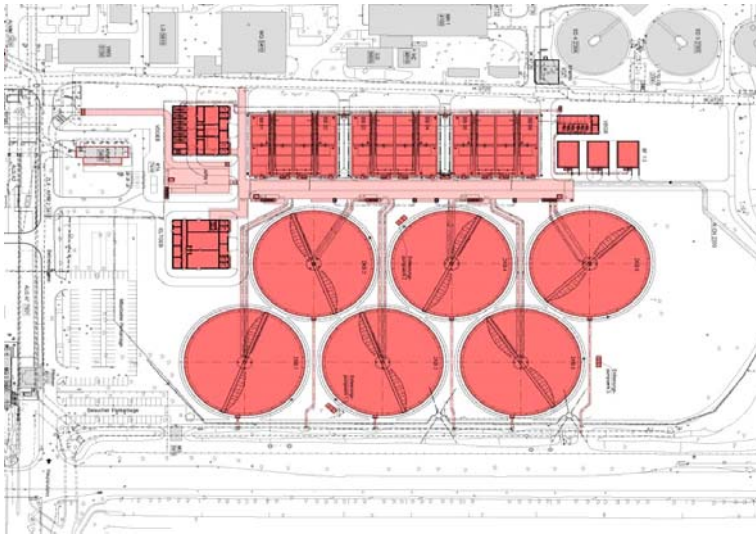


Munich

Gut Großlappen Sewage Treatment Plant Modernisation of the First Biological Stage



Client

Münchener Stadtentwässerung
[Munich Urban Drainage]

Period

since 2008

Project Cost

90.000.000 €

Abstract

The first biological stage of Großlappen sewage treatment plant has been operating for 40 years and presently does not meet the requirements set for a modern wastewater treatment process. The aeration tanks are technically defect and shall be replaced by new tanks. An intermediate settlement tank and a new inlet pumping structure should also be built. In order to implement an optimal concept for the entire technical process of denitrification, nitrification and phosphor elimination, the second biological stage shall be reconstructed through application of a new bypass pumping station.

Construction measures will be carried out during the plant's operation with a wastewater quantity of 6.67m³/h. Therefore, it is necessary to carry out the building measures in several construction phases.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, site supervision

process technology
basic evaluation

Technical Data

Capacity	2,000,000 PE
Dry weather flow, Q_t	6.67 m ³ /s
Combined wastewater flow, Q_m	10.00 m ³ /s
6 aeration tanks, each	5,300 m ³
6 intermediate settlement tanks	Ø 62 m
Wastewater pumping station 1	9.0 m ³ /s
Bypass pumping station	2.2 m ³ /s
Pumping and distributing structures	
Reconstruction of the second biological stage	
Deammonification for central treatment	