



Notes:

Series of images depict cross-section view of a coastal margin aquifer showing equilibrium salinity distribution for a range of pumping rates. Pumping is 15000 feet inland from the coastal margin.

Model inflow includes constant head at upland margin and uniform recharge of 4 inches per year (25% of average rainfall). Summary description of the model is provided in Appendix B.

Uppermost image shows the equilibrium position of the saltwater/freshwater interface in the aquifer for the case without any pumping.

Model results suggest that saltwater intrusion becomes a likely problem when the pumping exceeds 50% of inflow.



MODELED SALINITY DISTRIBUTION FOR A RANGE OF PUMPING RATES

Nipomo Mesa Water Resource Capacity Study
San Luis Obispo County, California

Figure 21