

Buffering capacity of residuals from chemical treatment for flooding waters in Koenigstein, Saxony

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Project Objective: Investigation of the buffering capacity of residuals from the chemical treatment in the dump "Schüsselgrund"

Location: Koenigstein / Saxony

Client: WISMUT GmbH

Beneficiary: WISMUT GmbH

Year: 2003

Budget: 20.000 €

Initial Situation:

Within the remediation measures of the location Koenigstein the heavy metals and radionuclides were disposed from the water by the precipitation reactions.

The disposal of these residues was done on the dump „Schüsselgrund“, where the residues are stored in mixture with mining masses. It was to examine the long-term effects of the residual depositing from the chemical treatment on the geochemical system of the dump and the release of radionuclides.



Services Provided:

- Determination of the influencing factors on the buffering capacity/potential
- Determination of the relevant chemical and timely conditions for the release of pollutants
- Investigation of eluates and realisation of columns tests with different pH-values for the simulation of the conditions of the dump
- Modelling of the buffering capacity and behaviour of release of contaminants coming from the dump (PHREEQC)