

# Planning of seeping water storage and drainage systems close to dams of industrial tailings ponds

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**Project target:** Prevention of seeping waters flowing out of the tailings ponds in the surrounding environment.

**Location:** Helmsdorf

**Client:** Wismut GmbH

**Beneficiary:** Wismut GmbH

**Time period:** 1997

## Initial situation:



Because of heavy incrustations respectively deformations in the pipes the existing drainage system was not efficient any more.

The collected seeping waters were diverted via open channel systems in an insufficiently sealed ground storage (storage of a pump station).



## Main tasks:

- Collectors of seeping waters as trenches with PE-HD-drainage pipes.
- Seeping water drainage as a gravity pipe (1,700 m PE-HD) including 40 shaft constructions with integrated inductive flowmeters.
- Ground PE-HD seeping water storages (2\*80 m<sup>3</sup>, 1\*40 m<sup>3</sup>) and 2 PE-HD pump shafts.
- Intake conduits (1000 m PE-HD) including gate shafts and revision constructions installed in shafts.
- Monitoring and supervision of the constructions.