Santa Susana Field Laboratory Session 7 of Groundwater U Handouts June 27, 2011





Water table near mountain top

About half of the groundwater originating on the SSFL discharges along slopes at seeps and phreatophytes, and no contaminants found offsite.

> Contaminants degrade or decay

Nearly immobile brackish water – relic ocean salt

Site Conceptual Model **Santa Susana Field Laboratory** 2850 acres located on top of a sandstone mountain

Annual rainfall 18.6 inches

Annual Recharge ~ 60 to 200 gpm

contaminant mass is in rock matrix

TCE is Deepest: no DNAPL remains now

interconnected, systematic fractures with small hydraulic apertures

Fresh water – ocean salt flushed away over millions of years



Schematic cross section with vertical exaggeration (Not-To-Scale) Prepared by SSFL Groundwater Panel



Poster Prepared by Kristina Small, G360, June 24th 2011