

Bad Tölz

Bad Tölz Sewage Treatment Plant Sewage Disinfection



Regierungsbaumeister
SCHLEGEL



Client

Stadt Bad Tölz [City of Bad Tölz]

Period

1999 - 2000

Project Cost

615.000 €

Abstract

A UV-irradiation system has been installed for disinfecting of the purified sewage in the wastewater treatment plant of Bad Tölz. This system is built in an underground shaft as a unit after sand filtration and corresponds to the limit values set by the EC directive with regard to the bathing water quality. UV-irradiation takes place by low pressure mercury vapour lamps which are assembled in two irradiation units (banks), arranged and integrated to two parallel channels. The disinfection intensity can be controlled by connecting or disconnecting of channels or banks or by power regulation. The mercury vapour lamps are equipped with automatic cleaning systems. The equipment is considered as a pilot scheme in the State of Bavaria and has been planned in cooperation with a project working group.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, construction supervision, site
supervision
planning of structural framework
technical equipment

Technical Data

UV-irradiation with low pressure mercury vapour lamps

$Q_{t, \min}$	approx. 200 m ³ /h
$Q_{t, \max}$	1,117 m ³ /h
$Q_{m, \max}$	2,063 m ³ /h
Suspended solids	< 5 mg/l
Transmission	> 65 % per cm
Minimum exposure dose	400 J/m ²