

Table\_S4\_supplement. Deterministic models, area of usage, processes and method of modelling

Model	Flow & Transport											Method		
	2D	3D	vadose	Saturate d	Steady	Transien t	Advection	Dispersio n	Diffusio n	Anisotroph y	Heat	Finite Element	Finite Differ ence	Other
3DFATMIC		X	X	X	X	X (EL)	X	X	X	X	X	X (G, EL)		
BIOMOC3D	X	X		X		X	X	X		X			X	
BIOPLUME III	X		X	X	X	X	X	X	X				X (+MO C)	
BIOREDOX- MT3DMS		X		X	X	X	X	X	X	X			X	
BIOSLURP	X		X	X		X	X	X	X	X		X		
Chain 2D	X		X	X	X	X	X	X	X	X	X	X (G)		
CORT3D		X		X	X	X	X	X	X	X			X	
CTTRAN and SEEP/W	X		X	X	X	X	X	X	X	X		X		
FEFLOW	X	X	X	X	X	X	X	X	X	X	X	X		
FEHM	X	X	X	X	X	X	X	X	X	X	X	X		
Hydrus	X	X	X	X	X	X	X	X	X	X	X		X	
MT3D/MT3DMS		X		X	X	X	X	X	X	X			X	X EL, TVD
PFLOWTRAN	X	X	X	X	X	X	X	X	X		X			FV
PHREEQC				X		X	X	X	X	X *			X	X ADE
PHT3D		X		X	X	X	X	X	X	X	X**		X	X EL, TVD
RT3D		X		X	X	X	X	X	X	X	X		X	
SEAM3D		X		X	X	X	X	X	X	X			X	
SUTRA	X	X	X	X	X	X	X	X	X	X	X	X	X	
SWMS 2D/3D	X	X	X	X	X	X	X	X	X	X		X(G)		
TMVOC	X	X	X	X	X	X	X	X	X	X	X		X	
TOUGH2v2 and TOUGHREACT	X	X	X	X	X	X	X	X	X	X	X		X (I)	