



Field-Scale Tracer Experiment: Monitoring – Sampling – Analysis

C. Ulbrich, U. Wollschläger, K. Roth

Institute of Environmental Physics, University of Heidelberg, Germany

Two conservative tracers were applied to an area of 10 m² at the Grenzhof site. The movement of the first tracer, a high-concentration pulse of Cl, was monitored with a profile of automatic TDR-probes and with periodic GPR measurements from the surface. The second tracer, a low-concentration Br-pulse, was applied later and was chosen such that it was not visible in the TDR- and GPR-measurements. Finally, an L-shaped profile was excavated, sampled, and concentrations were analyzed in terms of spatial moments. We found a rather good agreement between the three methods, will present the results, and discuss the specific strengths and weaknesses of the approaches.