

IMMISSION-BASED ASSESSMENT OF DISCHARGE IN THE KAITZBACH (RIVER IN SAXONY)

Assignment

The water system Kaitzbach and Leubnitzbach as well as their tributaries are rivers which rise outside the city borders of Dresden. They are classified as second order water bodies and are characterised by strong urban interventions.

Several outfalls of outlets, operated by the city of Dresden, discharge to these rivers. Therefore, an immission-based assessment is carried out. The aim is to derive from these results qualitative and quantitative measures for waste water treatment.

According to the requirements of the European WFD directive and to the environmental agency of Dresden the verification is to be conducted on the guideline BWK M3. The resulting rehabilitation measures are aiming for a good ecological and good chemical status of the water bodies.

Based on these results, the discharge consents of the outfalls can be applied for.



Determination of the water pollution according to BWK M3 (Guideline)

Scope

- Analysis of measurements on the biological and chemical condition
- Preliminary study for applying the guideline BWK M3, determine the catchment area
- Assessment of the status of the water body
- Discussing application boundaries
- Baseline survey for the guideline, preparing sewer and water body data
- Technical calculations, preliminary review, verification calculation of immission, analysing results
- Optimization of the existing flood control reservoirs management
- Developing measures to reduce water protection deficits according to the European water framework directive
- Preparing discharge consents

Short description

Client Stadtentwässerung Dresden GmbH

Project period 2010

Fee 48.000 €

Characteristics

Verification according to guideline BWK M3 and determine measures according to the European water framework directive (EU-WRRLWFD)

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