

## Wastewater Collection and Discharge



The first step in wastewater disposal is the collection and conveyance of the wastewater - to the wastewater treatment plants. We carry out this facility planning on the basis of sewer cadastres, which serve as databases of existing conditions for the geometry as well as for built and hydraulic condition of the sewage system.

As a result of revisions to the water legislation in recent years, the separation of wastewater and stormwater is today compulsory. We transform existing combined wastewater collection systems into separated systems and modified, combined and separated sewer systems.

The problem of conveying the collected wastewater from contiguous catchment areas to central treatment plants is resolved with the use of gravity lines or force mains with upstream sewage pumping stations. With the help of sewage system calculations, we dimension these facilities. For large, meshed networks, we use hydrodynamic calculation models.

A comprehensive survey of the sewage network together with the stormwater treatment facilities

takes place as part of the general drainage planning.

To calibrate the models used, we frequently conduct quantitative and qualitative measurements in the sewage system.

## Services

- Wastewater disposal concepts
- General drainage planning
- Compilation of sewer cadastre
- Status survey and evaluation
- Rehabilitation concepts
- Hydrodynamic sewage system calculations
- Planning and refurbishment of mixed and separated sewer systems as per sewage system calculations
- Planning and refurbishment of qualified separated systems with stormwater treatment
- Refurbishment of existing networks
- Planning and refurbishment of connecting pipes and pipeline systems
- 1 Delivery of the tunneling machine
- 2 Tunneling