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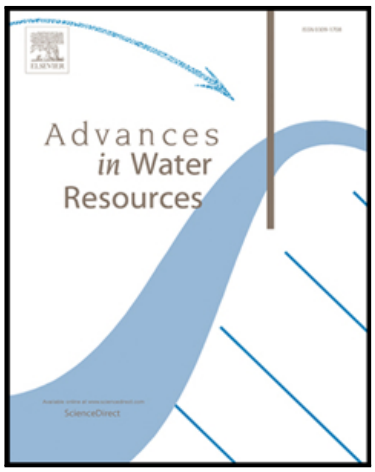

Evaluating the combined effects of source zone mass release rates and aquifer heterogeneity on solute discharge uncertainty

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Highlights

- New (semi-) analytical solutions for the solute discharge uncertainty
- Solution incorporates the effects of mass release at the source zone and natural heterogeneity
- The solutions developed are physically-based, computationally efficient and capable of propagating uncertainty from different parameters onto decision making
- Capable of computing safe setback distances as a function of key physical parameters and the maximum allowed probability of exceedance

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