

Parameter	Value
Freshwater density, $\rho_F$ ( $\text{kg m}^{-3}$ )	1000
Seawater density, $\rho_S$ ( $\text{kg m}^{-3}$ )	1025
Seawater mass fraction, $C_S$ (-)	0.035
Fluid viscosity, $\mu$ ( $\text{kg m}^{-1} \text{s}^{-1}$ )	$1 \times 10^{-3}$
Effective porosity, $\phi$ (-)	0.15
Specific storage, $S_S$ ( $\text{m}^{-1}$ )	0.01
Permeability, $k_B$ ( $\text{m}^2$ )	$1.77 \times 10^{-11}$
Molecular diffusion, $D_m$ ( $\text{m}^2 \text{s}^{-1}$ )	$1 \times 10^{-9}$
Longitudinal dispersivity, $\alpha_L$ (m)	5.0
Transverse dispersivity, $\alpha_T$ (m)	0.5