



## **SPANDAU WATERWORKS**

*The Spandau waterworks operates in cooperation with the Tegel waterworks.*

### **CHRONICLE**

**1897**

Commissioning of the Spandau waterworks

**1925**

Conversion and expansion to increase the capacity

**1955**

Construction of a horizontal filter well

**1959**

Commissioning of the newly built works

**1978**

Commissioning of a further drinking water treatment plant

**1982**

Commissioning of a groundwater enrichment plant with surface water treatment plant.

**1997**

Shutdown of the high-speed filter plant built in 1959.

### **TECHNICAL DATA**

**Max. capacity:**

160,000 m<sup>3</sup>/day

**Water winning:**

44 vertical wells, 35 to 52 m deep, with underwater motor pumps. Deliveries of the pumps between 100 and 250 m<sup>3</sup> per hour, one horizontal filter well.

**Water treatment:**

Two square aeration chambers with 400 nozzles for aeration of the raw water, one filter hall with ten open double filters. The filter surface area totals 700 m<sup>2</sup>, the filtration rates lie between 5.5 and 13.6 m per hour.

**Water delivery:**

Four electric centrifugal pumps each with a delivery between 2,400 and 4,000 m<sup>3</sup> per hour and a pressure of 6.0 to 8.5 bar.

**Groundwater enrichment:**

Percolation of 20 million m<sup>3</sup> of water from the Havel previously treated in a surface treatment plant in percolation tanks and in natural trenches and ponds.



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