

# Activated sludge process at sewage treatment plant Haynrode

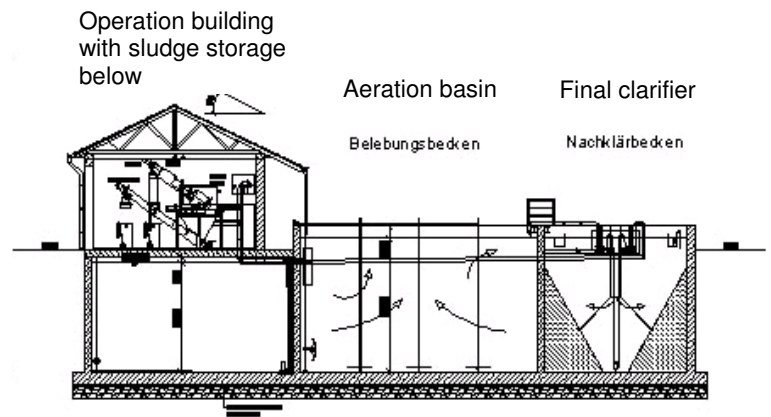
Capacity:  
800 person equivalent  
1.600 m<sup>3</sup>/d

Design:  
The sewage treatment plant consists of a pumping station, an operating building, an aeration basin and two sedimentation basins.  
The operating building is containing all controlling equipment, mechanical treatment and a social room.

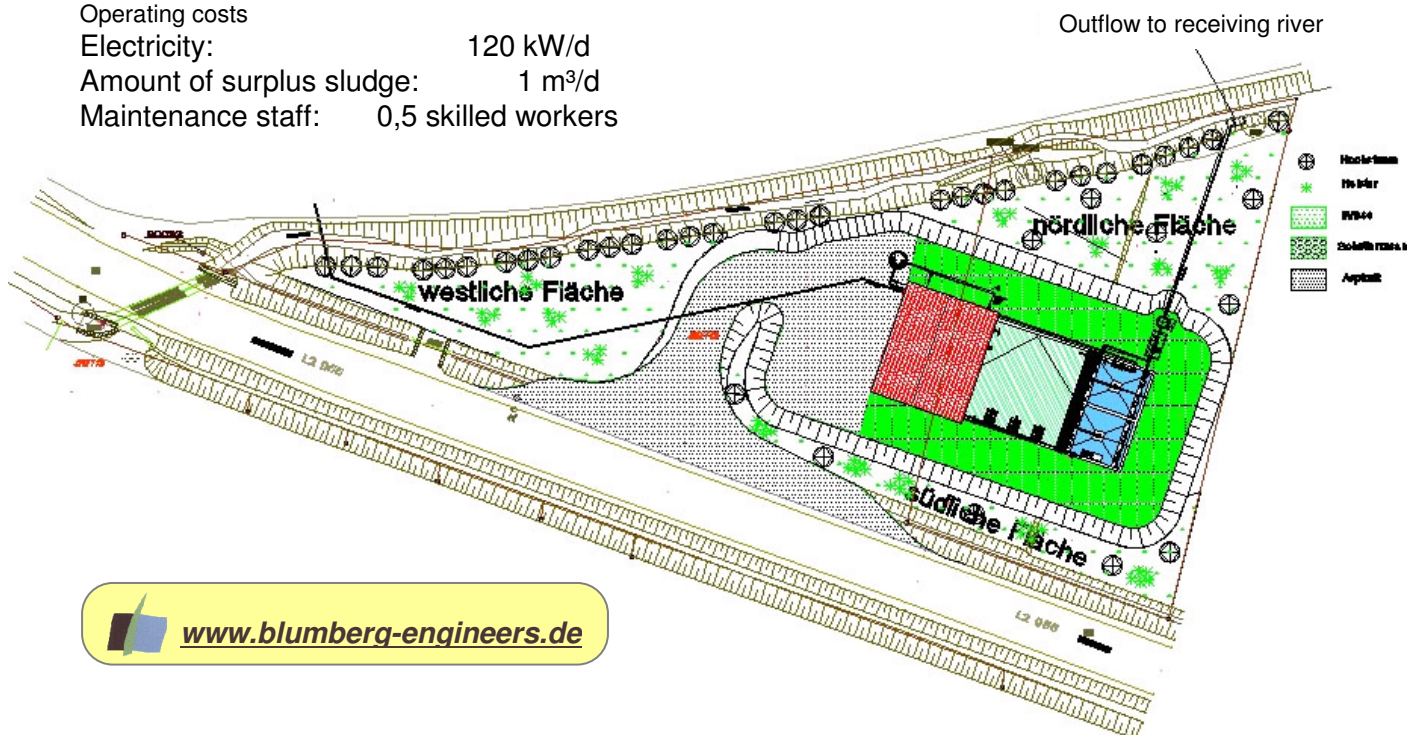



Inflow and outflow parameters  
at water temperatures of 12 °C:

	Inflow	Outflow
COD	546 mg/l	15 mg/l
BOD <sub>5</sub>	220 mg/l	3 mg/l
NH <sub>4</sub> -N	55 mg/l	0,04 mg/l
NO <sub>3</sub> -N		16,2 mg/l
Total N	67 mg/l	20 mg/l
Total P	8,4 mg/l	3 mg/l
pH	8,2	7,3



Operating costs  
Electricity: 120 kW/d  
Amount of surplus sludge: 1 m<sup>3</sup>/d  
Maintenance staff: 0,5 skilled workers



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