

Interactive comment on “Quantification of pore-size spectrums by solute breakthrough curves” by S. Erşahin

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Thank you for your comment. The model developed in this study is valid for non-reactive chemicals (i.e. bromide, chloride, etc.). It is not valid for a reactive chemical since adsorption of reactive chemicals delays transport of chemical in pores. The model can be used to determine effective pore size distribution in any porous medium that yield a breakthrough curve of a nonreactive chemical. Therefore, the model can be used with clay soils. However, completing a miscible displacement test on a clay column may take very long time.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 8373, 2011.

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