

## Remediation Glumequellwiese and Theisenschlamm-Mono- landfill Pond 10 in Helbra

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**Project target:** Cleaning of the area and remediation of water in the region of Glumequellwiese and the former collecting pond, as well as the reshaping and surface sealing of the Theisenschlamm-Mono-landfill Pond 10 (tailings).

**Location:** Helbra (Saxony-Anhalt)

**Client:** Middle German Remediation- and Waste Disposal Society

**Time period:** 2000 – 2001      **Investment costs:** about 2.1 Mill. €

### Initial situation:

The remediation complex consist of the Glumequellwiese and the tailings Mono-landfill Pond 10. In Glumequellwiese, with a total area of 4.7 ha (part covered with about 0.8 ha free water), about 20.000 m<sup>3</sup> tailings with various thickness are deposited. The ground water aquifer is seriously threatened by the tailings. The former tailings pond, Teich 10, constructed on a dump heap was used as a mono-landfill for tailings. The Pond 10 represent an environmental hazard, because the tailings lies open on the one hand, and owing to the fact that the pond is built on a dump heap on the other hand, infiltration water seeps out at the foot of the dump and is remitted in the Glumequellwiese.



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### Main tasks:

- Planning phases according to HOAI: Phases 2 to 6
- Environmental evaluation of present and final state, hydrology
- Stability and settlement calculations
- Surface water-and Infiltration water collection for possible contaminated water entering Glumequellwiese including the construction of a storage basin
- Reshaping the Sanderschächter dump in the foot area of Glumequellwiese.
- Elimination of free water and existing growth of reeds.
- Removing about 20.000 m<sup>3</sup> tailings in der Glumequellwiese with subsequent rehabilitation. Die tailings must be conditioned before the Transport to Pond 10.
- Fitting the tailings in Pond 10 up to the upper corner of the sealing of the basin.
- Reshaping Pond 10 with a maximum slope of 10 %
- Surface cover of about 3.0 ha with 1.0 m thick almost natural binding cover consisting of 0.8 m binding earth material and 0.2 m cultivated soil
- including drainage in the rehabilitated Glumequellwiese

