

Closure and final rehabilitation of the Municipal Landfill Dänkriz

C&E · Consulting und
Engineering GmbH



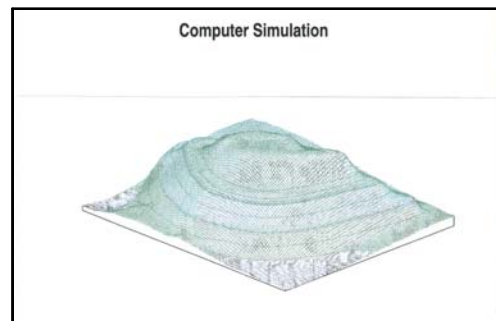
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Project objective: Closure and final rehabilitation of the Municipal Landfill Dänkriz in Saxony

Location: Dänkriz near Zwickau

Client: Regional Waste Management Centre Zwickau (ZAZ)

Period: 1999 – 12/2001 (phase 1)
3/2005 – 12/2006 (phase 2)



Description of Project and Services

Phase 1 - Closure

The existing unsecured municipal landfill was completely redesigned in phase 1. It had to be reshaped to meet the requirement of German waste regulation for a final surface sealing. In this process the entrance area was adjusted and a gas collection system with flare was installed. Finally an interim surface cover consisting of mineral soil was placed.

Technical Data:

- Profiling und interim cover with mineral soil
- Active degassing: gas wells, flare
- surface water collection and disposal
- total area: 12 ha
- final height: 38 m
- volume 1,14 Mio m³

Phase 2 - Rehabilitation

In phase 2 the final surface sealing was installed on the reshaped old landfill. A standard system according to TASI for landfill class II was realised reflecting best technical practise under consideration of economic criteria and the local situation. The drainage layer was replaced by a geotextile drainage element. Surface water and gas collection systems were adjusted. Installations for surface water drainage were already realised in phase 1. The Situation regarding a LHKW- groundwater contamination was analysed and remediation measures were ordered based on an overall risk assessment for the object.

Technical Data:

- removal of the interim cover (partially used as recultivation material)
- adjustment gas system; passive degassing
- adjustment of the surface water collection system
- final height: ca. 40 m
- Slope inclination: usually 1:4
- installation of control and monitoring systems

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Services provided:

- Feasibility Study incl. Survey, EIA
- Risk assessment
- Preliminary, Technical and Detailed Design according to FIDIC (Red Book)
- Preparation of Tender Documents
- Technical assistance during tendering and contracting of works including evaluation of offers
- Construction supervision according to FIDIC (Engineer)
- Site supervision
- "Safety on Site" - Monitoring