Modelling of the groundwater flow in Baltic Artesian Basin Janis Virbulis, Juris Sennikovs, Uldis Bethers University of Latvia







EIROPAS SAVIENĪBA





INVESTING IN YOUR FUTURE

$$K_{\nu} \frac{\partial h}{\partial z} + Q = 0$$

Vertical section C-D from south to north



$$S_S \frac{\partial n}{\partial t} = \frac{\partial}{\partial x} \left(K_h \frac{\partial n}{\partial x} \right) +$$





water abstraction.

5. Conclusions

Generally the flow is directed from southeast to northwest. Local topography strongly influences the flow in shallow aquifers. Water budget of BAB is calculated. Calibrated transient model shows noticeable changes in water heads due to water abstraction.

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