aerated Fixed Bed, 4 Final sedimentation, 5 Engine room, 6 Capping ,7 Water and sludge pumps]**