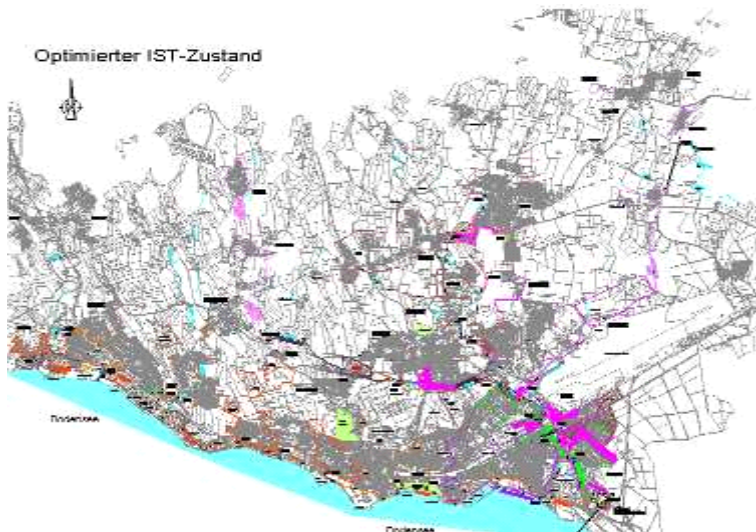


Friedrichshafen

Hydrodynamic Sewer Simulation Pollution Load Calculation



Client

Stadt Friedrichshafen /
Tiefbauamt [City of
Friedrichshafen / Department
of Civil Engineering]

Period

2003 - 2006

Project Cost

not specified

Abstract

Schlegel GmbH has been working out design and planning of a drainage system for the city of Friedrichshafen since decades. Baded on the environmental policies for Lake Constance, the lake's pollution load has to be kept as low as possible. Therefore, in order to improve the lake's condition, extensive reduction of impurities in the combined wastewater discharge have been carried out. Hydrodynamic sewer simulation and pollution load calculations have technically been the basis for the water right assignment. Optimisation of 31 discharge and wastewater treatment plants has also been carried out. Calculations have been based on the programmes SFBS and SMUSI.

Scope of Service

hydrodynamic calculation of sewer networks
pollution load calculation
water law procedures

Technical Data

Sewer length	210 km
Stormwater overflows	15
Stormwater tanks with overflow	12
Sewers with storage capacity and overflow	4
Available storage capacity	19,109 m ³
Allowable sewer volume	17,248 m ³
Storm water sedimentation tank	1
Pumping stations	2