



WANSDORF SEWAGE TREATMENT PLANT

CHRONICLE

1919

Commissioning of the sewage treatment plant with mechanical treatment and downline sewage farms

1919/1925

Construction of an Emscher tank system

1995

Start of planning for the construction of a new sewage treatment plant at the old site

1996

Founding of Klärwerk Wansdorf GmbH

1996

Start of construction of the new sewage treatment plant

1997

Facility management contract with Berliner Wasserbetriebe

1998

Commissioning of the new sewage treatment plant and shutdown of the old treatment plant and sewage farms

PROCESS ENGINEERING

Mechanical and biological sewage treatment. Biological phosphate elimination in combination with nitrification and denitrification. The resulting sewage sludge is digested in digestion tanks, dewatered in centrifuges and recycled in line with closed substance cycle waste management.

TECHNICAL DATA

Treatment capacity:

40,000 m³ /day in dry weather

Mechanical treatment:

Two automatically cleaned fine screen systems, two grit chambers, two round primary sedimentation tanks with a total useful volume of 4,980 m³.

Biological treatment:

Two aeration tanks with a total useful volume of 35,000 m³ and fine-bubble surface aeration via ceramic aeration pipes. Four round tanks with a total useful volume of 20,000 m³ for the secondary sedimentation.

Sludge treatment:

Two digestion tanks with a total capacity of 7,000 m³.
One centrifuge for dewatering of the sewage sludge.

Biogas recycling:

One dry gasholder, storage volume 1,500 m³.
One block cogeneration plant with two units. The biogas is used for the generation of electric power, sludge heating, building heating and for the hot water supply to the sewage treatment plant.



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