



MÜNCHEHOFE SEWAGE TREATMENT PLANT

CHRONICLE

1976

Commissioning of the sewage treatment plant

1985

Introduction of chemical phosphate elimination

1986

Application of combined chemical and biological phosphate elimination

1992

Introduction of mechanical sludge dewatering

1995

Introduction of nitrification with partial denitrification

2000

Modernisation of the aeration tanks completed, commissioning of the upline denitrification stage

PROCESS ENGINEERING

Mechanical and biological sewage treatment with chemical and partially biological phosphate elimination, with nitrification and upline denitrification. The digestion of the sewage sludge takes place in digestion tanks. The digested sludge, dewatered in centrifuges, is recycled in line with closed substance cycle waste management.

TECHNICAL DATA

Treatment capacity:

42,500 m³/day in dry weather

Mechanical treatment:

Four automatic fine screens, one aerated double-chamber long grit chamber, eight rectangular tanks with a total useful volume of 8,000 m³ for the primary sedimentation.

Biological treatment:

Eight double aeration tanks with a total useful volume of 31,000 m³ and fine-bubble surface aeration via ceramic aeration pipes.

Four rectangular tanks with a total useful volume of 13,200 m³ and four round tanks with a total useful volume of 16,000 m³ for the secondary sedimentation.

Sludge treatment:

Three digestion tanks with a total capacity of 24,000 m³. One centrifuge for dewatering of the sewage sludge.

Biogas recycling:

One dry gasholder with a capacity of 5,000 m³, two block cogeneration plant units and two hot water generators. The biogas is used for sludge heating, electrical energy generation and building heating, for the hot water supply to the sewage treatment plant and for the district heat generation.



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