

Hydrogeological modelling of two spring catchments

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Objective: There was carried out a hydrogeological modelling for determination of the groundwater formation for the spring catchments Rausnitz (Middle Saxony) and Bad Linda, Reinhardtsquelle (Vogtländisches slate mountains)

Location: Saxony

Client: Saxon State Office for Environment and Geology (LfUG)

Beneficiary: LfUG

Year: 2004



Initial situation:

The groundwater formation in the consolidated rock will be calculated with the program GEOFEM in the Free State of Saxony. The objective of the project was to check the groundwater formation on the plausibility using the independent hydro-geological modelling in two spring catchments, calculated with the program GEOFEM. The calculation was carried out in steps: in the first stage the water balance of the catchment area (one-dimensional) has been determined, and then the groundwater formation has been calculated (two dimensional).



Services provided:

- Determination of water balance by means of water balance model
- Using of results of the water balance to calculate the groundwater formation
- The following steps were realized in processing each catchment area:
 - Model structure and parameterisation
 - Assessment model