

Water balance measurements and assessment of water balance economic effect of forest vegetation on the rehabilitated dumps during the remediation project of WISMUT GmbH

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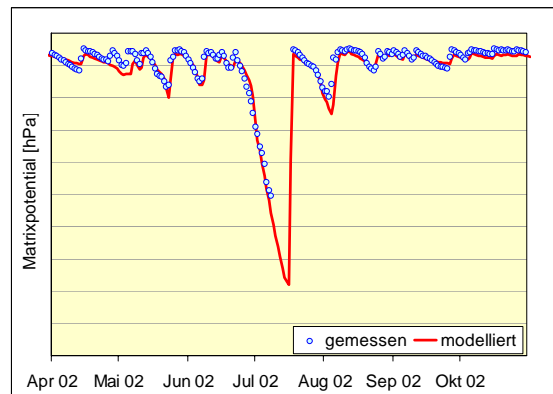
Project objective:

As part of the rehabilitation project the water balance measurements were carried out. On this basis it should be analysed the existing effects of remediation measures on the water balance of rehabilitated dumps. Furthermore, the measures of water balance effects of forest vegetation were worked out on the basis of forest hydrological measuring data provided by Saxon State Forestry Administration.

Location: Aue-Schlema
Client: Wismut GmbH
Beneficiary: Wismut GmbH
Year: 2002 – 2003
Budget: 60.000 €

Initial situation:

Previous studies on the water balance of the dumps of WISMUT GmbH in the mining area Schlema-Alberoda showed the deficits in the assessment of the positive effect of forest vegetation on the water balance. Decrease of the amount of waste water due to higher evaporation of forest vegetation processes could be quantified only with restrictions.



Services provided:

- Flow measurements, soil hydrological measurements, soil laboratory tests
- Collection and interpretation of measuring data
- Calibration of water balance models CoupModel (SOIL) using the measuring data
- Model transfer and prognosis of water balance effect of forest vegetation on the dumps