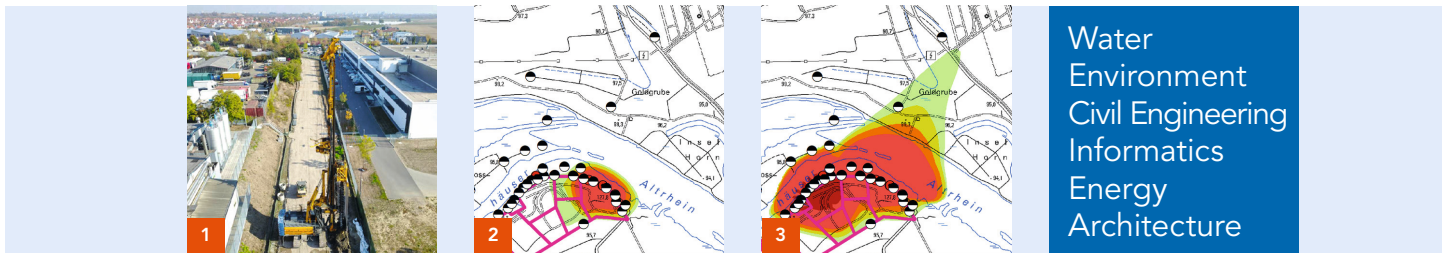


Contaminated Sites



Björnsen Consulting Engineers has many years of experience in dealing with environmental damage and is your reliable partner in the investigation, risk assessment, and remediation planning of contaminated soil and groundwater. We plan and implement your remediation measures and undertake both the technical supervision and the expert evaluation.

An important aspect of our planning is occupational health and safety. In addition to creating HSE plans, our specialists will also support you in conformity with DGUV rule 101-004 by serving as coordinators to monitor HSE compliance on construction sites.

The main emphases of our expertise and planning activities are flow and transport modeling and the remediation of soil, soil vapor, and groundwater. We evaluate hydrochemical relationships and, in so doing, determine natural degradation potentials in the subsoil.

Our highly motivated team will, whenever needed, help you to solve even the most complex tasks – always using innovative technology and supported by an extensive pool of software tools for modeling, analysis and evaluation of data, and visualization.

Services

- Project management
- Planning of investigation measures
- Risk assessments
- Seepage water prognoses as per BBodSchV
- Hydrochemical modeling
- Rehabilitation plans as per BBodSchG / BBodSchV
- Health and safety plans
- Construction supervision and safety coordination
- Planning and implementation of rehabilitation measures
- Conception and development of innovative rehabilitation procedures
- Operation and monitoring of rehabilitation equipment

Software

- PhreeqC, Visual Minteq
- Modflow, FEFLOW
- GeoDin, AQTESOLV
- Bioplume, Bioscreen, Biochlor
- ArcGIS, Surfer
- Oracle, Access

1 Remediation of contaminated sites

Construction of a mixed-in-place (MIP) cut-off wall

2-3 Transport modeling

Time series of density-influenced dispersion of substances in groundwater