

# Soil and Groundwater Site Conceptual Model



1. The current chlorinated solvent distribution in the vadose zone in the approximate interval between 40 and 60 feet bgs needs further evaluation.
2. Once this interval is investigated, the following questions need to be answered:
  - Which chemicals are present in this interval and at what concentrations/ ratios?
  - Does the data demonstrate active dechlorination of TCE to Cis-1,2-DCE in the vadose zone?
3. If the data demonstrates that TCE is degrading to Cis-1,2-DCE in the vadose zone then subsequent leaching to groundwater can be considered a contributing source to the groundwater Cis-1,2-DCE plume.
4. If the data demonstrates that TCE is not degrading to Cis-1,2-DCE in the vadose zone then it is likely that dechlorination is occurring primarily within the groundwater bearing zone.

