

Pollutant discharge of sand and interlayered rock formations of the dump „Schüsselgrund“

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Objective: Investigation of pollutant discharge of sand and interlayered rock formations of the dump “Schüsselgrund”

Location: Königstein / Saxony

Client: WISMUT GmbH

Beneficiary: WISMUT GmbH

Year: 2003

Budget: 25.000 €



Initial Situation:

Background of the study is the preparation for the planning services for the final closure of the dump "Schlüsselgrund" of the branch office of Wismut GmbH in Königstein. Necessary for this are an actualization and a reevaluation of the pollutant potential of the waste dump and possibly the environmental effects connected with it. For the approx. 10 years stored temporarily, unleached bulk material are so far no statements available to the the pollutant potential and pollutant discharge character. This non leaching rock pile should be completely bonded in the dump within the remediation.

Services Provided:

- Solid analysis of sand and interlayered rock formations
- Analysis of 24h-eluates for the pollutant discharge in the different pH-sectors as well as batch experiments
- Column tests with different pH-values for the simulation of dump conditions
- Modelling of the pollutant discharge behaviour under the conditions of the waste dump (PHREEQC)

