

HLWYM HEmails

From: Stuart Stothoff
Sent: Tuesday, September 11, 2007 10:50 AM
To: Randall Fedors
Subject: FYI: figures on shared drive

Randy

I've put together a few figures in the process of doing the ITYM basis document that we should discuss. These are collected in your folder on the shared drive. Some of the figures do not have final labeling, although content is there.

I'd like to particularly draw your attention to figures on pages 3-6 and page 11. The first set superimpose CI-36 in the ESF over bulk fracture Ksat. The set of hits in the middle of the main drift appears to require lateral flow downdip of perhaps 400-500 m, lateral spreading of 200 m perpendicular to the dip direction, or significantly more infiltration within the Tcprn unit than is supported by our current fracture volume fractions for this unit (although we don't have much in the way of numbers for this unit...).

The figure on pg. 11 describes the effect of uncertainty on MAI for representative soil over soil-filled-fracture cases based on several units that are widely exposed. These describe ITYM values; I'd expect fairly similar results with estimates for fracture volume fraction even a couple of orders of magnitude larger. The effect of van Genuchten alpha (represented as capillary pressure) should be noted in particular. Note that retention properties are not considered in DOE models. The biggest impact of retention uncertainty would be on hillslopes, where median properties would suggest minimal MAI.

I'll give you a buzz in a while, or you can call back with questions when ready.

stu

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