

COUPLED FLOW-TRANSPORT SIMULATION - MODEL SETUP

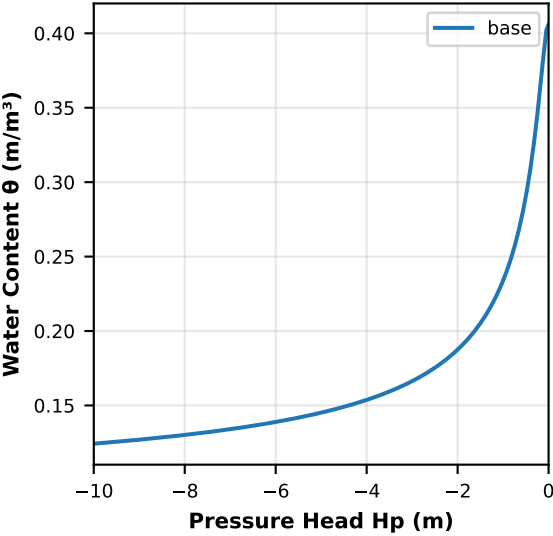
SIMULATION CONFIGURATION

Simulation Name: Transport\_Chloride  
Start Date: 2024-05-01 00:00  
End Date: 2024-12-30 00:00  
Duration: 5832.0 hours (243.0 days)  
Time Step: 7200.0 seconds (2.00 hours)  
  
Domain: 20.0 m × 5.0 m | Mesh: 80 × 40

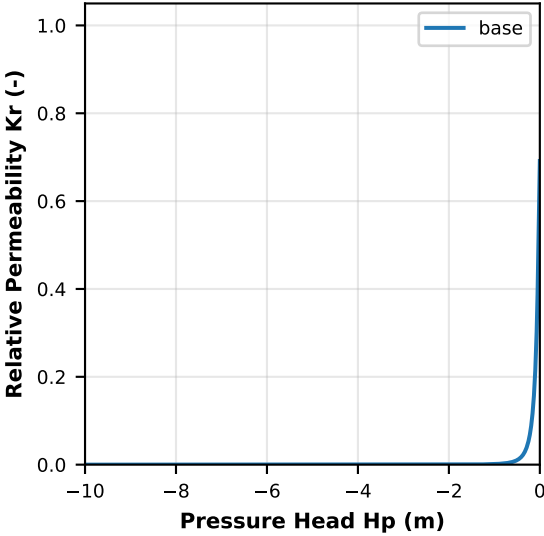
CONTAMINANT PROPERTIES

Contaminant: Chloride (Cl<sup>-</sup>)  
Application Rate: 0.1 kg/m<sup>2</sup>/hr  
Application Zone: Deicing zone (9-11m, surface)  
Application Duration: 1458.0 hours  
Dispersivity (α<sub>L</sub>): 0.05 m  
Bulk Density: 1600 kg/m<sup>3</sup>

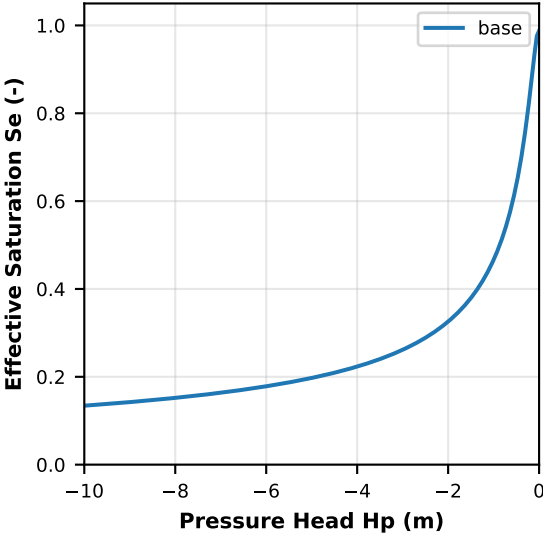
Water Content Curve



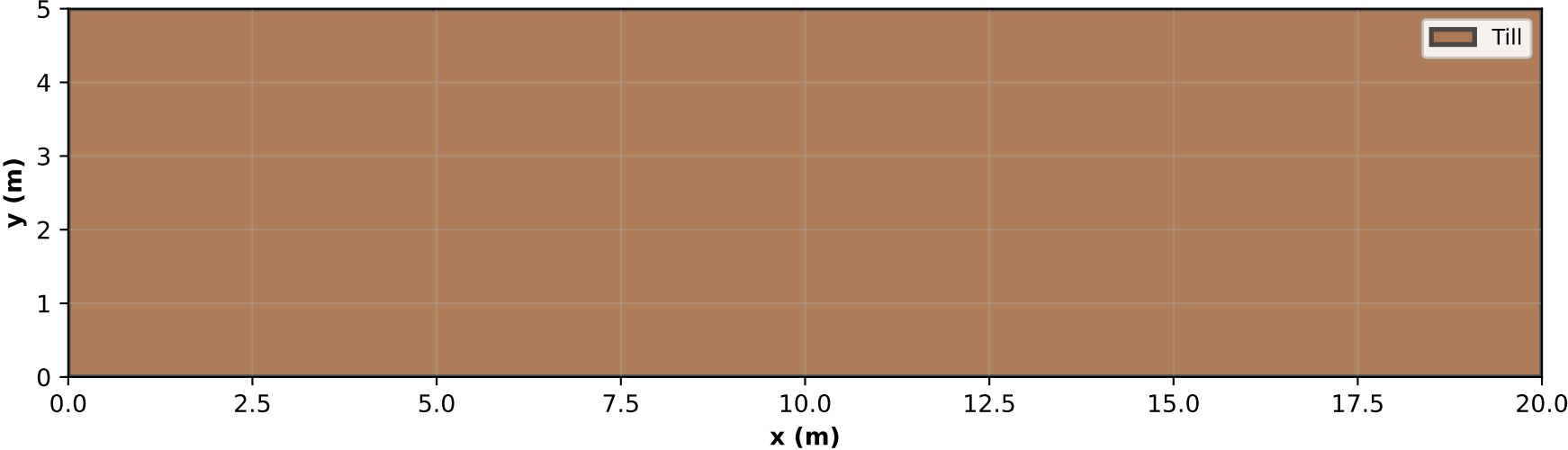
Relative Permeability Curve



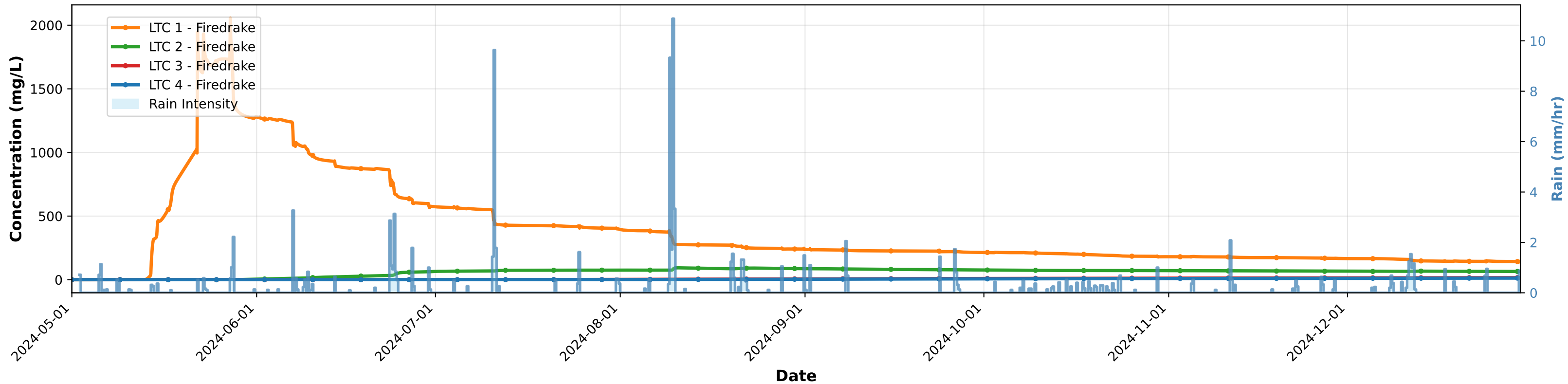
Effective Saturation Curve



Domain Geometry - Project Setup



# CONTAMINANT CONCENTRATION - TIME SERIES



# CONTAMINANT CONCENTRATION - SPATIAL DISTRIBUTION

